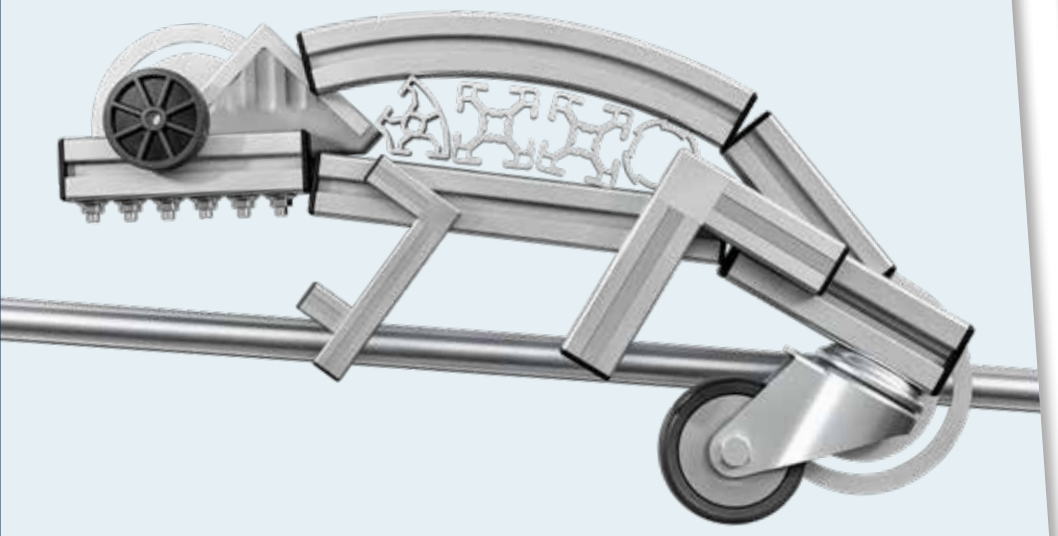
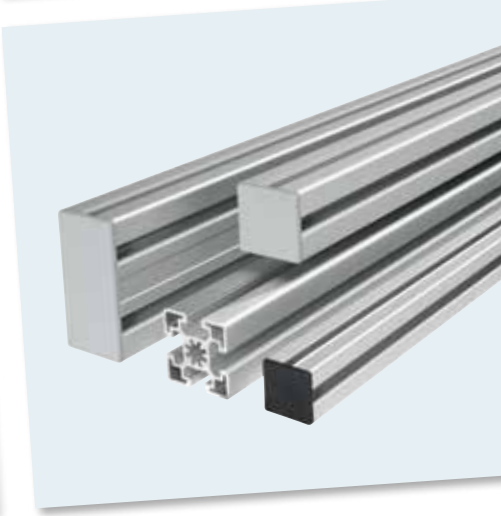
rexroth
A Bosch Company

# Basic mechanic elements 15.0









www.boschrexroth.com

# Explanations

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

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 | | 20 | **3 842 530 381** |

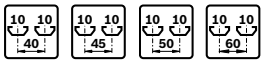
The product is delivered in packaging units (: in this case 20 units); i.e. the order quantity must at least equal the specified quantity or a multiple of it; differing quantities will be rounded up.
Order examples:
Order: 1 x 3 842 530 381 – delivery: 20 x brackets 50/50
Order: 20 x 3 842 530 381 – delivery: 20 x brackets 50/50
Order: 30 x 3 842 530 381 – delivery: 40 x brackets 50/50

| Threaded sleeve | No. |
|---|---|
| | **3 842 504 790** |

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

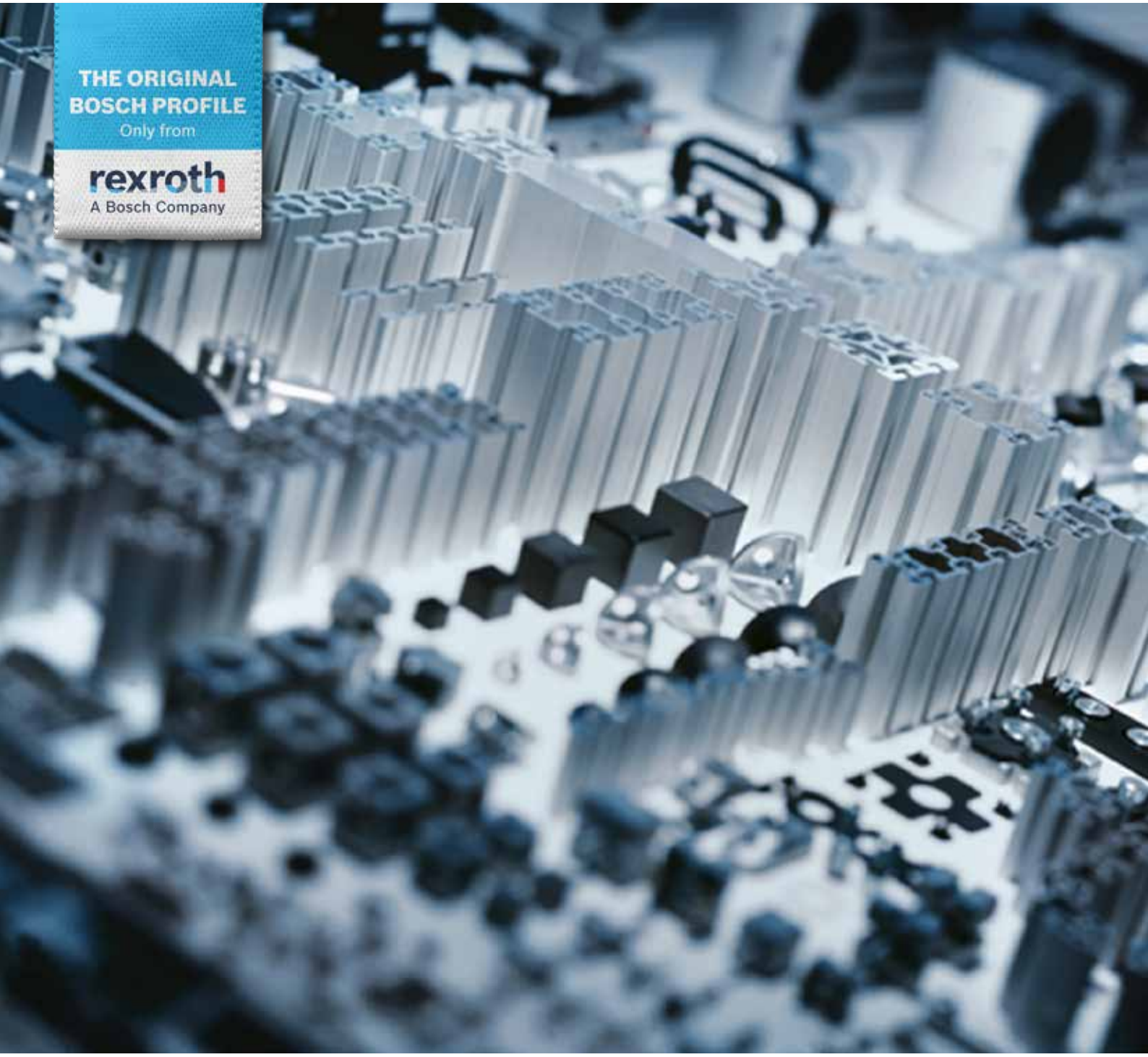
Screw with Torx profile

Weight

$F_{max}$ Permissible load (N)

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

# FRAME YOUR FACTORY – with the modular aluminum profile system




**Bosch Rexroth AG**, 3 842 540 392 (2025-10)

# 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

A wide selection of aluminum profiles, versatile connection elements, and a broad range of accessories combine to form a comprehensive portfolio that offers you utmost freedom to create innovative, safe, and productive solutions – 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



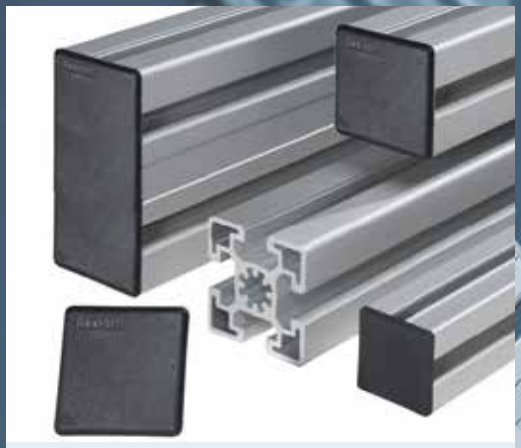
## *designLINE* – The perfect combination of quality and function

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.



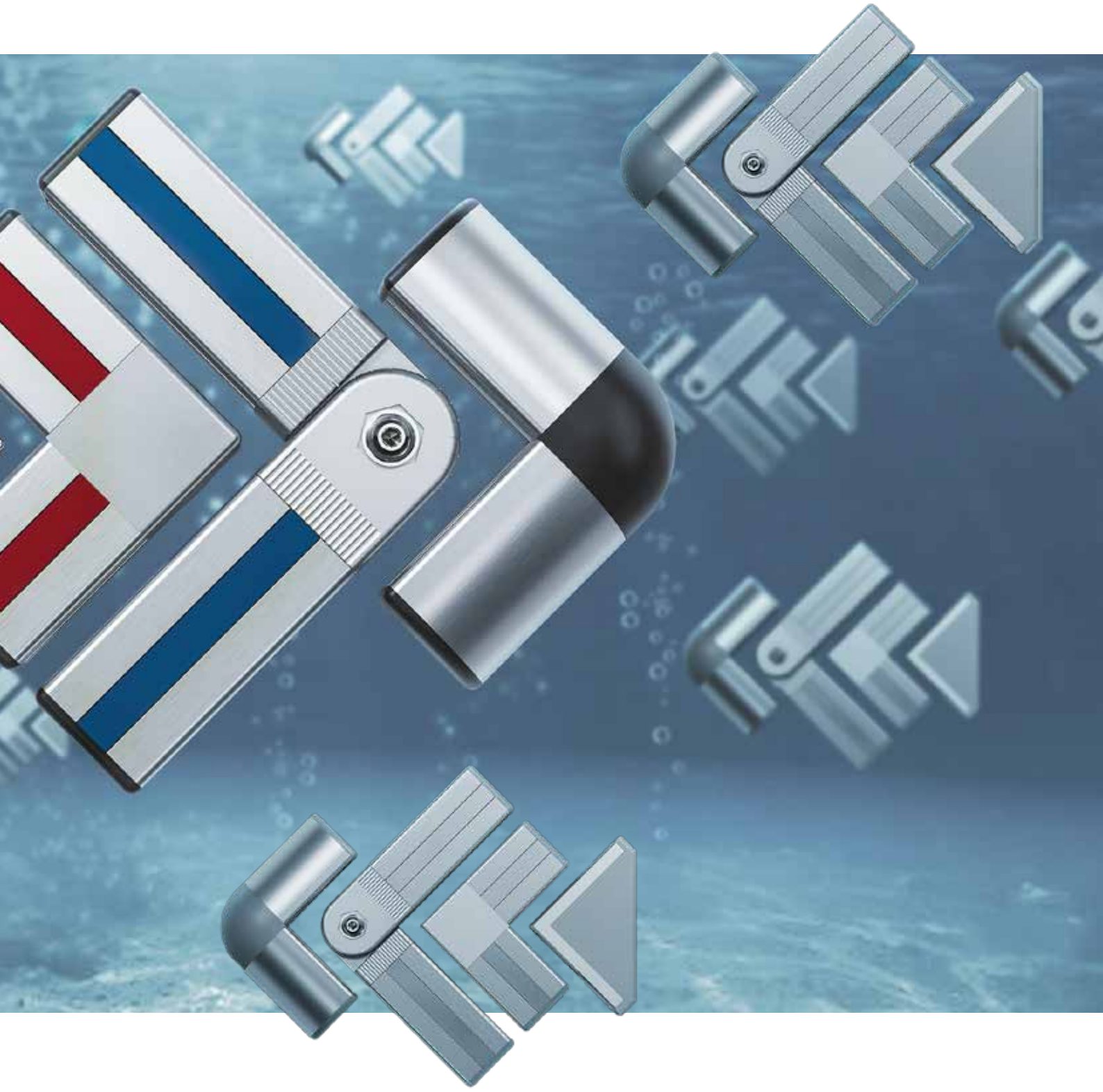
## Signal gray

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

Across its range, Bosch Rexroth offers a choice between standard grey accessories and ESD accessories in 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**

**professional**

**reliable**

# Systematic safety – playing it safe from the start




**For more information, visit:**
**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**

**Bosch Rexroth AG**, 3 842 540 392 (2025-10)



## 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**

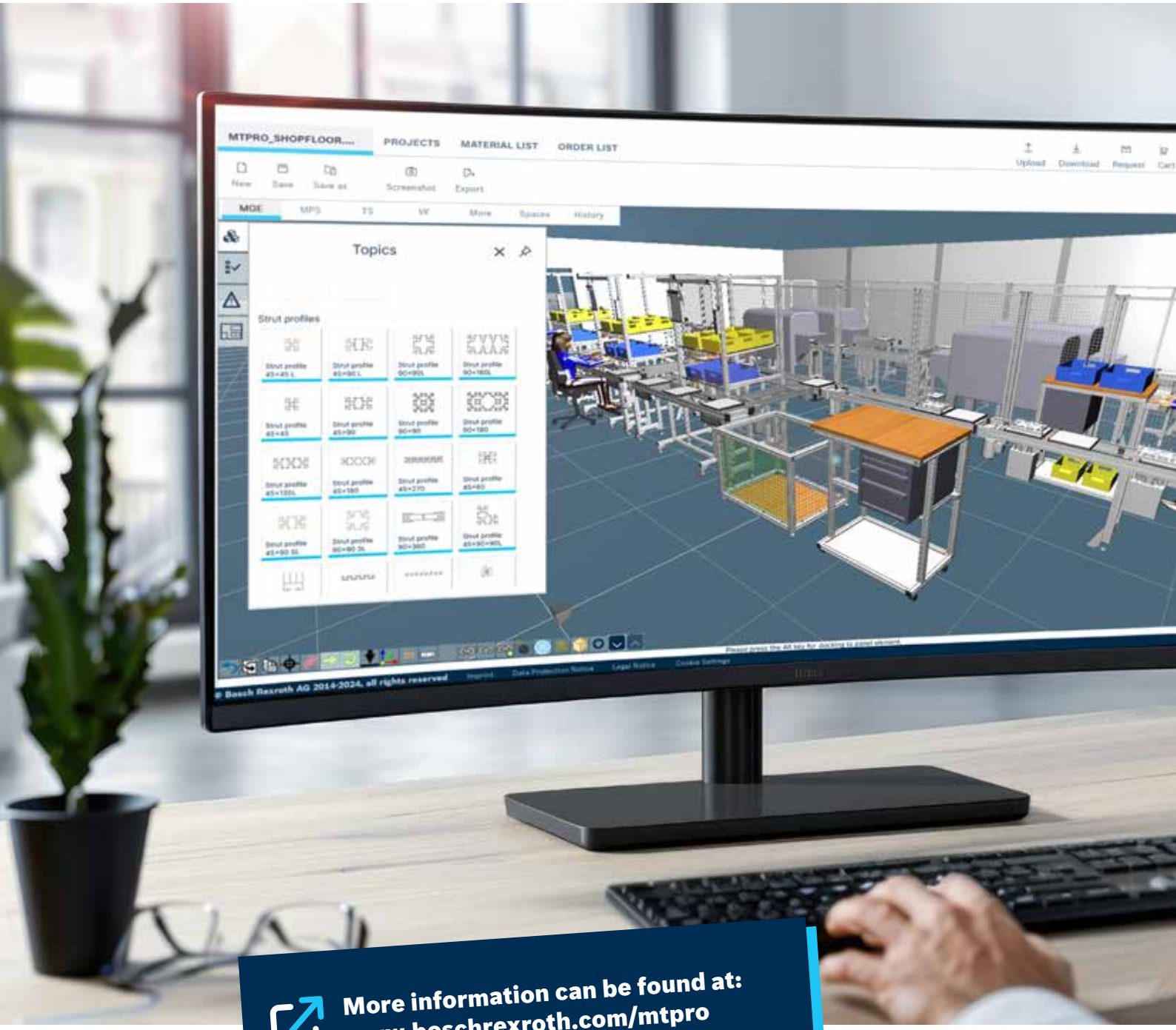
**Safe and error-free planning with 3D line models and intelligent design support functions**

**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**



## 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.



1

# 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**

# 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**



## 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.

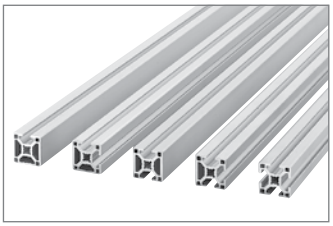
**www.boschrexroth.com/mps**

# Strut profiles

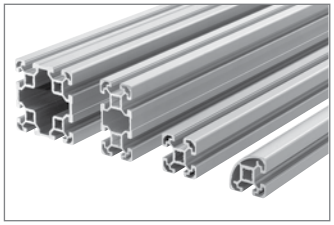




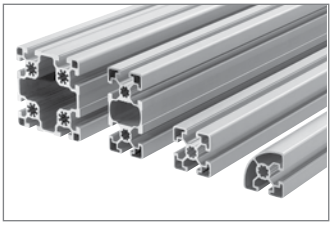
Strut profiles, 6 mm slot,
20 mm modular dimension
(p. 2-11)



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



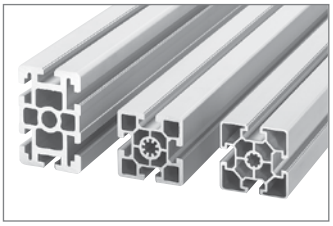
Strut profiles, 10 mm slot,
40 mm modular dimension
(p. 2-24)



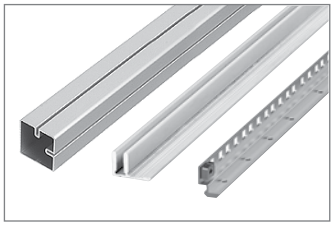
Strut profiles, 10 mm slot,
45 mm modular dimension
(p. 2-37)



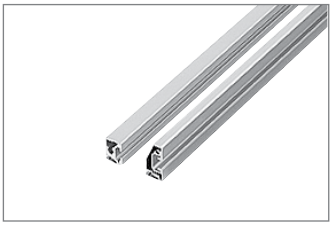
Strut profiles, 10 mm slot,
50 mm modular dimension
(p. 2-54)



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



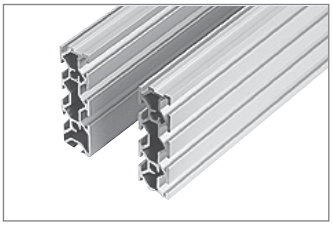
Rectangular tube (p. 2-58)
Clamping profile (p. 2-59)
Al angle profile 19″ (p. 2-60)



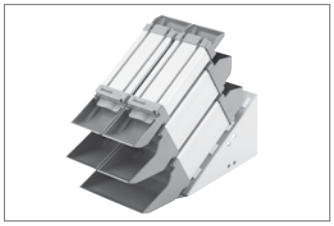
Frame profile
22.5x30 (p. 2-61)
22.5x45 (p. 2-62)



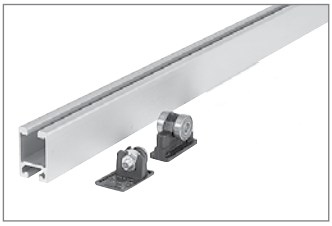
Angle profile (p. 2-63)
Suspension profile (p. 2-64)
Container mount (p. 2-65)



Slotted plate (p. 2-66)



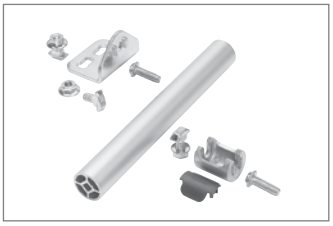
Material chute (p. 2-67)



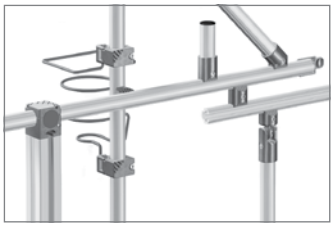
Profile rail (p.2-71)



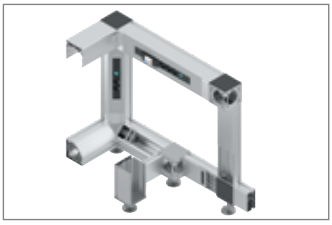
Profiles for installing
conveyor media (p. 2-72)



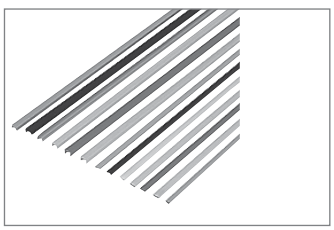
Round tube D28 (p. 2-75)
Strut profile D28x55
(p. 2-75)



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 load cases, Bosch Rexroth AG offers a wide product range for different requirements:

- 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.

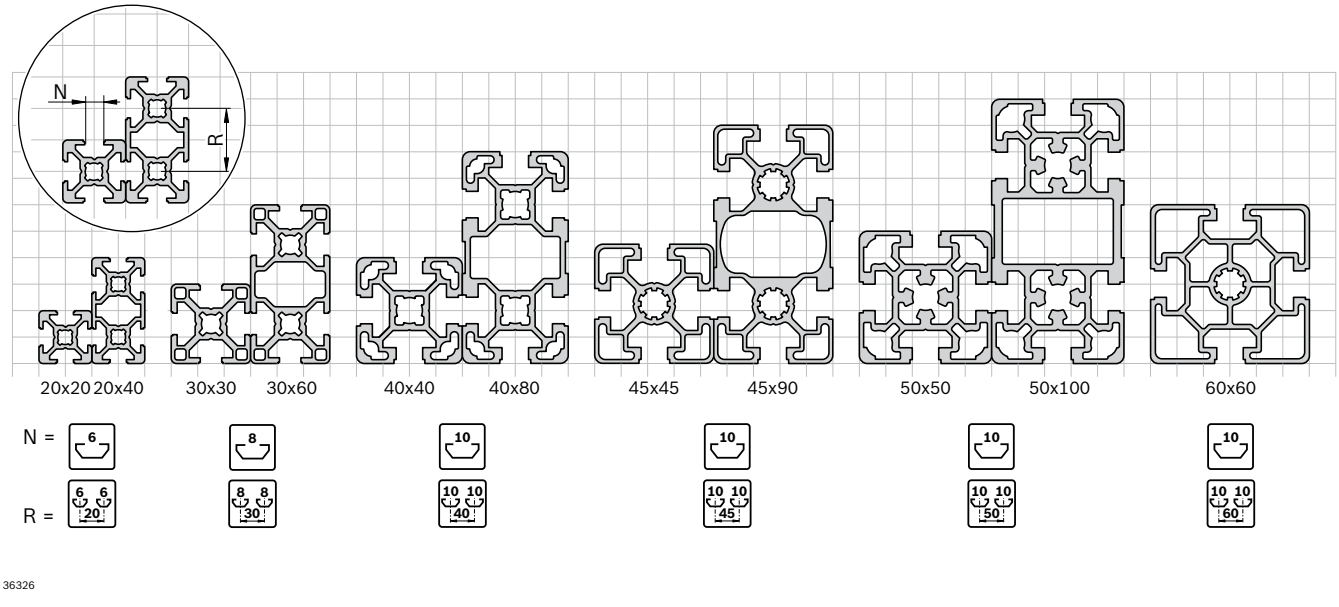
**Profile length in profile packaging units ( )**
The stated length of the profile packaging units relates to the guaranteed usable length.
During anodizing as part of the manufacturing process bare areas which are approx. 30 mm long are left at each end of the profile (= contact areas), so the profiles are generally supplied incorporating an excess length of 100 mm.

Example:

| **45x45L** | | **L** (mm) | **No.** |
|---|---|---|---|
| 20 pcs | | 6070 | **3 842 553 611** |

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

**Strut profiles – slot sizes and modular dimensions**




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 | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **A** ($cm^2$) | $I_x$ ($cm^4$) | $I_y$ ($cm^4$) | $W_x$ ($cm^3$) | $W_y$ ($cm^3$) | $I_t$ ($cm^4$) | $W_t$ ($cm^3$) | **m** (kg/m) | |
| **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 |

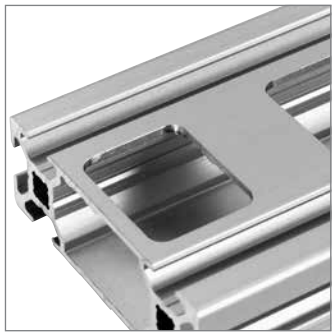
| Profile | | Slot | Profile surface | Moment of inertia | | Moment of resistance | | Torsion index | | Weight | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **A** ($cm^2$) | $I_x$ ($cm^4$) | $I_y$ ($cm^4$) | $W_x$ ($cm^3$) | $W_y$ ($cm^3$) | $I_t$ ($cm^4$) | $W_t$ ($cm^3$) | **m** (kg/m) | |
| **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 | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | A ($cm^2$) | $I_x$ ($cm^4$) | $I_y$ ($cm^4$) | $W_x$ ($cm^3$) | $W_y$ ($cm^3$) | $I_t$ ($cm^4$) | $W_t$ ($cm^3$) | m (kg/m) | |
| **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 | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **A** ($cm^2$) | $I_x$ ($cm^4$) | $I_y$ ($cm^4$) | $W_x$ ($cm^3$) | $W_y$ ($cm^3$) | $I_t$ ($cm^4$) | $W_t$ ($cm^3$) | **m** (kg/m) | |
| **100x100L** |  | 10 | 29.9 | 318.3 | 318.3 | 63.7 | 63.7 | 153.53 | 31.40 | 8.1 | 2-55 |
| **100x200L** |  | 10 | 54.0 | 2133.1 | 602.1 | 213.3 | 120.4 | 421.00 | 75.70 | 14.6 | 2-56 |
| **60x60L** |  | 10 | 9.6 | 32.4 | 32.4 | 10.8 | 10.8 | 13.20 | 8.70 | 2.6 | 2-56 |
| **60x60** |  | 10 | 14.4 | 52.2 | 52.2 | 17.4 | 17.4 | 15.90 | 8.80 | 3.9 | 2-57 |
| **60x90** |  | 10 | 25.8 | 214.2 | 90.5 | 47.6 | 30.2 | 45.80 | 18.00 | 7.0 | 2-57 |
| **50x50 Rectangular tube** |  | 10 | 4.5 | 15.1 | 15.1 | 5.7 | 5.7 | – | – | 1.2 | 2-58 |
| **Frame profile 22.5x30** |  | 10 | 3.2 | 1.7 | 3.0 | 1.5 | 2.0 | – | – | 0.9 | 2-61 |
| **Frame profile 22.5x45** |  | 10 | 3.4 | 6.7 | 1.7 | 2.8 | 1.3 | – | – | 0.9 | 2-62 |
| **Angle profile** |  | 10 | 4.5 | 8.8 | 6.9 | 3.2 | 2.3 | – | – | 1.2 | 2-63 |
| **Suspension profile** |  | 8 | 2.0 | 2.0 | 0.5 | 2.7 | 0.3 | – | – | 0.6 | 2-64 |
| **30x100 L/R Slotted plate** |  | 10 | 9.7 | 88.8 | 9.2 | 17.8 | 6.0 | – | – | 2.6 | 2-66 |
| **30x100 M Slotted plate** |  | 10 | 9.7 | 88.8 | 9.2 | 17.8 | 6.0 | – | – | 2.6 | 2-66 |
| **Profile rail 30x45C** |  | 10 | 4.4 | 10.3 | 5.6 | 4.2 | 3.7 | – | – | 1.2 | 2-71 |
| **U-profile** |  | 10 | 4.4 | 10.4 | 8.3 | 4.6 | 4.1 | – | – | 1.2 | 2-72 |
| **SP 2/R** |  | 8 | 5.2 | 4.3 | 11.7 | 2.4 | 5.2 | – | – | 1.4 | 2-72 |
| **SP 2/B** |  | 10 | 10.4 | 49.6 | 25.8 | 12.1 | 11.5 | – | – | 2.8 | 2-73 |
| **SP 2/B-50** |  | 8/10 | 6.9 | 16.1 | 16.9 | 5.3 | 7.5 | – | – | 1.9 | 2-73 |
| **SP 2/B-100** |  | 10 | 11.9 | 95.1 | 30.4 | 20.0 | 13.5 | – | – | 3.2 | 2-73 |
| **SP 2/BH** |  | 10 | 12.4 | 53.7 | 28.6 | 14.0 | 13.8 | – | – | 3.3 | 2-74 |
| **D28** |  | | 2.4 | 1.5 | 1.5 | 1.1 | 1.1 | – | – | 0.7 | 2-76 |
| **D28x55** |  | | 5.9 | 3.2 | 88.3 | 2.3 | 32.1 | – | – | 1.6 | 2-77 |
| **D28L** |  | | 1.8 | 1.3 | 1.3 | 1.0 | 1.0 | – | – | 0.5 | 2-80 |
| **D28L; N10** |  | | 2.6 | 1.0 | 2.0 | 1.4 | 0.8 | – | – | 0.7 | 2-80 |
| **60x120 Cable guide profile** |  | 10 | 14.9 | 31.2 | 232.5 | 7.8 | 38.7 | – | – | 4.0 | 2-100 |
| **120x120 Cable guide profile** |  | 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 | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | **A** ($cm^2$) | $I_x$ ($cm^4$) | $I_y$ ($cm^4$) | $W_x$ ($cm^3$) | $W_y$ ($cm^3$) | $I_t$ ($cm^4$) | $W_t$ ($cm^3$) | **m** (kg/m) | |
| **120x120 6N Cable guide profile** |  | 10 | 23.9 | 366.4 | 457.4 | 50.5 | 70.5 | – | – | 6.5 | 2-101 |
| **40x120x120 Cable guide profile** |  | 10 | 27.2 | 411.7 | 411.7 | 54.8 | 54.8 | – | – | 7.3 | 2-102 |
| **Frame profile 30x30 WG30** |  | 8 | 3.2 | 2.5 | 3.0 | 1.6 | 1.9 | – | – | 0.9 | 10-28 |
| **Frame profile 30x30 WG40** |  | 8 | 3.2 | 2.4 | 2.9 | 1.5 | 1.8 | – | – | 0.9 | 10-28 |
| **Frame profile 30x45 WG30** |  | 8 | 4.5 | 7.3 | 4.2 | 3.2 | 2.7 | – | – | 1.2 | 10-28 |
| **Frame profile 30x45 WG40** |  | 8 | 4.5 | 6.9 | 4.1 | 4.3 | 1.8 | – | – | 1.2 | 10-28 |
| **Frame profile 22.5x45 PG** |  | 10 | 3.4 | 6.3 | 1.9 | 2.7 | 1.7 | – | – | 0.9 | 10-32 |
| **Frame profile 45x45 PG** |  | 10 | 5.5 | 11.1 | 11.7 | 4.7 | 5.2 | – | – | 1.5 | 10-42 |
| **Section profile MV45x45** |  | 10 | 6.2 | 11.8 | 10.5 | 5.3 | 4.7 | – | – | 1.7 | 12-27 |







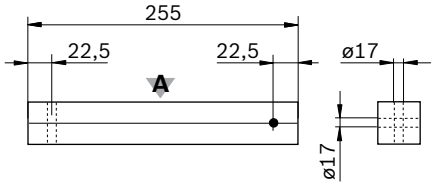


## Profile finishing

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:

**Example: 40x40L**

**3 842 993 126 / 255** D17 D17V

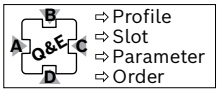


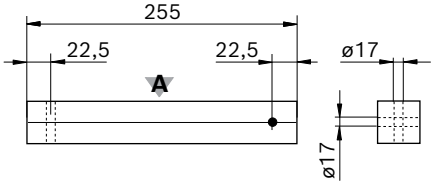

00133799

**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.

**Example: 40x40L 2N**

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



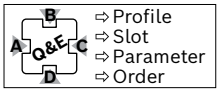



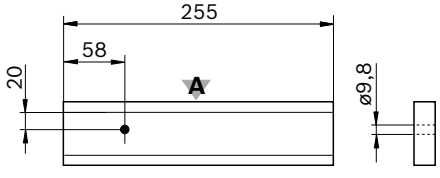

00133800

**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.

**Example: 20x60**

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




00133801

**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.

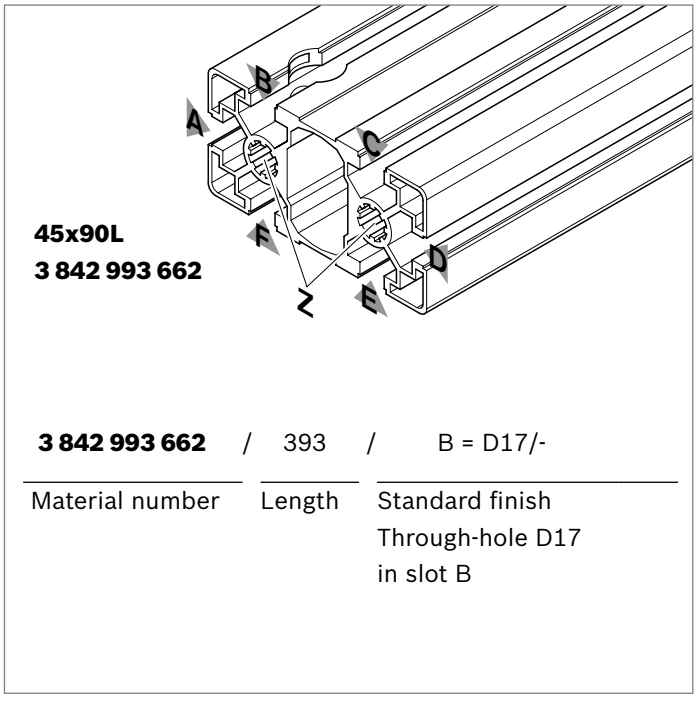


## MT*pro*, *FRAMEpro* and Rexroth Store – software tools for designers, planners, and buyers

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



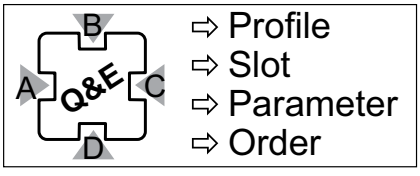

| **3 842 993 662** | / 393 | / B = D17/- |
|---|---|---|
| Material number | Length | Standard finish<br>Through-hole D17<br>in slot B |

## Quick & Easy – four steps for simple ordering

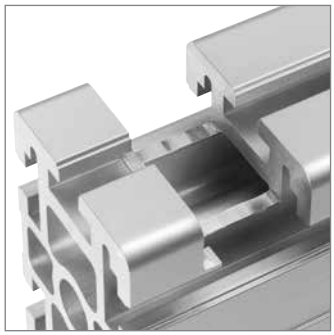
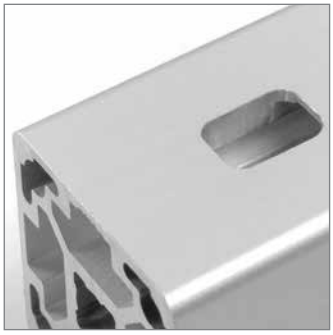
The type of profile finishing is defined in an order key; all finishes for a profile can be summarized in one order key.

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

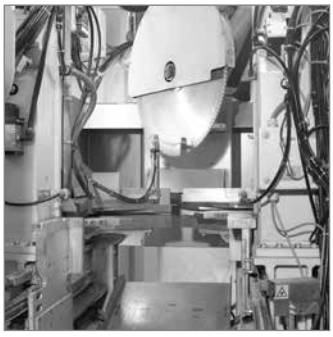
**Logical structure of the order key**
Material number / length / [slot designation = finishing; parameter set]




**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).

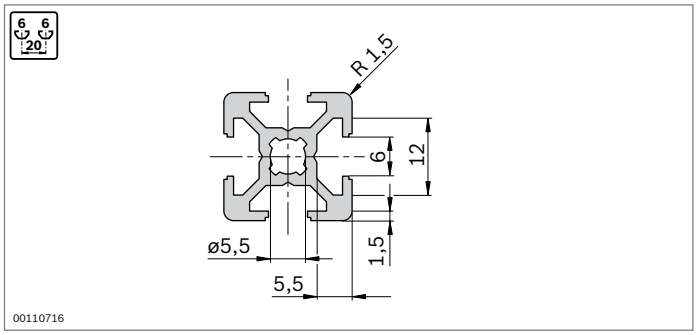
# Strut profiles with 6 mm slot

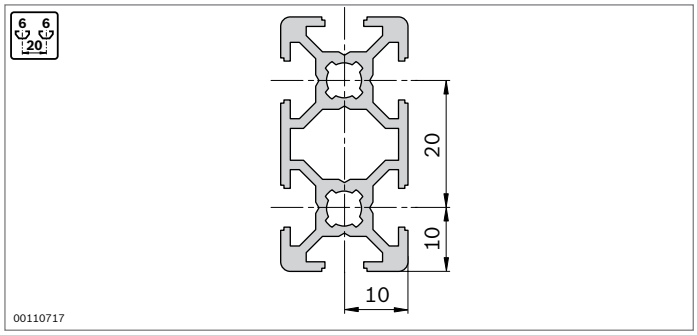


Strut profiles with 6 mm slot for light structures, such as supports and lab fixtures.

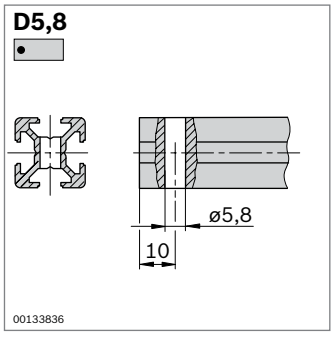
The 20x40 and 20x60 profiles are especially suitable for reinforcing; the 20x40x40 profile is suitable for constructing showcases, flow racks, and enclosures.

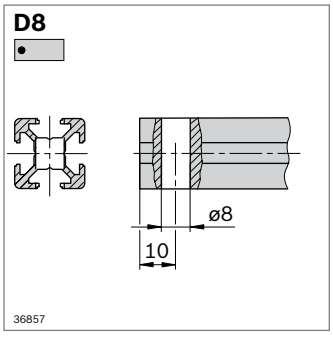
### Slot, modular dimensions, central bore

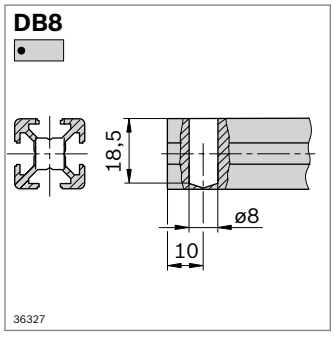


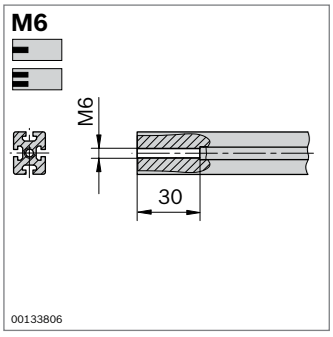




### Profile finishing




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

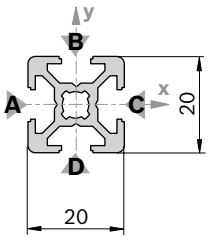
| | – | M6 | D5.8 | D8/DB8 |
|---|---|---|---|---|
| **–** | 50 | 50 | 50 | 50 |
| **M6** | 50 | 70 | 50 | 70 |
| **D5.8** | 50 | 50 | 50 | 50 |
| **D8/DB8** | 50 | 70 | 50 | 50 |

### 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 cm²
$I_x$ = 0,7 cm⁴
$I_y$ = 0,7 cm⁴
$W_x$ = 0,7 cm³
$W_y$ = 0,7 cm³
m = 0,4 kg/m




19168

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

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **20x20** (1x) | Signal gray | | 100 | **3 842 548 742** |
| **20x20** (1x) | Black | | 20 | **3 842 548 743** |
| Material: | PP | | | |

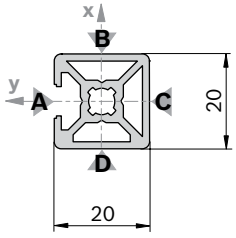
**Quick & Easy** (p. 2-8, see fold-out section)

| 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 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 335 / 370 mm

## 20x20 1N

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




19169

Cover cap: see 20x20

| 20x20 1N | | | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | | 50 ... 3000 | **3 842 993 421 / L** |
| 1 pc | | | 3000 | **3 842 536 476** |
| 20 pcs | | | 3000 | **3 842 536 475** |

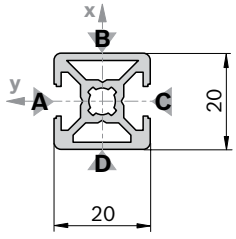
**Quick & Easy** (p. 2-8, see fold-out section)

| 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 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 335 / 370 mm

## 20x20 2N

A = 1,8 cm²
$I_x$ = 0,7 cm⁴
$I_y$ = 0,8 cm⁴
$W_x$ = 0,7 cm³
$W_y$ = 0,8 cm³
m = 0,5 kg/m




19170

Cover cap: see 20x20

| 20x20 2N | | | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | | 50 ... 3000 | **3 842 993 422 / L** |
| 1 pc | | | 3000 | **3 842 536 479** |
| 20 pcs | | | 3000 | **3 842 536 478** |

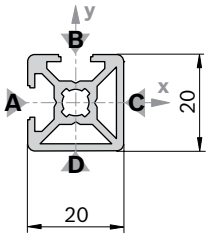
**Quick & Easy** (p. 2-8, see fold-out section)

| 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 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 335 / 370 mm

## 20x20 2NVS

A = 1,8 cm²
$I_x$ = 0,7 cm⁴
$I_y$ = 0,7 cm⁴
$W_x$ = 0,7 cm³
$W_y$ = 0,7 cm³
m = 0,5 kg/m




19171

Cover cap: see 20x20

| 20x20 2NVS | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 3000 | **3 842 992 924 / L** |
| 1 pc | | 3000 | **3 842 519 657** |
| 20 pcs | | 3000 | **3 842 519 658** |

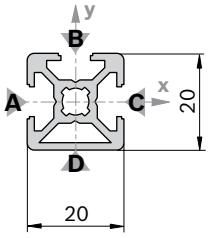
**Quick & Easy** (p. 2-8, see fold-out section)

| 20x20 2NVS | 3 842 993 692 / .... |
|---|---|
| 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 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 335 / 370 mm

## 20x20 3N

A = 1,7 cm²
$I_x$ = 0,7 cm⁴
$I_y$ = 0,8 cm⁴
$W_x$ = 0,7 cm³
$W_y$ = 0,7 cm³
m = 0,5 kg/m




19172

Cover cap: see 20x20

| 20x20 3N | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 3000 | **3 842 992 889 / L** |
| 1 pc | | 3000 | **3 842 517 174** |
| 20 pcs | | 3000 | **3 842 517 180** |

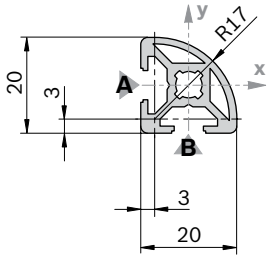
**Quick & Easy** (p. 2-8, see fold-out section)

| 20x20 3N | 3 842 993 693 / ... |
|---|---|
| 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 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 335 / 370 mm

## 20x20 R

A = 1,6 cm²
$I_x$ = 0,6 cm⁴
$I_y$ = 0,6 cm⁴
$W_x$ = 0,5 cm³
$W_y$ = 0,5 cm³
m = 0,4 kg/m




19173

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **20x20 R** (1x) | Signal gray | | 20 | **3 842 548 826** |
| **20x20 R** (1x) | Black | | 20 | **3 842 548 827** |
| Material: | PP | | | |

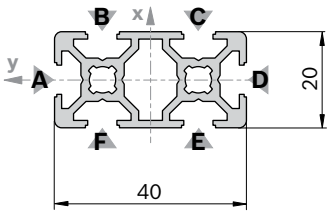
| 20x20 R | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 3000 | **3 842 992 890 / L** |
| 1 pc | | 3000 | **3 842 517 177** |
| 20 pcs | | 3000 | **3 842 517 183** |

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

| 20x20 R | 3 842 993 695 / .... |
|---|---|
| Length L (mm) | 50 ... 3000 |
| Standard profile finishing (note minimum length, p. 2-11) | M6 |
| Individual profile finishing ($L_{max\ i}$ = 2300 mm) | – |

## 20x40

A = 2,9 cm²
$I_x$ = 4,6 cm⁴
$I_y$ = 1,2 cm⁴
$W_x$ = 2,5 cm³
$W_y$ = 1,4 cm³
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 | | | |

| 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 D8 | 50 ... 3000 | **3 842 993 499 / L** |
| 1 pc | D8 D8V | 50 ... 3000 | **3 842 993 500 / L** |
| 1 pc | D8V | 50 ... 3000 | **3 842 993 498 / L** |
| 1 pc | D8V 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

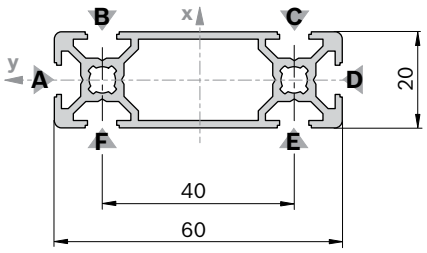
**Quick & Easy** (p. 2-8, see fold-out section)

| 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 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 370 / 440 mm

## 20x60

A = 3,5 cm²
$I_x$ = 14,2 cm⁴
$I_y$ = 1,7 cm⁴
$W_x$ = 4,7 cm³
$W_y$ = 1,7 cm³
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 | | | |

| 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** |

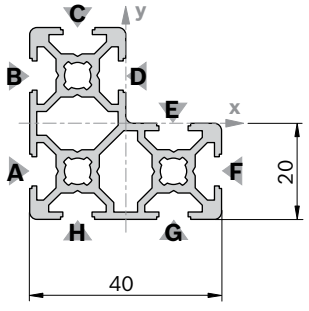
**Quick & Easy** (p. 2-8, see fold-out section)

| 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)[1] / D8 (B,C,E,F)[1] / DB8 |
| Individual profile finishing ($L_{max\ i}$ = 2300 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2] |

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 404 /508 mm

## 20x40x40

A = 4,2 cm²
$I_x$ = 6,0 cm⁴
$I_y$ = 6,0 cm⁴
$W_x$ = 2,6 cm³
$W_y$ = 2,6 cm³
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 | | | |

| 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** |

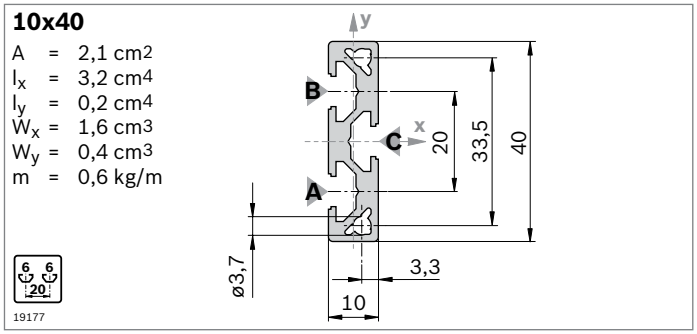
**Quick & Easy** (p. 2-8, see fold-out section)

| 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 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 370 / 440 mm

**10x40**

A = 2,1 cm²
$I_x$ = 3,2 cm⁴
$I_y$ = 0,2 cm⁴
$W_x$ = 1,6 cm³
$W_y$ = 0,4 cm³
m = 0,6 kg/m




19177

| 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)

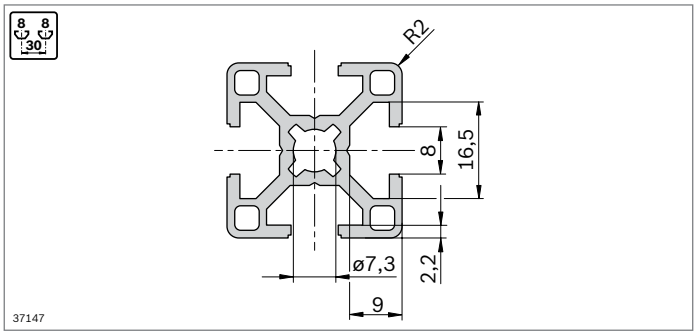
| 10x40 | 3 842 993 683 / ... |
|---|---|
| Length L (mm) | 50 ... 3000 |
| Standard profile finishing (note minimum length, p. 2-11) | D5.8 / D8 |
| Customized profile finishing | – |

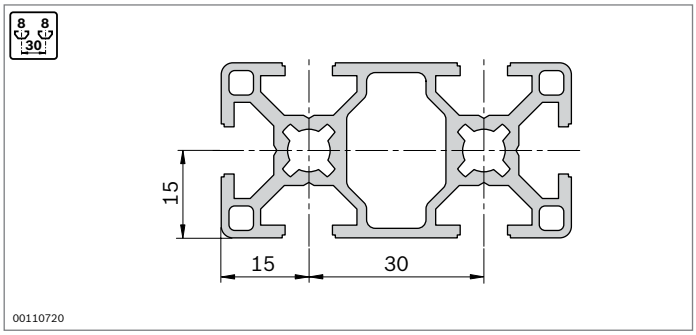
# Strut profiles with 8 mm slot

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

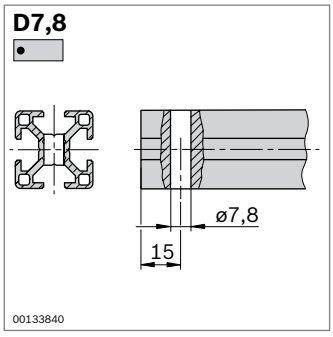
Profile 30x60x60 is suitable for constructing showcases and flow racks. Attractive covers and hoods can be designed with radius profiles.

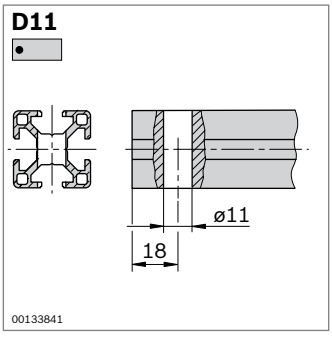
### Slot, modular dimensions, central bore

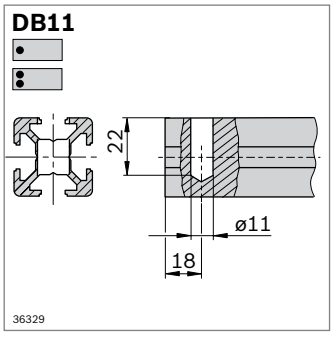


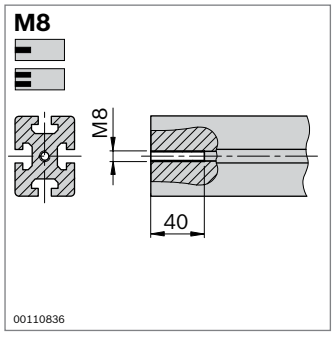




### Profile finishing




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

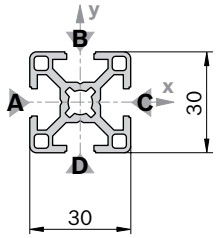
| | – | M8 | D7.8 | D11/DB11 |
|---|---|---|---|---|
| **–** | 50 | 50 | 50 | 50 |
| **M8** | 50 | 80 | 62 | 70 |
| **D7.8** | 50 | 62 | 60 | 50 |
| **D11/DB11** | 50 | 70 | 50 | 60 |

### 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 cm²
$I_x$ = 2,8 cm⁴
$I_y$ = 2,8 cm⁴
$W_x$ = 1,8 cm³
$W_y$ = 1,8 cm³
m = 0,9 kg/m




19178

| 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 $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 / D7.8 / D11 / DB11 |
| Individual profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 352 / 404 mm

| 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 | | | |

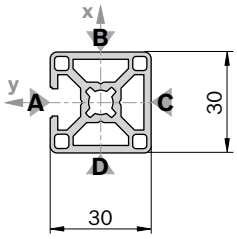
| Cover cap ZN | ESD | No. | FS |
|---|---|---|---|
| **30x30-ZN** | ⚠ | **3 842 518 204** | FS1 |
| Material: | Cover cap: Diecast zinc<br>Fastening material: Steel; zinc-plated | | |

**FS1**

DIN 7991 M4x16

## 30x30 1N

A = 3,7 cm²
$I_x$ = 3,1 cm⁴
$I_y$ = 3,5 cm⁴
$W_x$ = 2,0 cm³
$W_y$ = 2,3 cm³
m = 1,0 kg/m




19179

Cover cap: see 30x30

| 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** |

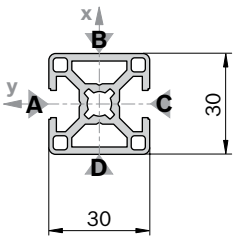
**Quick & Easy** (p. 2-8, see fold-out section)

| 30x30 1N | 3 842 993 704 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 / D7.8 / D11 / DB11 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 352 / 404 mm

## 30x30 2N

A = 3,5 cm²
$I_x$ = 2,8 cm⁴
$I_y$ = 3,5 cm⁴
$W_x$ = 2,1 cm³
$W_y$ = 2,7 cm³
m = 1,0 kg/m




19180

Cover cap: see 30x30

| 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** |

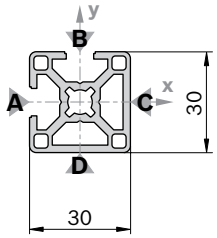
**Quick & Easy** (p. 2-8, see fold-out section)

| 30x30 2N | 3 842 993 705 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 / D7.8 / D11 / DB11 |
| Individual profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 352 / 404 mm

## 30x30 2NVS

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




19181

Cover cap: see 30x30

| 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** |

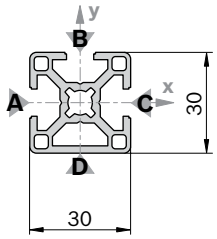
**Quick & Easy** (p. 2-8, see fold-out section)

| 30x30 2NVS | 3 842 993 706 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 / D7.8 / D11 / DB11 |
| Individual profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 352 / 404 mm

## 30x30 3N

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




19182

Cover cap: see 30x30

| 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** |

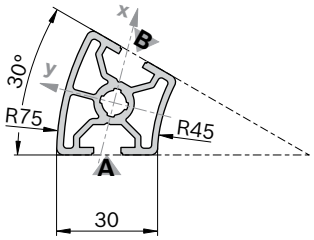
**Quick & Easy** (p. 2-8, see fold-out section)

| 30x30 3N | 3 842 993 707 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 / D7.8 / D11 / DB11 |
| Individual profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 352 / 404 mm

## 30x30°

A = 3,7 cm²
$I_x$ = 3,5 cm⁴
$I_y$ = 3,6 cm⁴
$W_x$ = 2,0 cm³
$W_y$ = 1,9 cm³
m = 1,0 kg/m




19183

| 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** |

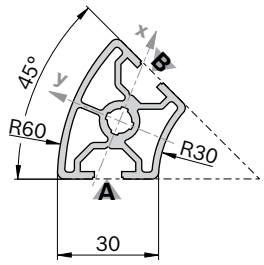
**Quick & Easy** (p. 2-8, see fold-out section)

| 30x30° | 3 842 993 708 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 |
| Customized profile finishing | – |

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

## 30x45°

A = 4,0 cm²
$I_x$ = 3,6 cm⁴
$I_y$ = 5,1 cm⁴
$W_x$ = 2,1 cm³
$W_y$ = 2,3 cm³
m = 1,1 kg/m




19184

| 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** |

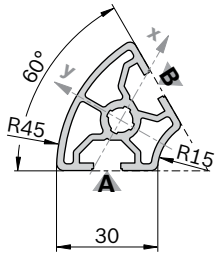
**Quick & Easy** (p. 2-8, see fold-out section)

| 30x45° | 3 842 993 711 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 |
| Customized profile finishing | – |

| 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 cm²
$I_x$ = 3,0 cm⁴
$I_y$ = 4,1 cm⁴
$W_x$ = 1,7 cm³
$W_y$ = 1,9 cm³
m = 1,0 kg/m




19185

| 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** |

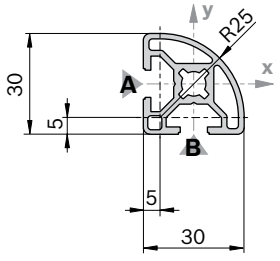
**Quick & Easy** (p. 2-8, see fold-out section)

| 30x60° | 3 842 993 714 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 |
| Customized profile finishing | – |

| 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 cm²
$I_x$ = 2,3 cm⁴
$I_y$ = 2,3 cm⁴
$W_x$ = 1,4 cm³
$W_y$ = 1,4 cm³
m = 0,8 kg/m




19186

| 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** |

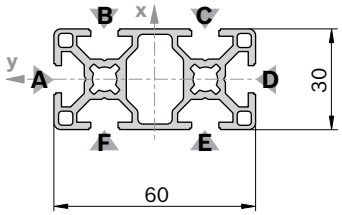
**Quick & Easy** (p. 2-8, see fold-out section)

| 30x30 R | 3 842 993 709 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-15) | M8 / DB11 |
| Customized profile finishing | – |

| 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 | | | |

## 30x60

A = 5,5 cm²
$I_x$ = 19,6 cm⁴
$I_y$ = 5,1 cm⁴
$W_x$ = 7,0 cm³
$W_y$ = 3,9 cm³
m = 1,5 kg/m




19187

| 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

| 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 | ESD | 20 | **3 842 548 745** |
| **30x60** (1x) | Black | ESD | 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 | ESD | 20 | **3 842 548 775** |
| Material: | PP | | | |

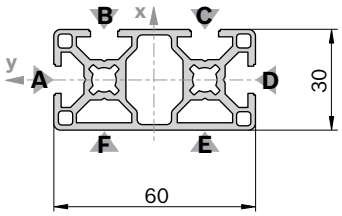
**Quick & Easy** (p. 2-8, see fold-out section)

| 30x60 | 3 842 993 712 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 / D7.8 / D11 / DB11 |
| Individual profile finishing ($L_{max\,i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 404 / 508 mm

## 30x60 4N

A = 5,8 cm²
$I_x$ = 20,2 cm⁴
$I_y$ = 5,5 cm⁴
$W_x$ = 6,7 cm³
$W_y$ = 3,8 cm³
m = 1,6 kg/m




19188

Cover cap: see 30x60

| 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** |

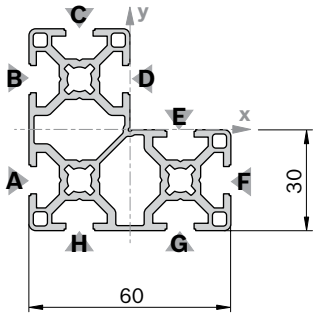
**Quick & Easy** (p. 2-8, see fold-out section)

| 30x60 4N | 3 842 993 713 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 / D7.8 / D11 / DB11 |
| Individual profile finishing ($L_{max\,i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 404 / 508 mm

## 30x60x60

A = 8,2 cm²
$I_x$ = 26,2 cm⁴
$I_y$ = 26,2 cm⁴
$W_x$ = 7,6 cm³
$W_y$ = 7,6 cm³
m = 2,2 kg/m




19189

| 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)

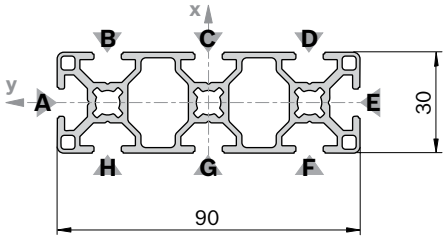
| 30x60x60 | 3 842 993 715 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 / D7.8 / D11 / DB11 |
| Individual profile finishing ($L_{max\,i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 404 / 508 mm

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

## 30x90

A = 7,7 cm²
$I_x$ = 60,7 cm⁴
$I_y$ = 7,3 cm⁴
$W_x$ = 13,5 cm³
$W_y$ = 4,9 cm³
m = 2,1 kg/m




19190

| 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 $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 / D7.8 (B,C,D,F, G,H)[1]/ D11 (B,C,D, F,G,H)[1] / DB11 |
| Individual profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2] |

[1] For the specified slots

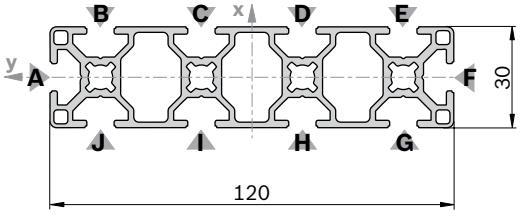
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 150 / 150 mm

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **30x30** (3x) | Signal gray | | 100 | **3 842 548 744** |
| **30x30** (3x) | Black | ESD | 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 | ESD | 20 | **3 842 548 775** |
| Material: | PP | | | |

## 30x120

A = 9,9 cm²
$I_x$ =136,3 cm⁴
$I_y$ = 9,6 cm⁴
$W_x$ = 22,7 cm³
$W_y$ = 6,4 cm³
m = 2,7 kg/m




19191

| 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 $L_{max}$ = 6000 mm (note minimum length, p. 2-16) | M8 / D7.8 (B,C,D,E, G,H,I,J)[1] / D11 (B,C,D, E,G,H,I,J)[1] / DB11 |
| Individual profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2] |

[1] For the specified slots

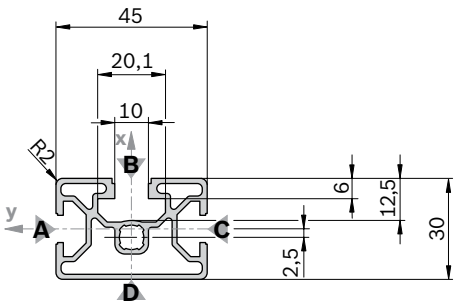
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 150 / 150 mm

| 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 | ESD | 20 | **3 842 548 745** |
| **30x60** (2x) | Black | ESD | 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 | ESD | 20 | **3 842 548 775** |
| Material: | PP | | | |

## 30x45

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




19192

| 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** |

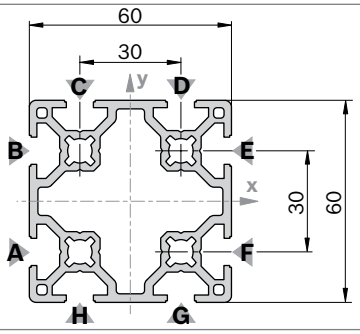
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 378 / 456 mm

## 60x60 8N

A = 9,8 cm²
$I_x$ = 39,7 cm⁴
$I_y$ = 39,7 cm⁴
$W_x$ = 13,2 cm³
$W_y$ = 13,2 cm³
m = 2,6 kg/m




19193

| 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** |

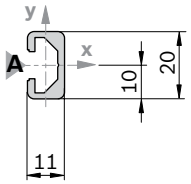
**Quick & Easy** (p. 2-8, see fold-out section)

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

[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 404 / 508 mm

## 11x20

A = 1,0 cm²
$I_x$ = 0,5 cm⁴
$I_y$ = 0,1 cm⁴
$W_x$ = 0,7 cm³
$W_y$ = 0,3 cm³
m = 0,3 kg/m




19194

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **11x20** (1x) | Signal gray | | 20 | **3 842 551 044** |
| **11x20** (1x) | Black | ⚠ | 20 | **3 842 551 045** |
| Material: | PP | | | |

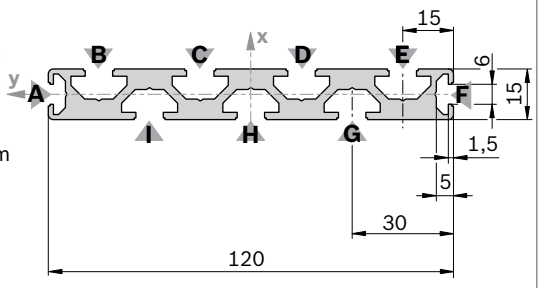
| 11x20 | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 2000 | **3 842 992 476 / L** |
| 1 pc | | 2000 | **3 842 564 213** |
| 10 pcs | | 2000 | **3 842 513 581** |

**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 cm²
$I_x$ = 110,4 cm⁴
$I_y$ = 2,2 cm⁴
$W_x$ = 18,4 cm³
$W_y$ = 2,7 cm³
m = 2,4 kg/m




19195

| 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)[1] / D11 (B,C,D,E,G,H,I)[1] |
| Individual profile finishing ($L_{max\ i}$ = 2300 mm) | DI / DIS / MT / MTS / MI / MIS |

[1] For the specified slots

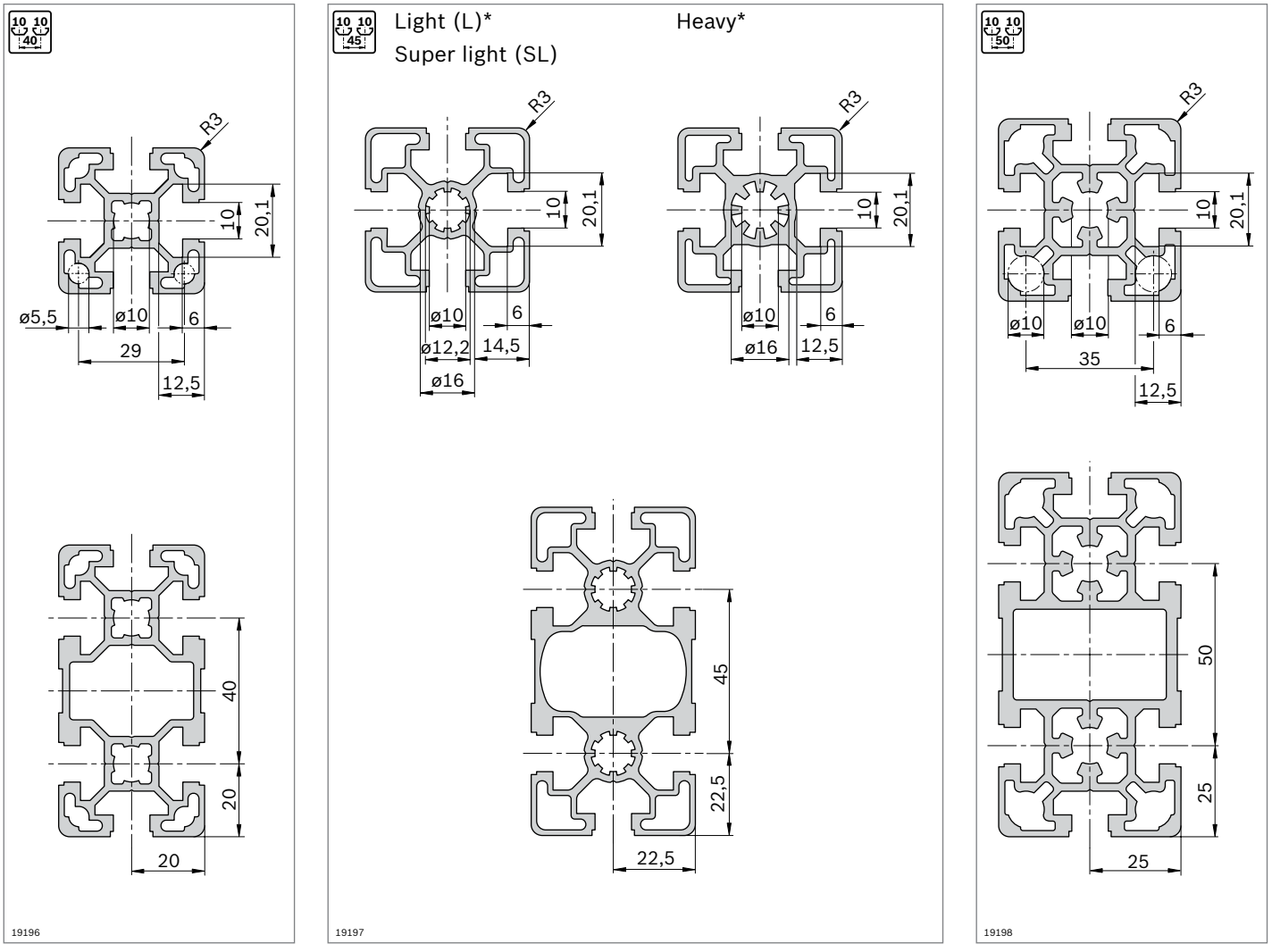
2

# Strut profiles with 10 mm slot

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

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 |

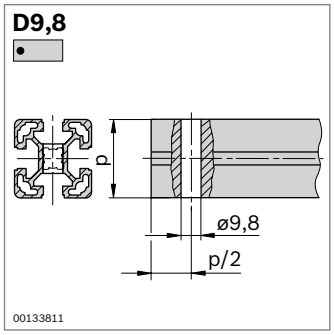
For applications with high loads, we recommend especially stable profiles with 10 mm slots, e.g. for heavy work tables, fixtures, machine frames, transport shuttles, protective enclosures, and handling systems.

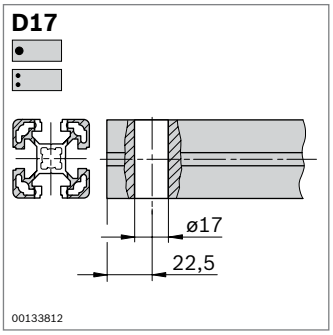
**Reduced maximum profile lengths $L_{max\,i}$ with individual profile finishing**

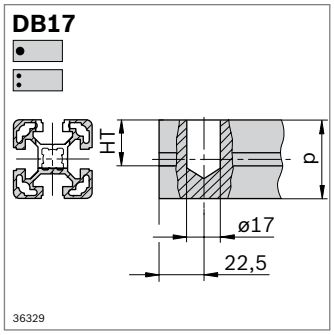
| $L_{max}$ (mm) | $L_{max\,i}$ (mm) |
|---|---|
| 6070 | 5400 |
| 3000 | 2300 |
| 2000 | 1300 |

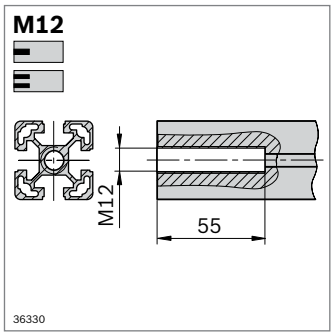
Due to its very sturdy design, this slot allows maximum strength connections.

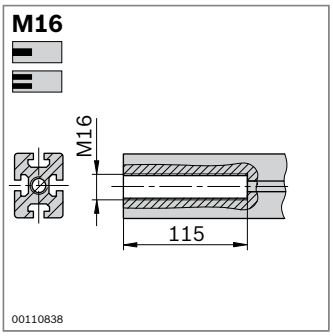
**Profile finishing**

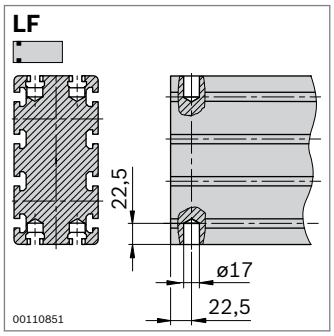


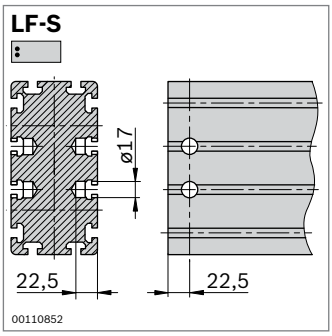



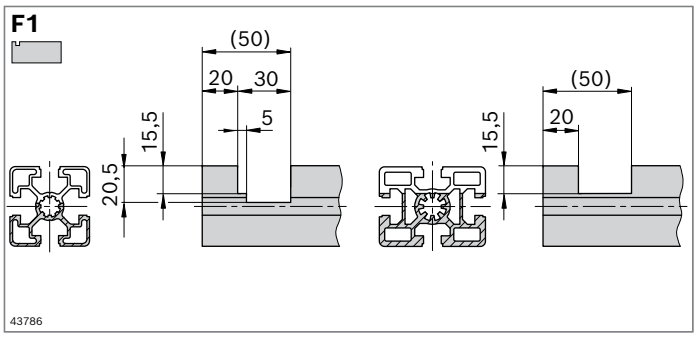



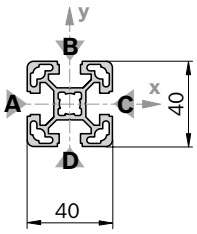




F1 exception: 45x60 and sliding door profile 45x45

## 40x40L

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




19199

| 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 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Individual profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2] |

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 370 / 440 mm

| 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 | | | |

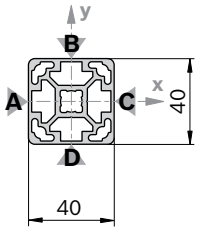
| Cover cap ZN | ESD | No. | FS |
|---|---|---|---|
| **40x40-ZN** | | **3 842 541 807** | FS2 |
| Material: | Cover cap: Diecast zinc<br>Fastening material: Steel; zinc-plated | | |

**FS2**

DIN 7991
M6x16

## 40x40L 0N

A = 6,3 cm²
$I_x$ = 10,4 cm⁴
$I_y$ = 10,4 cm⁴
$W_x$ = 5,2 cm³
$W_y$ = 5,2 cm³
m = 1,7 kg/m




19200

Cover cap: see 40x40

| 40x40L 0N | | | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | | 50 ... 6070 | **3 842 993 876 / L** |
| 20 pcs | | | 6070 | **3 842 540 954** |

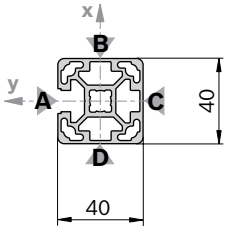
**Quick & Easy** (p. 2-8, see fold-out section)

| 40x40L 0N | 3 842 993 760 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Individual profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 370 / 440 mm

## 40x40L 1N

A = 6,1 cm²
$I_x$ = 9,8 cm⁴
$I_y$ = 10,3 cm⁴
$W_x$ = 4,7 cm³
$W_y$ = 5,1 cm³
m = 1,7 kg/m




19201

Cover cap: see 40x40

| 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** |

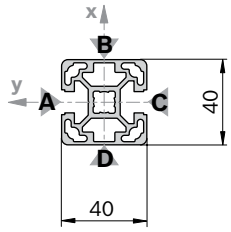
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 370 / 440 mm

## 40x40L 2N

A = 6,0 cm²
$I_x$ = 9,0 cm⁴
$I_y$ = 10,3 cm⁴
$W_x$ = 4,5 cm³
$W_y$ = 5,2 cm³
m = 1,6 kg/m







19202

Cover cap: see 40x40

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

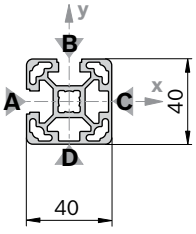
**Quick & Easy** (p. 2-8, see fold-out section)

| 40x40L 2N | 3 842 993 720 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 370 / 440 mm

## 40x40L 2NVS

A = 6,0 cm²
$I_x$ = 9,7 cm⁴
$I_y$ = 9,7 cm⁴
$W_x$ = 4,9 cm³
$W_y$ = 4,9 cm³
m = 1,6 kg/m







19203

Cover cap: see 40x40

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

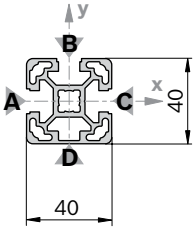
**Quick & Easy** (p. 2-8, see fold-out section)

| 40x40L 2NVS | 3 842 993 721 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 370 / 440 mm

## 40x40L 3N

A = 5,8 cm²
$I_x$ = 9,7 cm⁴
$I_y$ = 9,0 cm⁴
$W_x$ = 4,8 cm³
$W_y$ = 4,5 cm³
m = 1,6 kg/m







19204

Cover cap: see 40x40

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

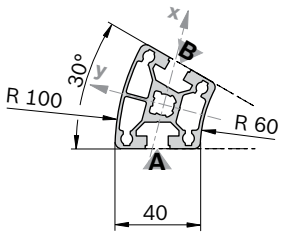
**Quick & Easy** (p. 2-8, see fold-out section)

| 40x40L 3N | 3 842 993 722 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Individual profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 370 / 440 mm

## 40x30°

A = 6,2 cm²
$I_x$ = 9,4 cm⁴
$I_y$ = 11,8 cm⁴
$W_x$ = 4,7 cm³
$W_y$ = 5,9 cm³
m = 1,7 kg/m




19205

| 40x30° | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 993 195 / L** |
| 1 pc | | 6070 | **3 842 529 372** |
| 12 pcs | | 6070 | **3 842 529 371** |

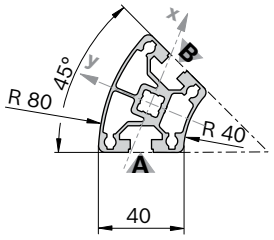
**Quick & Easy** (p. 2-8, see fold-out section)

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

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **40x30°** (1x) | Signal gray | | 20 | **3 842 551 014** |
| **40x30°** (1x) | Black | ⚠ | 20 | **3 842 551 015** |
| Material: | PP | | | |

## 40x45°

A = 6,8 cm²
$I_x$ = 9,9 cm⁴
$I_y$ = 16,6 cm⁴
$W_x$ = 5,0 cm³
$W_y$ = 8,3 cm³
m = 1,8 kg/m




19206

| 40x45° | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 993 197 / L** |
| 1 pc | | 6070 | **3 842 529 374** |
| 12 pcs | | 6070 | **3 842 529 373** |

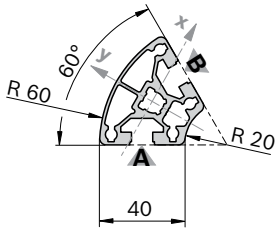
**Quick & Easy** (p. 2-8, see fold-out section)

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

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **40x45°** (1x) | Signal gray | | 20 | **3 842 551 016** |
| **40x45°** (1x) | Black | ⚠ | 20 | **3 842 551 017** |
| Material: | PP | | | |

## 40x60°

A = 6,3 cm²
$I_x$ = 8,7 cm⁴
$I_y$ = 13,1 cm⁴
$W_x$ = 4,3 cm³
$W_y$ = 6,5 cm³
m = 1,7 kg/m




19207

| 40x60° | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 993 198 / L** |
| 1 pc | | 6070 | **3 842 529 376** |
| 12 pcs | | 6070 | **3 842 529 375** |

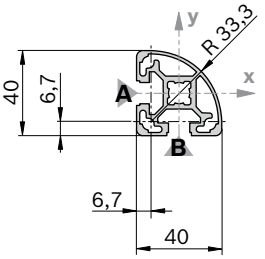
**Quick & Easy** (p. 2-8, see fold-out section)

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

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **40x60°** (1x) | Signal gray | | 20 | **3 842 551 018** |
| **40x60°** (1x) | Black | ⚠ | 20 | **3 842 551 019** |
| Material: | PP | | | |

## 40x40L R

A = 5,0 cm²
$I_x$ = 7,2 cm⁴
$I_y$ = 7,2 cm⁴
$W_x$ = 3,6 cm³
$W_y$ = 3,6 cm³
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 | | | |

| 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** |

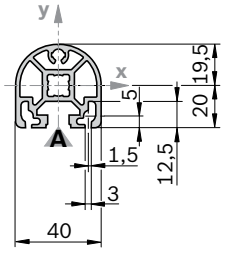
**Quick & Easy** (p. 2-8, see fold-out section)

| 40x40L R | 3 842 993 725 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / DB17 (A,B)[1] |
| Customized profile finishing | – |

[1] For the specified slots

## 40x40 HR

A = 5,5 cm²
$I_x$ = 8,1 cm⁴
$I_y$ = 7,6 cm⁴
$W_x$ = 4,0 cm³
$W_y$ = 3,6 cm³
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[1] | Color | ESD | | No. |
|---|---|---|---|---|
| **40x40 HR** (1x) | Signal gray | | 20 | **3 842 548 786** |
| **40x40 HR** (1x) | Black | ⚠ | 20 | **3 842 548 787** |
| Material: | PP | | | |

[1] The cover cap is also suitable for use with a hole; hole can be broken out

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

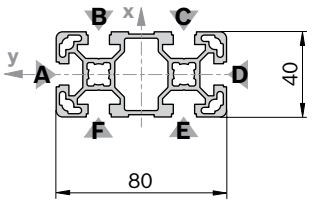
**Quick & Easy** (p. 2-8, see fold-out section)

| 40x40 HR | 3 842 993 723 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / DB17 |
| Individual profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 370 / 440 mm

## 40x80L

A = 9,9 cm²
$I_x$ = 63,4 cm⁴
$I_y$ = 17,3 cm⁴
$W_x$ = 15,9 cm³
$W_y$ = 8,7 cm³
m = 2,7 kg/m




19210

| 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

| 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 | | | |

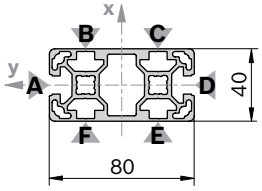
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 40x80L 2N

A = 10,9 cm²
$I_x$ = 66,6 cm⁴
$I_y$ = 20,8 cm⁴
$W_x$ = 16,6 cm³
$W_y$ = 10,4 cm³
m = 2,9 kg/m




33094

Cover cap: see 40x80

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

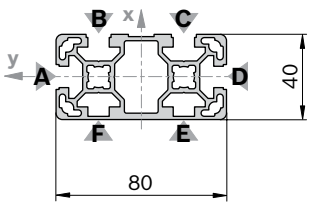
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 40x80L 4N

A = 10,4 cm²
$I_x$ = 65,2 cm⁴
$I_y$ = 19,1 cm⁴
$W_x$ = 16,3 cm³
$W_y$ = 9,9 cm³
m = 2,8 kg/m




19211

Cover cap: see 40x80

| 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** |

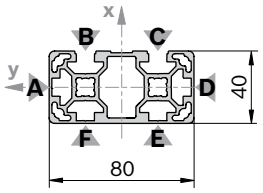
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 40x80L 2NVS

A = 10,7 cm²
$I_x$ = 67,8 cm⁴
$I_y$ = 19,0 cm⁴
$W_x$ = 17,0 cm³
$W_y$ = 9,5 cm³
m = 2,9 kg/m




33093

Cover cap: see 40x80

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

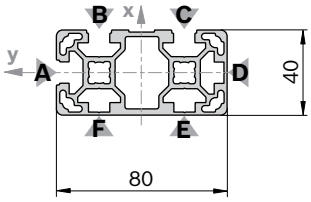
**Quick & Easy** (p. 2-8, see fold-out section)

| 40x80 L 2NVS | 3 842 993 767 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 40x80L 3NVS

A = 10,6 cm²
$I_x$ = 67,8 cm⁴
$I_y$ = 19,0 cm⁴
$W_x$ = 17,0 cm³
$W_y$ = 9,5 cm³
m = 2,9 kg/m




19212

Cover cap: see 40x80

| 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** |

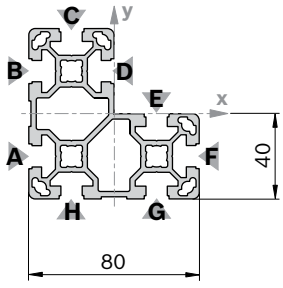
**Quick & Easy** (p. 2-8, see fold-out section)

| 40x80L 3NVS | 3 842 993 753 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 40x80x80L

A = 15,4 cm²
$I_x$ = 96,6 cm⁴
$I_y$ = 96,6 cm⁴
$W_x$ = 24,2 cm³
$W_y$ = 24,2 cm³
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 | | | |

| 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** |

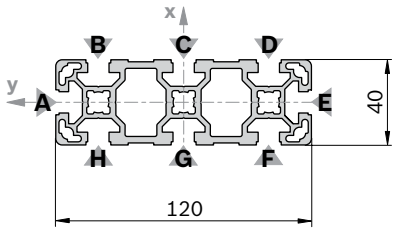
**Quick & Easy** (p. 2-8, see fold-out section)

| 40x80x80L | 3 842 993 730 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 40x120L

A = 15,5 cm²
$I_x$ = 203,2 cm⁴
$I_y$ = 27,8 cm⁴
$W_x$ = 33,9 cm³
$W_y$ = 13,9 cm³
m = 4,2 kg/m




19214

| 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 D17 | 80 ... 6000 | **3 842 993 142 / L** |
| 1 pc | D17V 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

| 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 | ESD | 20 | **3 842 548 747** |
| **40x80** (1x) | Black | ESD | 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

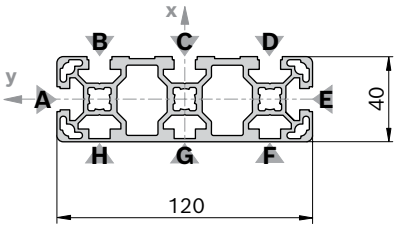
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 40x120L 5N

A = 15,8 cm²
$I_x$ = 212,4 cm⁴
$I_y$ = 30,1 cm⁴
$W_x$ = 35,3 cm³
$W_y$ = 15,5 cm³
m = 4,3 kg/m




37612

Cover cap: See 40x120L

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

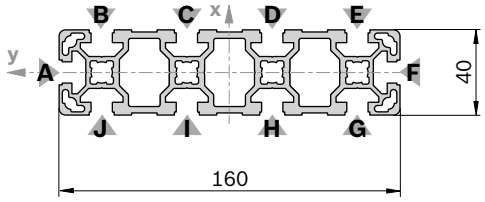
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 40x160L

A = 20,5 cm²
$I_x$ = 466,7 cm⁴
$I_y$ = 37,2 cm⁴
$W_x$ = 58,3 cm³
$W_y$ = 18,6 cm³
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

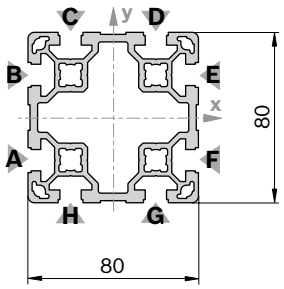
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 80x80L

A = 18,2 cm²
$I_x$ = 132,1 cm⁴
$I_y$ = 132,1 cm⁴
$W_x$ = 33,0 cm³
$W_y$ = 33,0 cm³
m = 4,9 kg/m




19216

| 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

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **80x80** (1x) | Signal gray | | 20 | **3 842 548 750** |
| **80x80** (1x) | Black | | 20 | **3 842 548 751** |
| Material: | PP | | | |

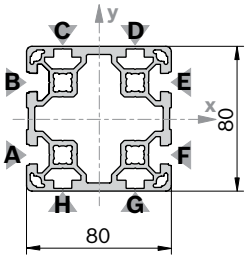
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 80x80L 4N

A = 19,1 cm²
$I_x$ = 142,5 cm⁴
$I_y$ = 142,5 cm⁴
$W_x$ = 35,6 cm³
$W_y$ = 35,6 cm³
m = 5,2 kg/m




36363

| 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)

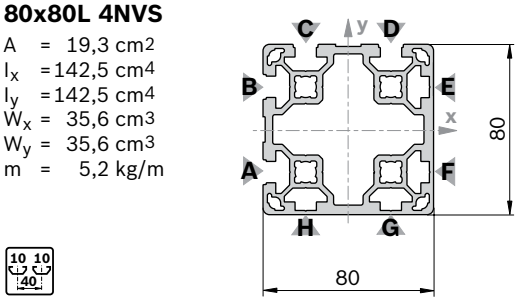
| 80x80L 4N | 3 842 993 769 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2] |

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

| 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 4NVS

A = 19,3 cm²
$I_x$ = 142,5 cm⁴
$I_y$ = 142,5 cm⁴
$W_x$ = 35,6 cm³
$W_y$ = 35,6 cm³
m = 5,2 kg/m




19416

Cover cap: see 80x80

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

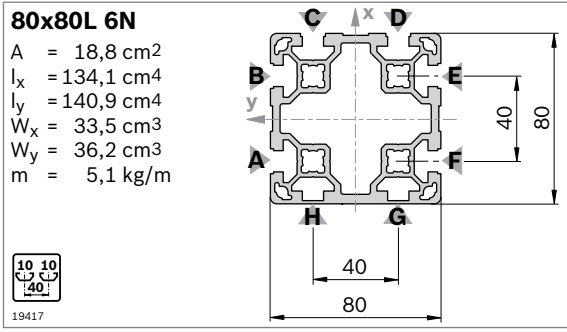
**Quick & Easy** (p. 2-8, see fold-out section)

| 80x80L 4NVS | 3 842 993 758 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 80x80L 6N

A = 18,8 cm²
$I_x$ = 134,1 cm⁴
$I_y$ = 140,9 cm⁴
$W_x$ = 33,5 cm³
$W_y$ = 36,2 cm³
m = 5,1 kg/m




19417

Cover cap: see 80x80

| 80x80L 6N | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 993 423 / L** |
| 1 pc | | 6070 | **3 842 536 482** |
| 6 pcs | | 6070 | **3 842 536 481** |

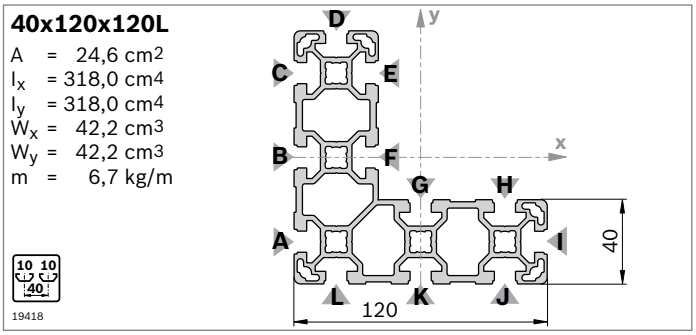
**Quick & Easy** (p. 2-8, see fold-out section)

| 80x80L 6N | 3 842 993 675 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2] |

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 40x120x120L

A = 24,6 cm²
$I_x$ = 318,0 cm⁴
$I_y$ = 318,0 cm⁴
$W_x$ = 42,2 cm³
$W_y$ = 42,2 cm³
m = 6,7 kg/m




19418

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **40x40** (5x) | Signal gray | | 100 | **3 842 548 746** |
| **40x80** (2x) | Signal gray | | 20 | **3 842 548 748** |
| **40x40** (1x) | Signal gray | | 100 | **3 842 548 746** |
| **40x40** (5x) | Black | ⚠ | 20 | **3 842 548 747** |
| **40x80** (2x) | Black | ⚠ | 20 | **3 842 548 749** |
| **40x40** (1x) | Black | ⚠ | 20 | **3 842 548 747** |
| Material: | PP | | | |

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

| 40x120x120L | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 993 653 / L** |
| 1 pc | | 6070 | **3 842 538 252** |
| 4 pcs | | 6070 | **3 842 538 287** |

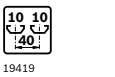
**Quick & Easy** (p. 2-8, see fold-out section)

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

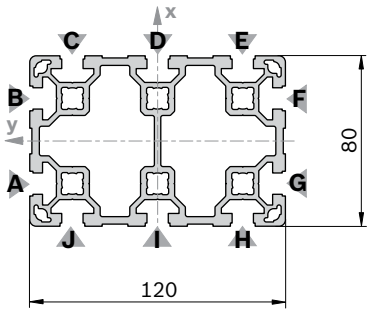
[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 420 / 540 mm

## 80x120L

A = 25,6 cm²
$I_x$ = 389,2 cm⁴
$I_y$ = 192,8 cm⁴
$W_x$ = 64,9 cm³
$W_y$ = 48,2 cm³
m = 6,9 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 mm (note minimum length, p. 2-25) | M12 / D9.8 (C,D,E,H,I, J)[1] / D17 (C,D,E,H,I,J)[1] / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2] |

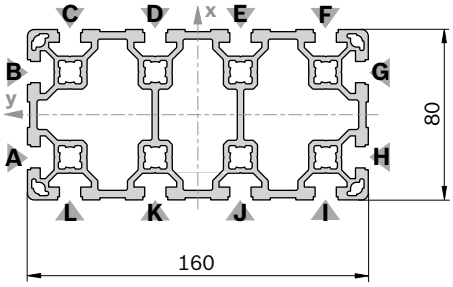
[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 439 / 578 mm

## 80x160L

A = 32,9 cm²
$I_x$ = 850,7 cm⁴
$I_y$ = 253,4 cm⁴
$W_x$ = 106,3 cm³
$W_y$ = 63,4 cm³
m = 8,9 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

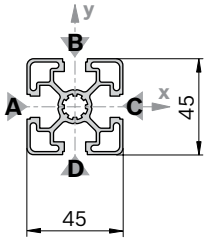
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 460 / 620 mm

## 45x45L

A = 6,0 cm²
$I_x$ = 11,7 cm⁴
$I_y$ = 11,7 cm⁴
$W_x$ = 5,2 cm³
$W_y$ = 5,2 cm³
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<br>Fastening material: Steel; zinc-plated | | |

| 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 | 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 $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 / F1 (A)[1] |
| Customized profile finishing ($L_{max\,i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2] |

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 378 / 456 mm

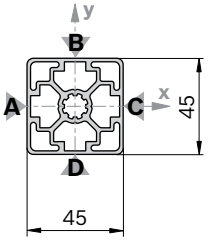
**FS2**



DIN 7991
M6x16

## 45x45L 0N

A = 6,7 cm²
$I_x$ = 13,5 cm⁴
$I_y$ = 13,5 cm⁴
$W_x$ = 6,0 cm³
$W_y$ = 6,0 cm³
m = 1,8 kg/m







19422

Cover cap: see 45x45

| 45x45L 0N | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 994 174 / L** |
| 20 pcs | | 6070 | **3 842 540 955** |

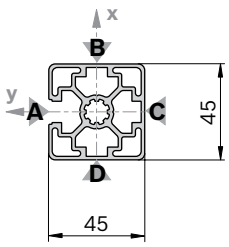
**Quick & Easy** (p. 2-8, see fold-out section)

| 45x45L 0N | 3 842 993 761 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\,i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 378 / 456 mm

## 45x45L 1N

A = 6,5 cm²
$I_x$ = 12,6 cm⁴
$I_y$ = 13,5 cm⁴
$W_x$ = 5,5 cm³
$W_y$ = 6,0 cm³
m = 1,8 kg/m




19423

Cover cap: see 45x45

| 45x45L 1N | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 992 401 / L** |
| 1 pc | | 6070 | **3 842 557 232** |
| 20 pcs | | 6070 | **3 842 557 222** |

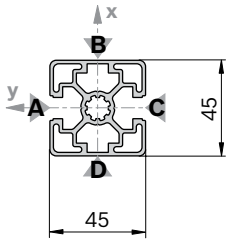
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 378 / 456 mm

## 45x45L 2N

A = 6,4 cm²
$I_x$ = 11,6 cm⁴
$I_y$ = 13,5 cm⁴
$W_x$ = 5,2 cm³
$W_y$ = 6,0 cm³
m = 1,7 kg/m




19424

Cover cap: see 45x45

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

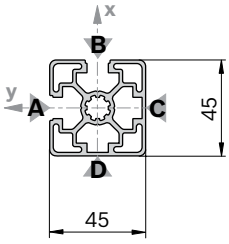
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 378 / 456 mm

## 45x45L 2NVS

A = 6,4 cm²
$I_x$ = 12,6 cm⁴
$I_y$ = 12,6 cm⁴
$W_x$ = 5,6 cm³
$W_y$ = 5,6 cm³
m = 1,7 kg/m




19425

Cover cap: see 45x45

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

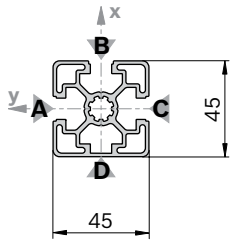
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 378 / 456 mm

## 45x45L 3N

A = 6,2 cm²
$I_x$ = 12,6 cm⁴
$I_y$ = 11,7 cm⁴
$W_x$ = 5,4 cm³
$W_y$ = 5,2 cm³
m = 1,7 kg/m




19426

Cover cap: see 45x45

| 45x45L 3N | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 992 404 / L** |
| 1 pc | | 6070 | **3 842 557 235** |
| 20 pcs | | 6070 | **3 842 557 225** |

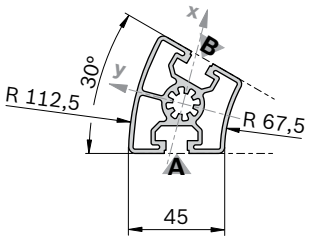
**Quick & Easy** (p. 2-8, see fold-out section)

| 45x45L 3N | 3 842 993 741 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 378 / 456 mm

## 45x30°

A = 6,9 cm²
$I_x$ = 12,7 cm⁴
$I_y$ = 15,2 cm⁴
$W_x$ = 5,0 cm³
$W_y$ = 5,3 cm³
m = 1,9 kg/m




19427

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

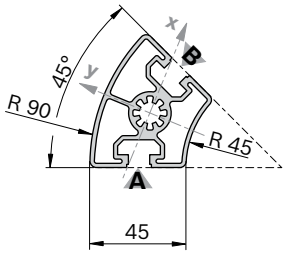
**Quick & Easy** (p. 2-8, see fold-out section)

| 45x30° | 3 842 993 733 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 |
| Customized profile finishing | – |

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **45x30°** (1x) | Signal gray | | 20 | **3 842 551 020** |
| **45x30°** (1x) | Black | ⚠ | 20 | **3 842 551 021** |
| Material: | PP | | | |

## 45x45°

A = 7,6 cm²
$I_x$ = 13,4 cm⁴
$I_y$ = 21,4 cm⁴
$W_x$ = 5,2 cm³
$W_y$ = 6,4 cm³
m = 2,0 kg/m




19428

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

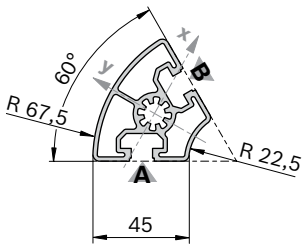
**Quick & Easy** (p. 2-8, see fold-out section)

| 45x45° | 3 842 993 735 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 |
| Customized profile finishing | – |

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **45x45°** (1x) | Signal gray | | 20 | **3 842 551 022** |
| **45x45°** (1x) | Black | ⚠ | 20 | **3 842 551 023** |
| Material: | PP | | | |

## 45x60°

A = 6,8 cm²
$I_x$ = 11,4 cm⁴
$I_y$ = 16,9 cm⁴
$W_x$ = 4,4 cm³
$W_y$ = 5,2 cm³
m = 1,8 kg/m




19429

| 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** |

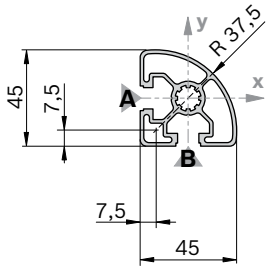
**Quick & Easy** (p. 2-8, see fold-out section)

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

| 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 cm²
$I_x$ = 8,6 cm⁴
$I_y$ = 8,6 cm⁴
$W_x$ = 5,0 cm³
$W_y$ = 5,0 cm³
m = 1,3 kg/m




19430

| 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** |

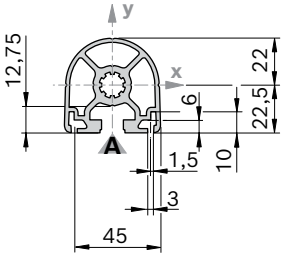
**Quick & Easy** (p. 2-8, see fold-out section)

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

| 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 cm²
$I_x$ = 11,0 cm⁴
$I_y$ = 10,7 cm⁴
$W_x$ = 4,8 cm³
$W_y$ = 4,4 cm³
m = 1,8 kg/m




19431

| 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 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)

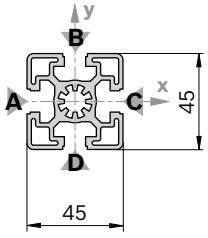
| 45x45 HR | 3 842 993 736 / ... |
|---|---|
| Length L (mm) | 50 ...6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 378 / 456 mm

| 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 | | | |

**45x45**

A = 7,5 cm2
$I_x$ = 13,8 cm4
$I_y$ = 13,8 cm4
$W_x$ = 6,1 cm3
$W_y$ = 6,1 cm3
m = 2,0 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** |

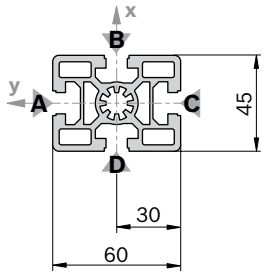
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 378 / 456 mm

## 45x60

A = 11,0 cm²
$I_x$ = 37,2 cm⁴
$I_y$ = 22,7 cm⁴
$W_x$ = 12,4 cm³
$W_y$ = 10,1 cm³
m = 3,0 kg/m




19433

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **45x60** (1x) | Signal gray | | 20 | **3 842 548 754** |
| **45x60** (1x) | Black | ESD | 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 | ESD | 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 D17V | 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 D17V | 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

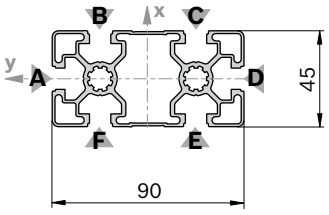
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 404 / 508 mm

## 45x90SL

A = 9,0 cm²
$I_x$ = 73,4 cm⁴
$I_y$ = 18,1 cm⁴
$W_x$ = 16,3 cm³
$W_y$ = 8,0 cm³
m = 2,4 kg/m




19434

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

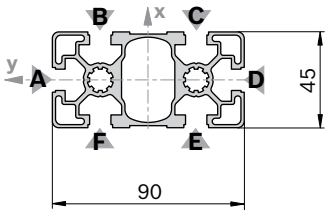
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

## 45x90L

A = 11,3 cm²
$I_x$ = 82,0 cm⁴
$I_y$ = 23,6 cm⁴
$W_x$ = 18,2 cm³
$W_y$ = 10,5 cm³
m = 3,0 kg/m







19435

| 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

| 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 | | | |

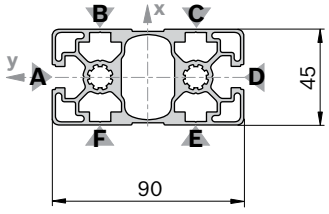
**Quick & Easy** (p. 2-8, see fold-out section)

| 45x90L | 3 842 993 662 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\,i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

## 45x90L 2N

A = 12,0 cm²
$I_x$ = 85,6 cm⁴
$I_y$ = 26,9 cm⁴
$W_x$ = 38,1 cm³
$W_y$ = 6,0 cm³
m = 3,2 kg/m







36364

Cover cap: see 45x90

| 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** |

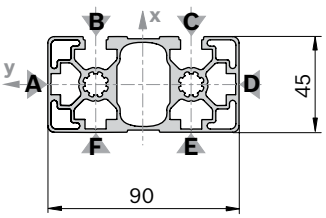
**Quick & Easy** (p. 2-8, see fold-out section)

| 45x90L 2N | 3 842 993 751 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\,i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

## 45x90L 2NVS

A = 12,0 cm²
$I_x$ = 90,6 cm⁴
$I_y$ = 25,9 cm⁴
$W_x$ = 40,3 cm³
$W_y$ = 5,7 cm³
m = 3,3 kg/m







33096

Cover cap: see 45x90

| 45x90L 2NVS | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 … 6070 | **3 842 994 175 / L** |
| 12 pcs | | 6070 | **3 842 555 652** |

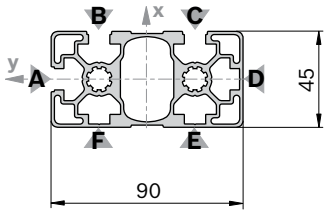
**Quick & Easy** (p. 2-8, see fold-out section)

| 45x90L 2NVS | 3 842 993 770 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456/ 612 mm

## 45x90L 3NVS

A = 11,8 cm²
$I_x$ = 87,2 cm⁴
$I_y$ = 25,2 cm⁴
$W_x$ = 38,8 cm³
$W_y$ = 5,6 cm³
m = 3,2 kg/m







19437

Cover cap: see 45x90

| 45x90L 3NVS | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 … 6070 | **3 842 993 635 / L** |
| 1 pc | | 6070 | **3 842 538 302** |
| 12 pcs | | 6070 | **3 842 538 298** |

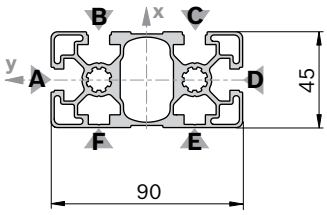
**Quick & Easy** (p. 2-8, see fold-out section)

| 45x90L 3NVS | 3 842 993 752 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

## 45x90L 4N

A = 11,6 cm²
$I_x$ = 83,6 cm⁴
$I_y$ = 25,2 cm⁴
$W_x$ = 18,6 cm³
$W_y$ = 10,9 cm³
m = 3,2 kg/m







43375

Cover cap: see 45x90

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

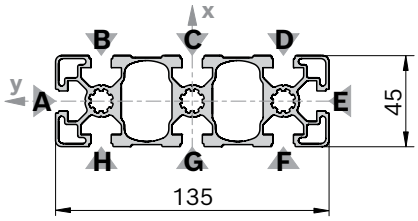
**Quick & Easy** (p. 2-8, see fold-out section)

| 45x90L 4N | 3 842 993 777 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

## 45x135L

A = 16,8 cm²
$I_x$ = 267,4 cm⁴
$I_y$ = 36,2 cm⁴
$W_x$ = 39,6 cm³
$W_y$ = 16,1 cm³
m = 4,6 kg/m







39851

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **45x45** (1x) | Signal gray | | 100 | **3 842 548 752** |
| **45x90** (1x) | Signal gray | | 20 | **3 842 548 756** |
| **45x45** (1x) | Black | | 20 | **3 842 548 753** |
| **45x90** (1x) | Black | | 20 | **3 842 548 757** |
| 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 | **3 842 993 528 / L** |
| 1 pc | | 6070 | **3 842 564 124** |
| 8 pcs | | 6070 | **3 842 564 122** |

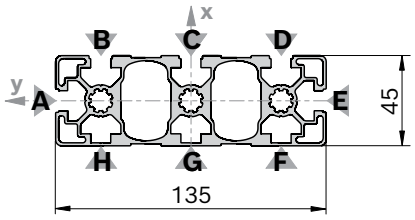
**Quick & Easy** (p. 2-8, see fold-out section)

| 45x135 | 3 842 993 773 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 (B,C,D,F,G,H)[1] / D17 (B,C,D,F,G,H)[1] / DB17 / F1 (A, E)[1] |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2] |

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 534 / 768 mm

## 45x135L 5N

A = 17,3 cm²
$I_x$ = 274,4 cm⁴
$I_y$ = 38,6 cm⁴
$W_x$ = 40,7 cm³
$W_y$ = 17,6 cm³
m = 4,7 kg/m







39852

Cover cap: See 45x135L

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

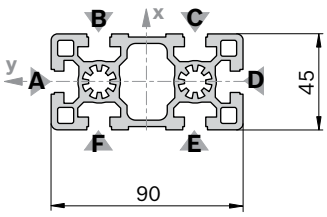
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 534 / 768 mm

## 45x90

A = 15,4 cm²
$I_x$ = 124,6 cm⁴
$I_y$ = 32,8 cm⁴
$W_x$ = 27,7 cm³
$W_y$ = 14,6 cm³
m = 4,2 kg/m




10 10 45

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 | | | |

| 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

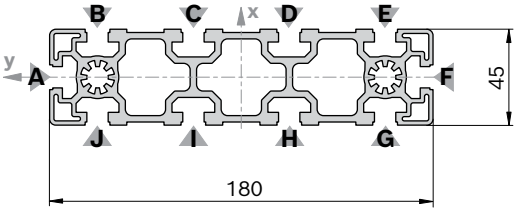
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

## 45x180

A = 25,5 cm²
$I_x$ = 766,7 cm⁴
$I_y$ = 57,3 cm⁴
$W_x$ = 85,2 cm³
$W_y$ = 25,5 cm³
m = 6,9 kg/m




10 10 45

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 | | | |

| 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 D17 | 80 ... 6000 | **3 842 990 342 / L** |
| 1 pc | D17V 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

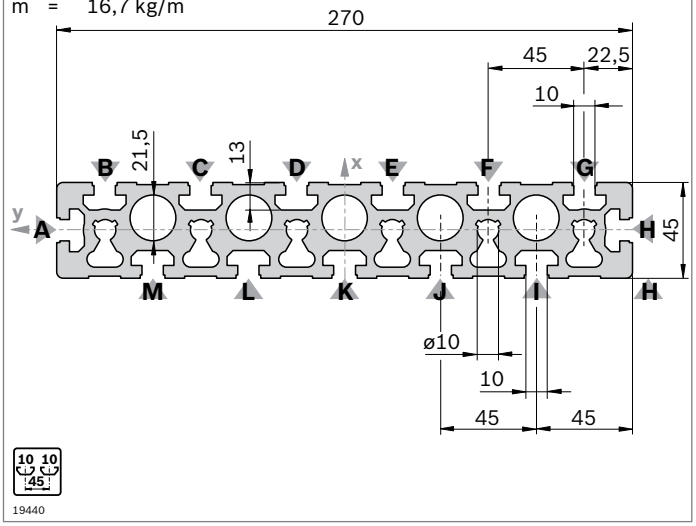
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 30°; $L_{min1}$ / $L_{min2}$ = 404 / 508 mm

## 45x270

A = 61,9 cm²
$I_x$ = 3962,0 cm⁴
$I_y$ = 118,0 cm⁴
$W_x$ = 300,2 cm³
$W_y$ = 61,6 cm³
m = 16,7 kg/m




19440

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

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

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

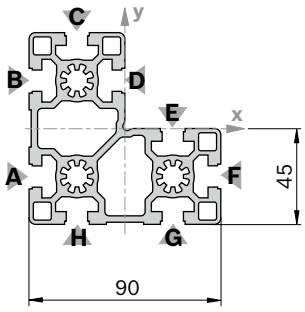
| 45x270 | 3 842 993 732 / ... |
|---|---|
| Length L (mm) | 80 ... 6000 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 (B,C,D,E,F,G, I,J,K,L,M)[1] / D17 (B,C,D,E,F,G,I,J,K,L,M)[1] / DB17 / F1 (A,H)[1] |
| Customized profile finishing ($L_{max\ i}$ = 5400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

[1] For the specified slots

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

## 45x90x90L

A = 21,2 cm²
$I_x$ = 152,1 cm⁴
$I_y$ = 152,1 cm⁴
$W_x$ = 19,1 cm³
$W_y$ = 19,1 cm³
m = 5,7 kg/m







36805

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

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 $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 (A,B,C,F,G,H)[1] |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2] |

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

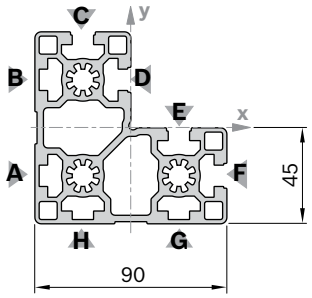
| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **45x90x90** (1x) | Signal gray | | 20 | **3 842 548 806** |
| **45x90x90** (1x) | Black | ⚠ | 20 | **3 842 548 807** |
| Material: | PP | | | |

| Cover cap with hole[1] | Color | ESD | | No. |
|---|---|---|---|---|
| **45x90x90** (1x) | Signal gray | | 20 | **3 842 548 806** |
| **45x90x90** (1x) | Black | ⚠ | 20 | **3 842 548 807** |
| Material: | PP | | | |

[1] The cover cap is also suitable for use with a hole; hole can be broken out

## 45x90x90L 4N

A = 22,1 cm²
$I_x$ = 160,8 cm⁴
$I_y$ = 160,8 cm⁴
$W_x$ = 30,6 cm³
$W_y$ = 30,6 cm³
m = 6,0 kg/m




29432

Cover cap: see 45x90x90L

| 45x90x90L 4N | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 994 176 / L** |
| 8 pcs | | 6070 | **3 842 547 827** |

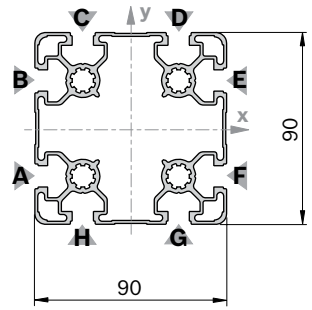
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

## 90x90SL

A = 14,1 cm2
$I_x$ = 130,2 cm4
$I_y$ = 130,2 cm4
$W_x$ = 28,9 cm3
$W_y$ = 28,9 cm3
m = 3,8 kg/m




19442

Cover cap: see 90x90L

| 90x90SL | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 993 449 / L** |
| 1 pc | | 6070 | **3 842 537 101** |
| 6 pcs | | 6070 | **3 842 537 100** |

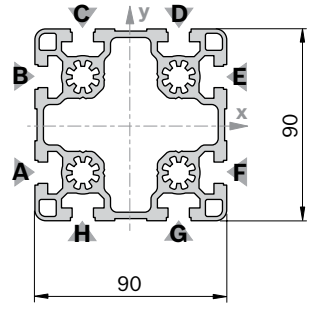
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

## 90x90L

A = 24,1 cm2
$I_x$ = 211,1 cm4
$I_y$ = 211,1 cm4
$W_x$ = 46,9 cm3
$W_y$ = 46,9 cm3
m = 6,5 kg/m




19443

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **90x90L** (1x) | Signal gray | | 20 | **3 842 548 758** |
| **90x90L** (1x) | Black | | 20 | **3 842 548 759** |
| Material: | PP | | | |

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

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

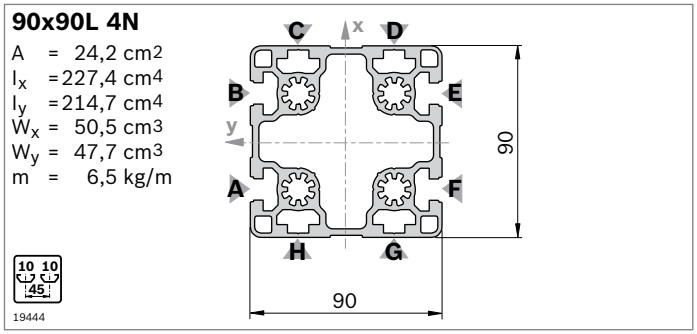
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

## 90x90L 4N

A = 24,2 cm²
$I_x$ = 227,4 cm⁴
$I_y$ = 214,7 cm⁴
$W_x$ = 50,5 cm³
$W_y$ = 47,7 cm³
m = 6,5 kg/m




Cover cap: see 90x90L

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

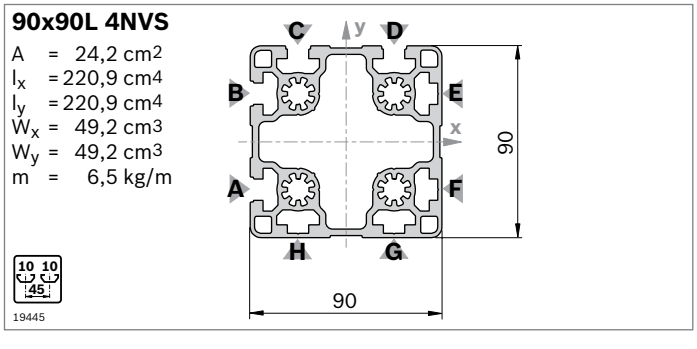
**Quick & Easy** (p. 2-8, see fold-out section)

| 90x90L 4N | 3 842 993 755 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

## 90x90L 4NVS

A = 24,2 cm²
$I_x$ = 220,9 cm⁴
$I_y$ = 220,9 cm⁴
$W_x$ = 49,2 cm³
$W_y$ = 49,2 cm³
m = 6,5 kg/m




Cover cap: see 90x90L

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

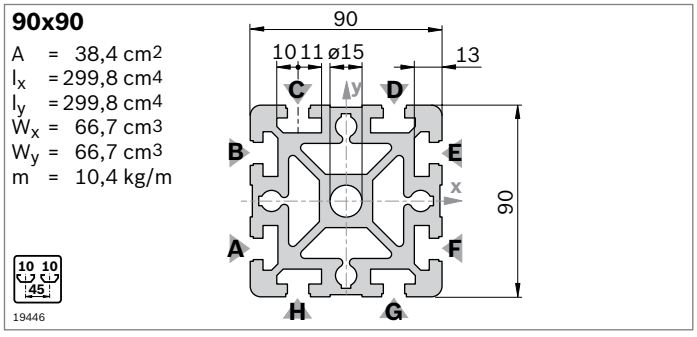
**Quick & Easy** (p. 2-8, see fold-out section)

| 90x90L 4NVS | 3 842 993 756 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

## 90x90

A = 38,4 cm²
$I_x$ = 299,8 cm⁴
$I_y$ = 299,8 cm⁴
$W_x$ = 66,7 cm³
$W_y$ = 66,7 cm³
m = 10,4 kg/m




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

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

| 90x90 | 3 842 993 679 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M16 / D9.8 / D17 / DB17 / F1 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1)] |

[1)] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 456 / 612 mm

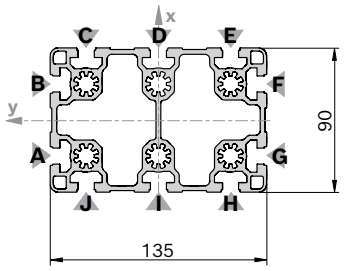
| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **90x90** (1x) | Signal gray | | 20 | **3 842 548 760** |
| **90x90** (1x) | Black | ⚠ | 20 | **3 842 548 761** |
| Material: | PP | | | |

| Cover cap with hole | Color | ESD | | No. |
|---|---|---|---|---|
| **90x90** (1x) | Signal gray | | 20 | **3 842 548 814** |
| **90x90** (1x) | Black | ⚠ | 20 | **3 842 548 815** |
| Material: | PP | | | |

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

**90x135L**

A = 32,94 cm²
$I_x$ = 629,40 cm⁴
$I_y$ = 305,23 cm⁴
$W_x$ = 93,26 cm³
$W_y$ = 67,84 cm³
m = 8,89 kg/m




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** |

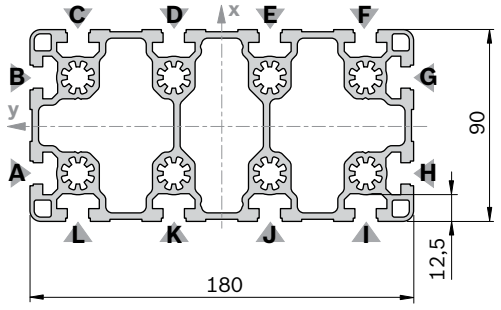
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 534 / 768 mm

## 90x180L

A = 42,8 cm²
$I_x$ = 1380,0 cm⁴
$I_y$ = 401,0 cm⁴
$W_x$ = 153,3 cm³
$W_y$ = 89,1 cm³
m = 11,6 kg/m




19447

| 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

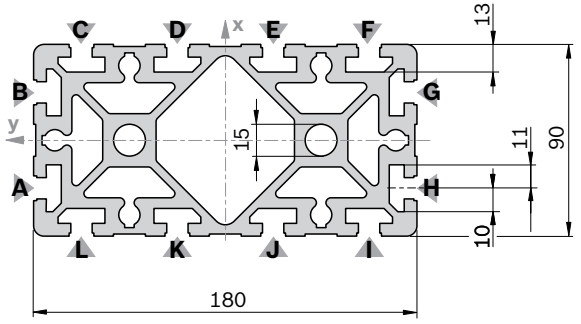
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 30°; $L_{min1}$ / $L_{min2}$ = 404 / 508 mm

## 90x180

A = 63,6 cm²
$I_x$ = 2138,3 cm⁴
$I_y$ = 544,3 cm⁴
$W_x$ = 237,6 cm³
$W_y$ = 121,0 cm³
m = 17,2 kg/m




19448

| 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)

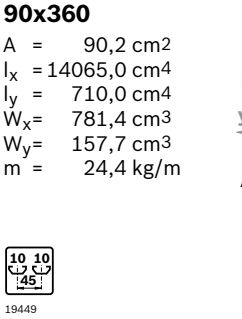
| 90x180 | 3 842 993 676 / ... |
|---|---|
| Length L (mm) | 80 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M16 / D9.8 (C,D,E,F,I,J,K,L)[1] / D17 (C,D,E,F,I,J,K,L)[1] / DB17 / F1 (A,G)[1] |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI /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

[1] For the specified slots
[2] $DG_{max}$ = 30°; $L_{min1}$ / $L_{min2}$ = 404 / 508 mm

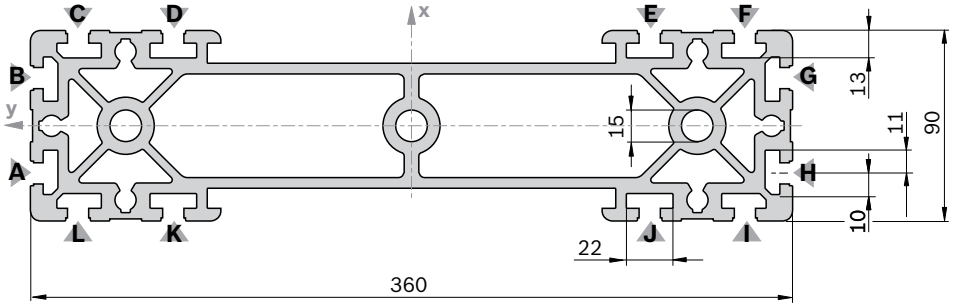
**Notice:** A quick connector cannot be used with profile 90x180

## 90x360

A = 90,2 cm²
$I_x$ = 14065,0 cm⁴
$I_y$ = 710,0 cm⁴
$W_x$ = 781,4 cm³
$W_y$ = 157,7 cm³
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

| 90x360 | | L (mm) | No. |
|---|---|---|---|
| | ▭ | 50 ... 6000 | **3 842 993 434 / L** |
| | M16 ▬ ▬ M16 | 240 ... 6000 | **3 842 993 435 / L** |
| | F2 ▭ 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 | 3 842 993 678 / ... |
|---|---|
| Length L (mm) | 80 ... 6000 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M16 / D9.8 (C,D,E,F,I,J, K,L)[1] / D17 (C,D,E,F,I,J, K,L)[1] / DB17 / F1 (A,G)[1] |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS |

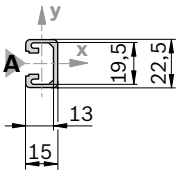
[1] For the specified slots

## 15x22,5

A = 1,3 cm²
$I_x$ = 0,8 cm⁴
$I_y$ = 0,3 cm⁴
$W_x$ = 0,9 cm³
$W_y$ = 0,6 cm³
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 | | | |

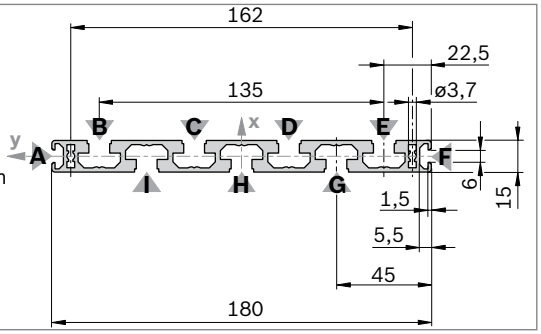
| 15x22.5 | | L (mm) | No. |
|---|---|---|---|
| 1 pc | ▭ | 50 ... 3000 | **3 842 992 473 / L** |
| 1 pc | D17 ▭ | 60 ... 3000 | **3 842 992 474 / L** |
| 1 pc | D17 ▭ D17 | 80 ... 3000 | **3 842 992 475 / L** |
| 1 pc | ▭ | 3000 | **3 842 563 232** |
| 10 pcs | ▭ | 3000 | **3 842 563 231** |

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

| 15x22.5 | 3 842 993 689 / ... |
|---|---|
| Length L (mm) | 50 ... 2000 |
| Standard profile finishing (note minimum length, p. 2-25) | D9.8 / D17 |
| Customized profile finishing | – |

## 15x180

A = 11,6 cm²
$I_x$ = 321,7 cm⁴
$I_y$ = 3,2 cm⁴
$W_x$ = 35,7 cm³
$W_y$ = 4,2 cm³
m = 3,1 kg/m




19451

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

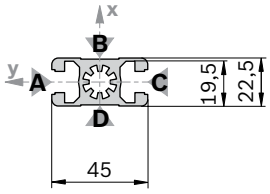
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots

## 22,5x45

A = 4,7 cm²
$I_x$ = 7,1 cm⁴
$I_y$ = 2,9 cm⁴
$W_x$ = 3,2 cm³
$W_y$ = 2,6 cm³
m = 1,3 kg/m




19452

| 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 | | | |

| 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 M12 | 110 ... 6000 | **3 842 990 090 / L** |
| 1 pc | D17V D17V | 80 ... 6000 | **3 842 990 091 / L** |
| 24 pcs | | 6070 | **3 842 537 812** |

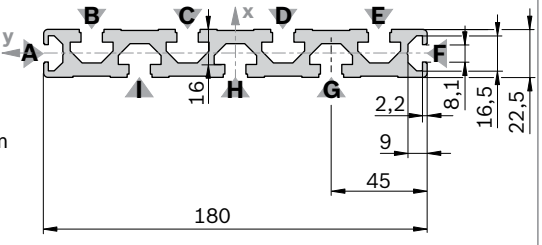
**Quick & Easy** (p. 2-8, see fold-out section)

| 22.5x45 | 3 842 993 700 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / D9.8 (A,C)[1] / D17 / DB17 (A,C)[1] |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2] |

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 378 / 456 mm

## 22,5x180

A = 21,6 cm²
$I_x$ = 581,0 cm⁴
$I_y$ = 11,8 cm⁴
$W_x$ = 66,8 cm³
$W_y$ = 14,7 cm³
m = 5,8 kg/m




19453

| 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 | | | |

| 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 | | |

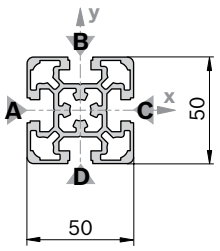
**Quick & Easy** (p. 2-8, see fold-out section)

| 22.5x180 | 3 842 993 699 / ... |
|---|---|
| Length L (mm) | 80 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | D9.8 (B,C,D,E,G,H,I)[1] / D17 (B,C,D,E,G,H,I)[1] |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS |

[1] For the specified slots

## 50x50L

A = 9,3 cm²
$I_x$ = 21,2 cm⁴
$I_y$ = 21,2 cm⁴
$W_x$ = 8,5 cm³
$W_y$ = 8,5 cm³
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 | | | |

| 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** |

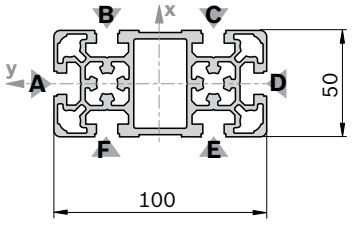
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 387 / 474 mm

## 50x100L

A = 17,2 cm²
$I_x$ = 162,8 cm⁴
$I_y$ = 42,6 cm⁴
$W_x$ = 32,6 cm³
$W_y$ = 17,0 cm³
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 | | | |

| 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)

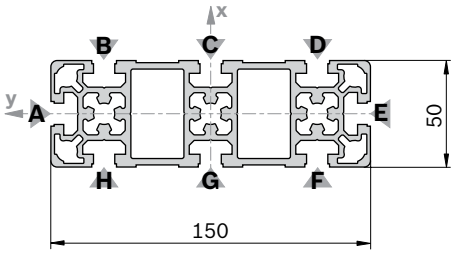
| 50x100L | 3 842 993 663 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / M16 / D9.8 / D17 / DB17 / F1 (A, D)[1] |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[2]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

[1] For the specified slots

[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 474 / 648 mm

## 50x150L

A = 25,8 cm²
$I_x$ = 540,0 cm⁴
$I_y$ = 64,2 cm⁴
$W_x$ = 72,0 cm³
$W_y$ = 25,7 cm³
m = 6,9 kg/m







19456

| 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

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **50x150** (1x) | Signal gray | | 20 | **3 842 548 818** |
| **50x150** (1x) | Black | ⚠ | 20 | **3 842 548 819** |
| Material: | PP | | | |

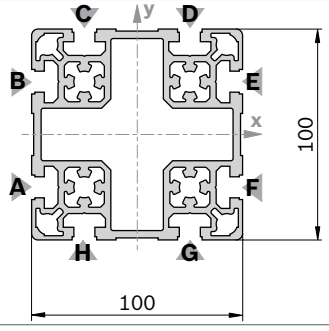
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 450 / 600 mm

## 100x100L

A = 29,9 cm²
$I_x$ = 318,3 cm⁴
$I_y$ = 318,3 cm⁴
$W_x$ = 63,7 cm³
$W_y$ = 63,7 cm³
m = 8,1 kg/m







19457

| 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

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **100x100** (1x) | Signal gray | | 20 | **3 842 548 824** |
| **100x100** (1x) | Black | ⚠ | 20 | **3 842 548 825** |
| Material: | PP | | | |

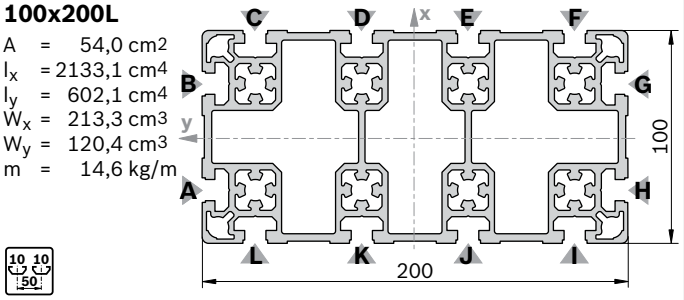
**Quick & Easy** (p. 2-8, see fold-out section)

| 100x100L | 3 842 993 685 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / M16 / D9.8 / D17 / DB17 / F1 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min1}$ / $L_{min2}$ = 474 / 648 mm

**100x200L**

A = 54,0 cm²
$I_x$ = 2133,1 cm⁴
$I_y$ = 602,1 cm⁴
$W_x$ = 213,3 cm³
$W_y$ = 120,4 cm³
m = 14,6 kg/m




19458

| 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

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **100x100** (2x) | Signal gray | | 20 | **3 842 548 824** |
| **100x100** (2x) | Black | | 20 | **3 842 548 825** |
| Material: | PP | | | |

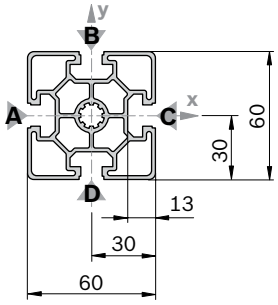
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] For the specified slots
[2] $DG_{max}$ = 30°; $L_{min}$ = 416 / 532 mm

**60x60L**

A = 9,6 cm²
$I_x$ = 32,4 cm⁴
$I_y$ = 32,4 cm⁴
$W_x$ = 10,8 cm³
$W_y$ = 10,8 cm³
m = 2,6 kg/m




19459

| 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** |

| 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 | | | |

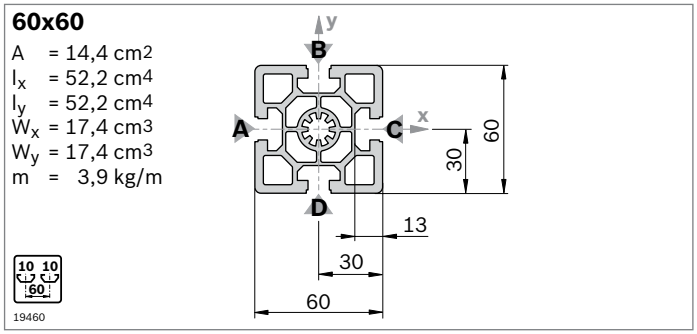
**Quick & Easy** (p. 2-8, see fold-out section)

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

[1] $DG_{max}$ = 45°; $L_{min}$ = 404 / 508 mm

## 60x60

A = 14,4 cm²
$I_x$ = 52,2 cm⁴
$I_y$ = 52,2 cm⁴
$W_x$ = 17,4 cm³
$W_y$ = 17,4 cm³
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 | | | |

| 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** |
| 1 pc | | | 6070 | **3 842 557 212** |
| 20 pcs | | | 6070 | **3 842 557 202** |

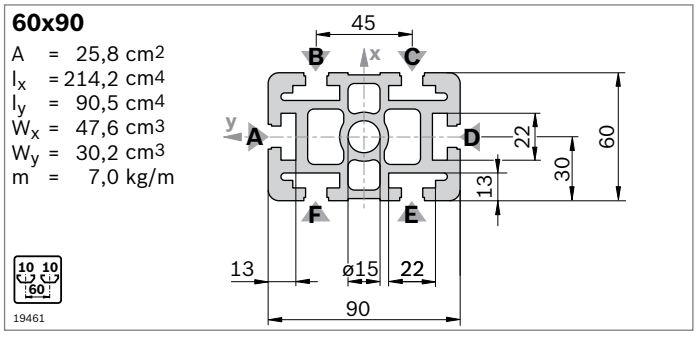
**Quick & Easy** (p. 2-8, see fold-out section)

| 60x60 | 3 842 993 668 / ... |
|---|---|
| Length L (mm) | 50 ... 6070 |
| Standard profile finishing $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M12 / M16 / D9.8 / D17 / DB17 |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] $DG_{max}$ = 45°; $L_{min}$ = 404 / 508 mm

## 60x90

A = 25,8 cm²
$I_x$ = 214,2 cm⁴
$I_y$ = 90,5 cm⁴
$W_x$ = 47,6 cm³
$W_y$ = 30,2 cm³
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

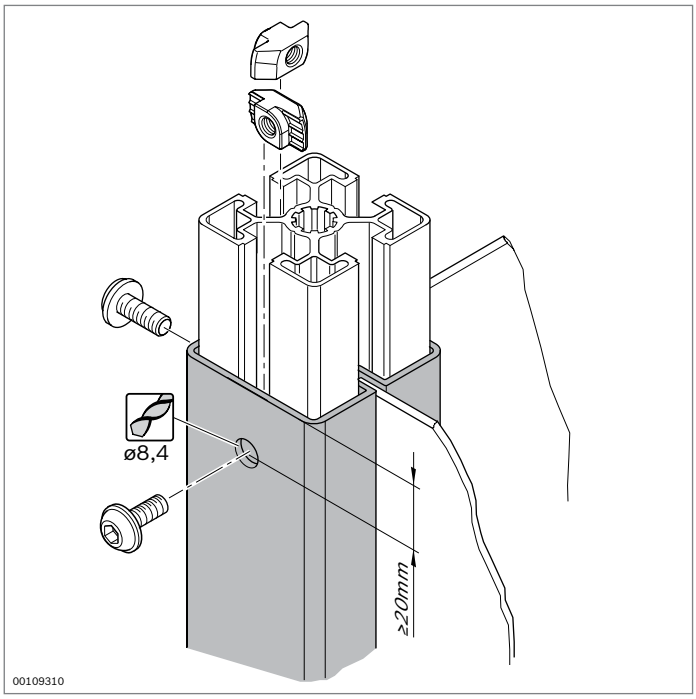
| 60x90 | | | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | | 50 ... 6070 | **3 842 990 450 / ...** |
| 1 pc | M16 | | 120 ... 6000 | **3 842 990 453 / ...** |
| 1 pc | M16 | M16 | 240 ... 6000 | **3 842 990 454 / ...** |
| 1 pc | M16 | D17 | 170 ... 6000 | **3 842 992 962 / ...** |
| 1 pc | M16 | 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 $L_{max}$ = 6000 mm (note minimum length, p. 2-25) | M16 / D9.8 / D17 / DB17 / F1 (A, D)[1] |
| Customized profile finishing ($L_{max\ i}$ = 5400 mm) | DI / DIS / MT / MTS / MI / MIS / DG[1] |

[1] For the specified slots
[1] $DG_{max}$ = 45°; $L_{min}$ = 456 / 612 mm

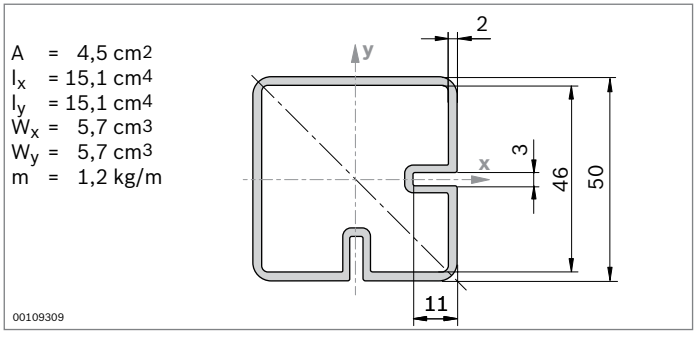



## Rectangular tube



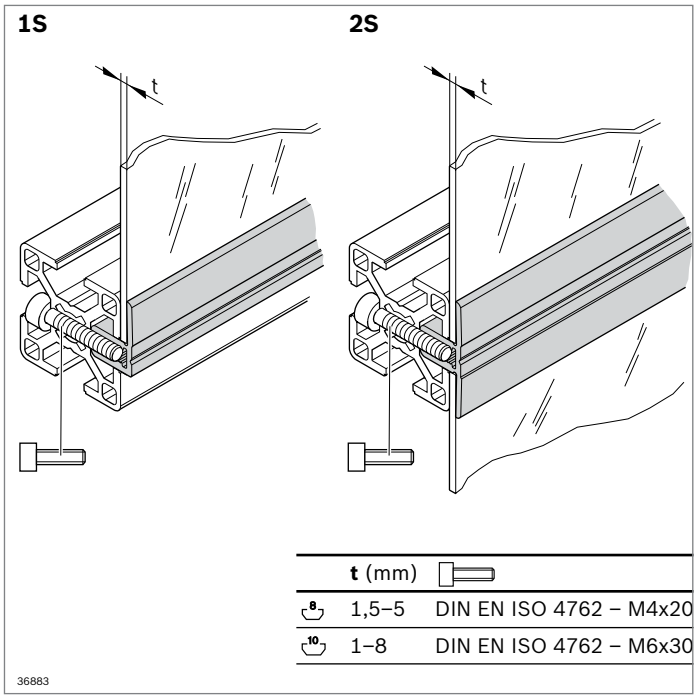

- For constructing manually height-adjustable frames
- Cut-outs for mounting of panel elements
- Profile finishing: Hole for screw

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



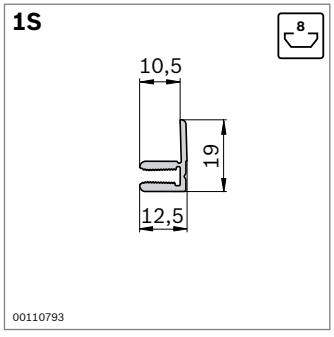

| | t (mm) | |
|---|---|---|
| 8 | 1,5–5 | DIN EN ISO 4762 – M4x20 |
| 10 | 1–8 | DIN EN ISO 4762 – M6x30 |

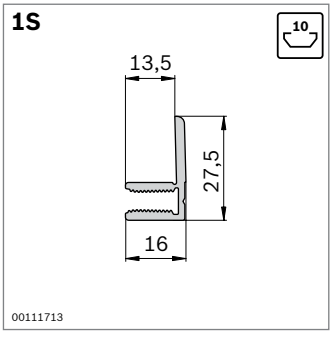
## Clamping profile

- 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

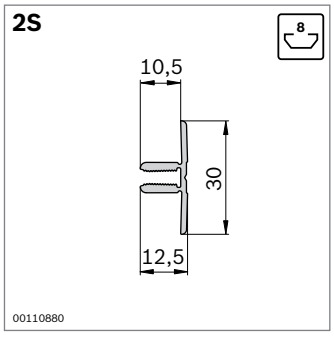
Required accessories:

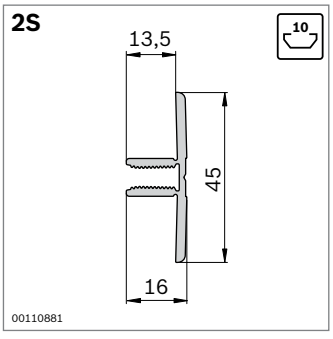
- Cylinder head bolt DIN EN ISO 4762 – M4x20 (8 mm slot)
- Cylinder head bolt DIN EN ISO 4762 – M6x30 (10 mm slot)



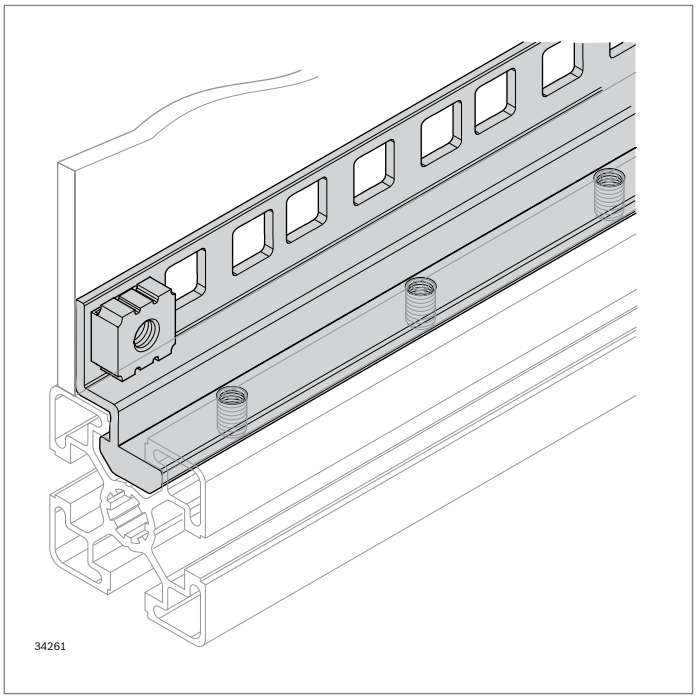




| Clamping profile 1S | | Slot | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 8 | 50 ... 3000 | **3 842 993 017 / L** |
| 10 pcs | | 8 | 3000 | **3 842 524 058** |
| 1 pc | | 10 | 50 ... 3000 | **3 842 993 019 / L** |
| 10 pcs | | 10 | 3000 | **3 842 524 064** |
| Material: | Aluminum; anodized | | | |




| Clamping profile 2S | | Slot | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 8 | 50 ... 3000 | **3 842 993 018 / L** |
| 10 pcs | | 8 | 3000 | **3 842 524 061** |
| 1 pc | | 10 | 50 ... 3000 | **3 842 993 020 / L** |
| 10 pcs | | 10 | 3000 | **3 842 524 067** |
| Material: | Aluminum; anodized | | | |

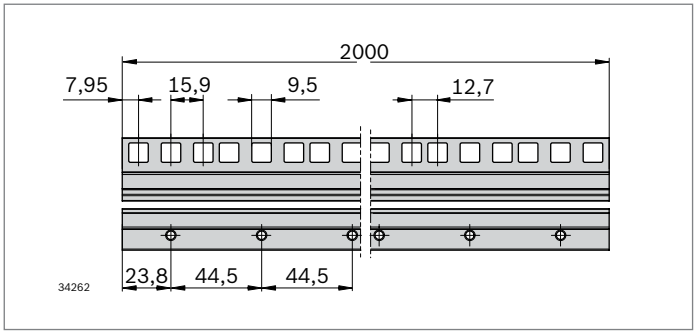



## Al angle profile 19″

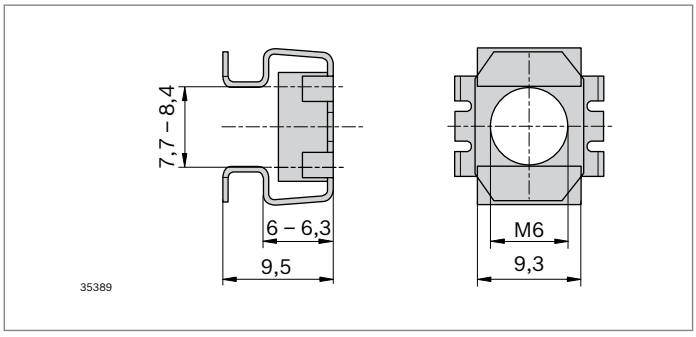
10

- 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



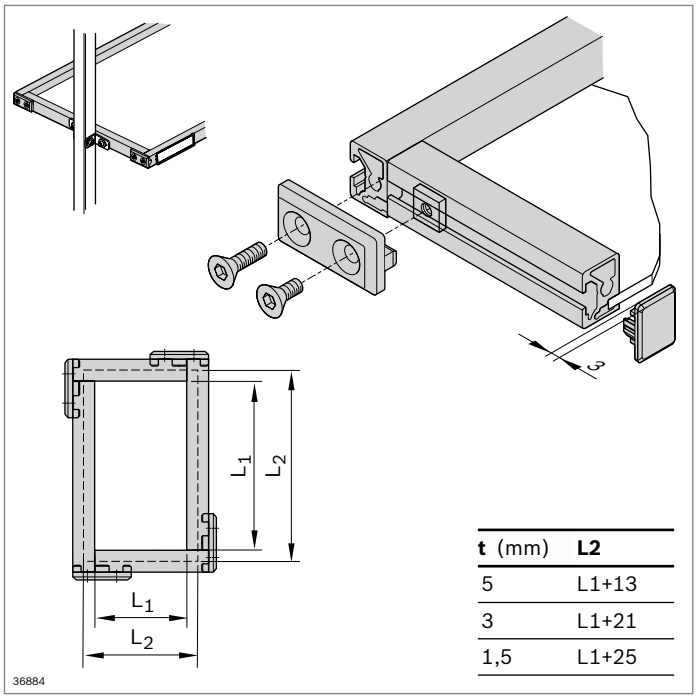

| Al angle profile 19″ | | L (mm) | No. |
|---|---|---|---|
| | 10 pcs | 2000 | **3 842 557 254** |
| Material: | Aluminum; anodized | | |




### 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 | **3 842 557 255** |
| Material: | Steel; zinc-plated | |

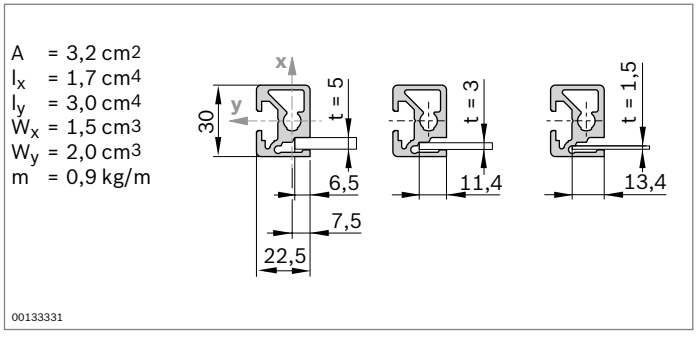



| t (mm) | L2 |
|---|---|
| 5 | L1+13 |
| 3 | L1+21 |
| 1,5 | L1+25 |

## 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)

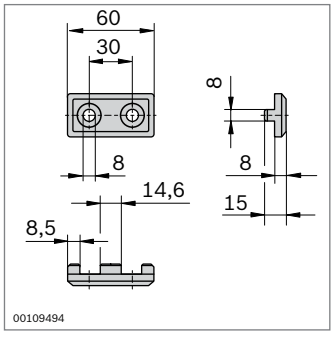



| Frame profile 22.5x30 | | Slot | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 8 | 50 ... 6070 | **3 842 992 493 / L** |
| 1 pc | | 8 | 6070 | **3 842 558 308** |
| 20 pcs | | 8 | 6070 | **3 842 557 946** |

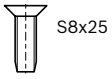
Material: Aluminum; anodized

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **22.5x30** | Signal gray | | 20 | **3 842 551 564** |
| **22.5x30** | Black | | 20 | **3 842 551 565** |

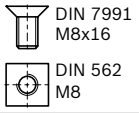
Material: PP




**FS1**




**FS2**

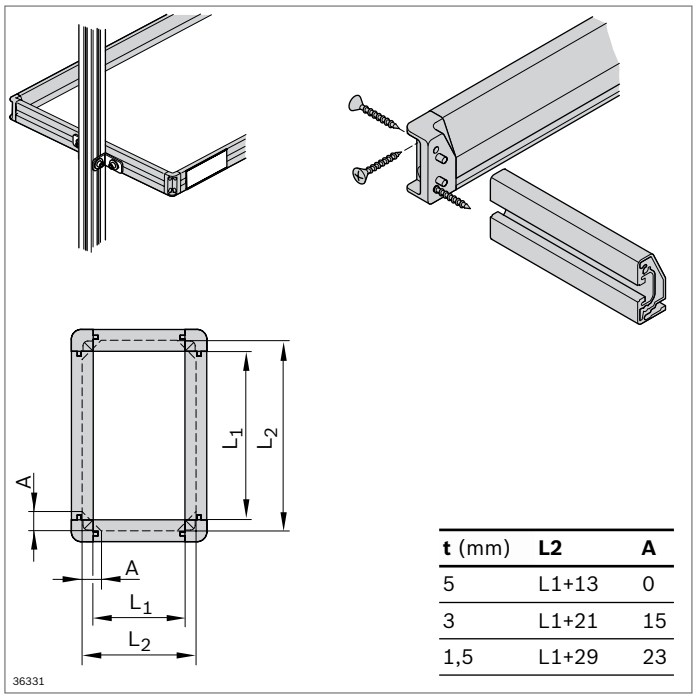



### Corner piece for frame profile 22.5x30

- For the right-angled connection of two 22.5x30 frame profiles
- Profile finishing not required

| Corner piece | Color | ESD | | No. | FS |
|---|---|---|---|---|---|
| **22.5x30** | Signal gray | | 20 | **3 842 554 708** | FS1, FS2 |
| **22.5x30** | Black | | 20 | **3 842 554 709** | FS1, FS2 |

Material: PA
Scope of delivery: Incl. fastening material (FS)

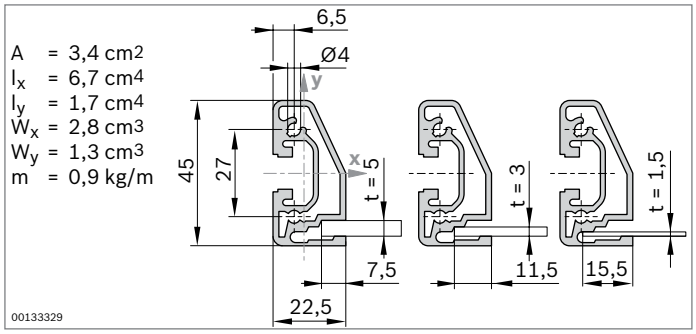



| t (mm) | L2 | A |
|---|---|---|
| 5 | L1+13 | 0 |
| 3 | L1+21 | 15 |
| 1,5 | L1+29 | 23 |

## Frame profile 22.5x45

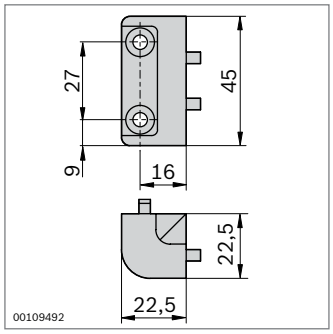
- For inexpensive construction of trays and material shelves
- Panel elements are mounted under tension so that they do not rattle

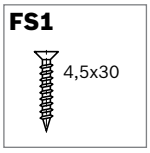
Accessories, optional:
- Bracket set (p. 3-33)
- Swivel mounting (p. 4-14)
- Labeling clip for 10 mm slot (p. 2-95)
- Plate (p. 2-66)




| Frame profile 22.5x45 | Slot | L (mm) | No. |
|---|---|---|---|
| 1 pc | 10 | 50 ... 6070 | **3 842 992 411 / L** |
| 1 pc | 10 | 6070 | **3 842 558 303** |
| 20 pcs | 10 | 6070 | **3 842 557 941** |

Material: Aluminum; anodized



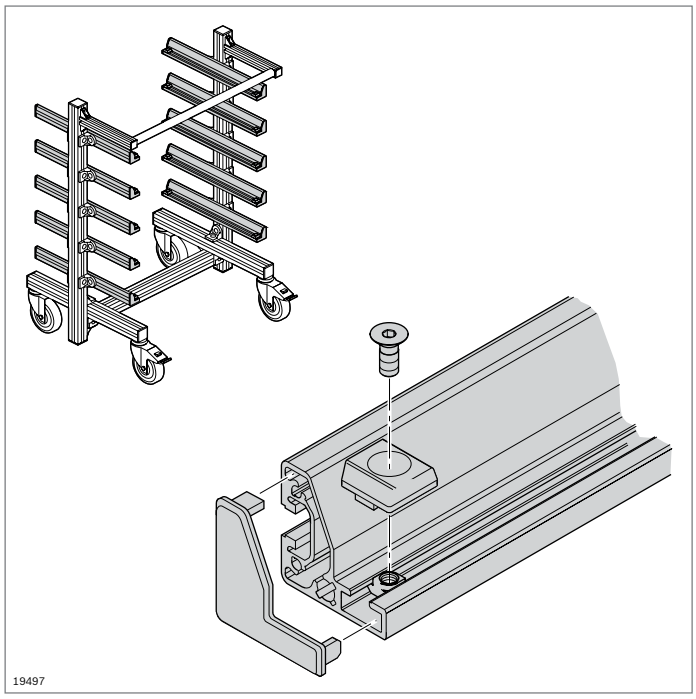




### Corner bracket for frame profile 22.5x45

- For the right-angled connection of two 22.5x45 frame profiles
- Profile finishing not required

| Corner bracket | ESD | | No. | FS |
|---|---|---|---|---|
| **22.5x45** | | 20 | **3 842 535 637** | 4xFS1 |

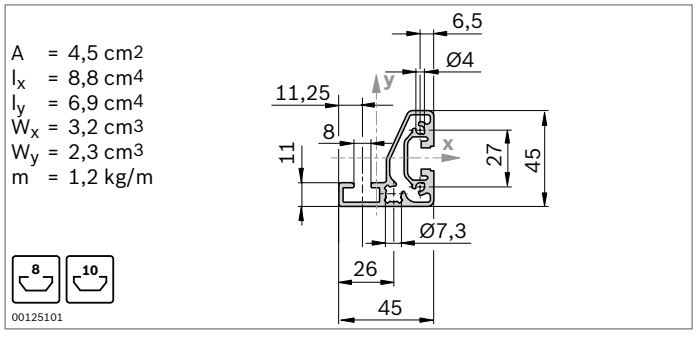
Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)




## Angle profile

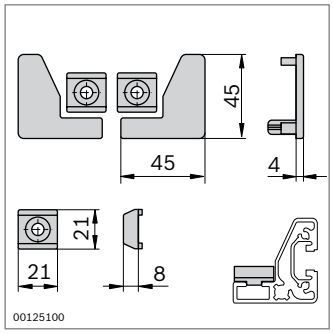
- For supporting containers, plates, or workpiece pallets in flow racks, material shuttles, or hopper stackers

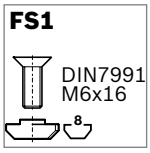
Accessories:
Bracket R40x43 (p. 2-114)




| Angle profile | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 992 412 / L** |
| 1 pc | | 6070 | **3 842 558 304** |
| 20 pcs | | 6070 | **3 842 557 942** |

Material: Aluminum; anodized



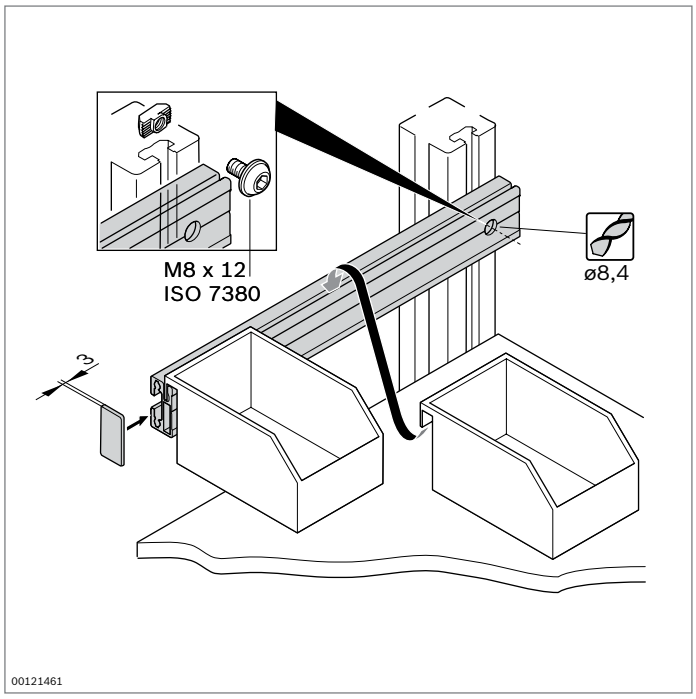




### Stopper and cover cap

- 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 | **3 842 554 490** | 2xFS1 |
| **Set** | Black | | 20 | **3 842 554 491** | 2xFS1 |

Material: PA
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

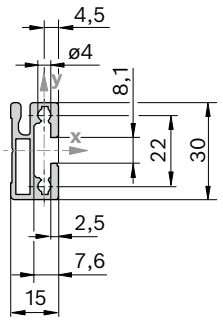



## Suspension profile

- 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)

A = 2,0 cm²
$I_x$ = 2,0 cm⁴
$I_y$ = 0,5 cm⁴
$W_x$ = 2,7 cm³
$W_y$ = 0,3 cm³
m = 0,6 kg/m

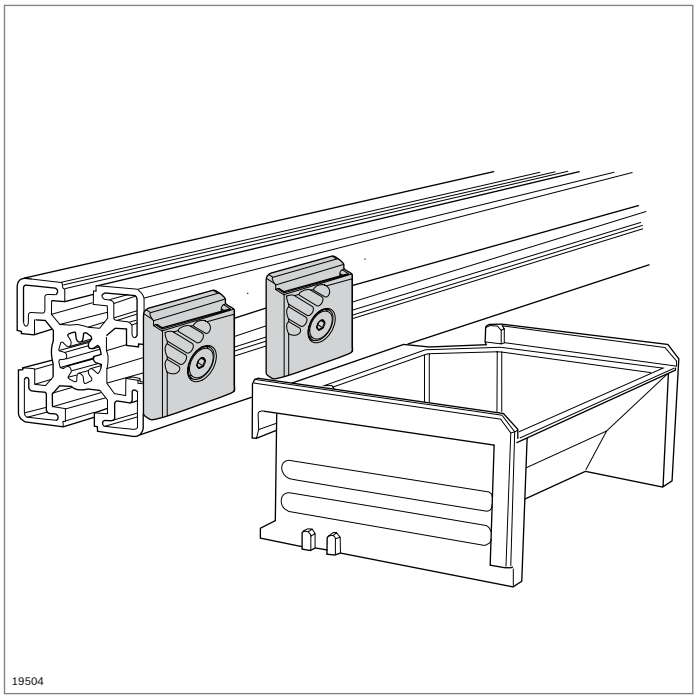



| Suspension profile | | L (mm) | ESD | No. |
|---|---|---|---|---|
| 1 pc | | 50 ... 3000 | | **3 842 993 411 / L** |
| 1 pc | | 3000 | | **3 842 537 680** |
| 10 pcs | | 3000 | | **3 842 537 679** |
| 1 pc | | 50 ... 3000 | ESD | **3 842 993 063 / L** |
| 1 pc | | 3000 | ESD | **3 842 554 156** |
| 10 pcs | | 3000 | ESD | **3 842 554 157** |

Material: Suspension profile: Aluminum; anodized
Suspension profile ESD: Aluminum; natural

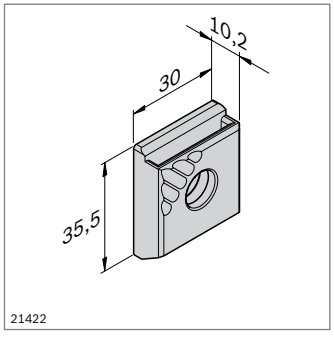
| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **15x30** | Signal gray | | 20 | **3 842 551 582** |
| **15x30** | Black | ESD | 20 | **3 842 551 583** |

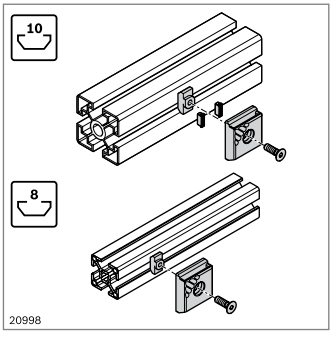
Material: PP

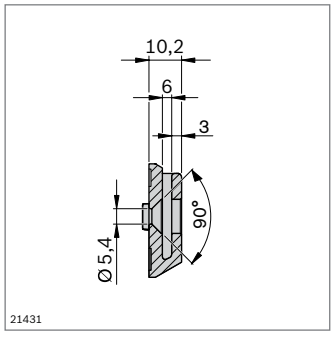



## Container mount

- Container mount for mounting tool holders, grab containers, grab trays and grab ledges
- Suitable for 8 mm and 10 mm slots

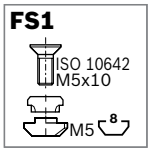


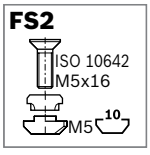



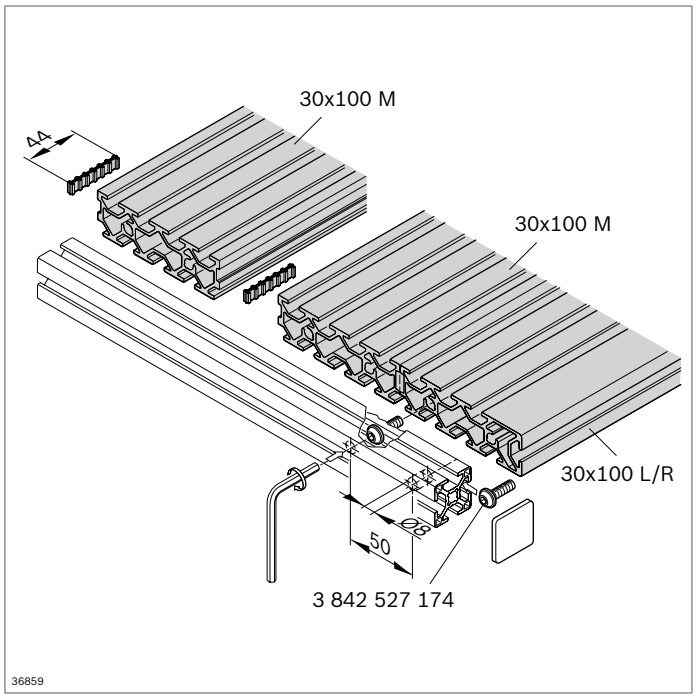




| Container mount | ESD | | No. | FS |
|---|---|---|---|---|
| | ⚠ | 10 | **3 842 544 797** | FS1, FS2 |

Material: PA 66; black
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)



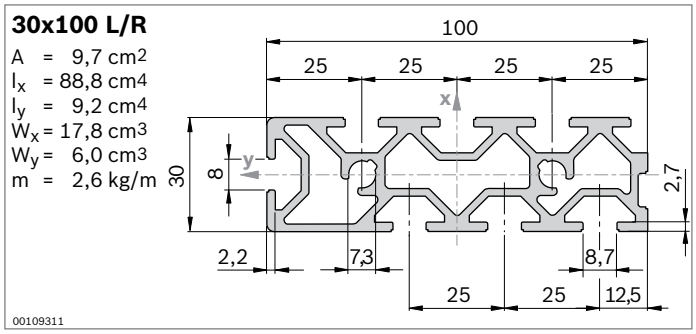






## Slotted plate 30x100

- 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

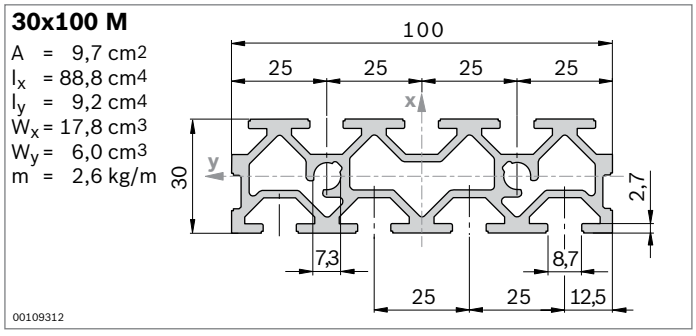
Accessories, optional:
- Profile 30x30 (p. 2-17)
- Sliding block




- 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 | **3 842 993 337 / L** |
| 1 pc | | 8 | 5600 | **3 842 542 695** |
| 18 pcs | | 8 | 5600 | **3 842 542 696** |

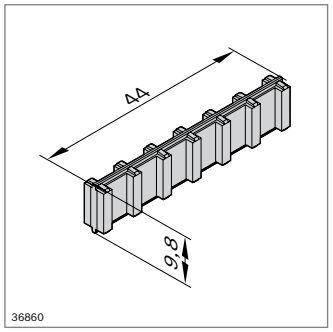
Material: Aluminum; anodized




- Slotted plate **30x100 M** for constructing slotted plates of any width

| Slotted plate 30x100 M | | Slot | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 8 | 100 ... 5600 | **3 842 993 336 / L** |
| 1 pc | | 8 | 5600 | **3 842 542 697** |
| 18 pcs | | 8 | 5600 | **3 842 542 698** |

Material: Aluminum; anodized

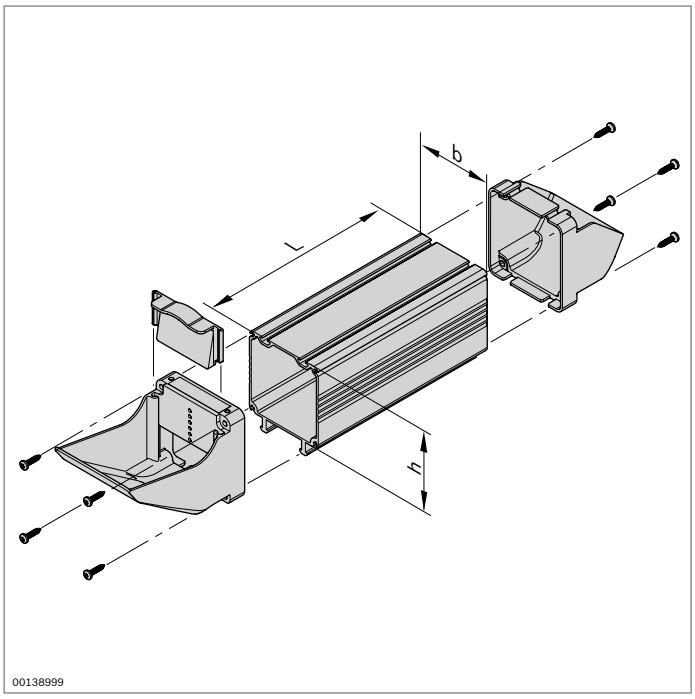



### Sliding block

- For connecting the slotted plates 30x100
- Recommendation: Use 3 sliding blocks per meter of profile length

| Sliding block | | No. |
|---|---|---|
| | 100 | **3 842 520 922** |

Material: PA



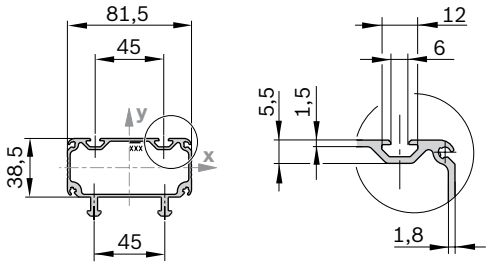
00138999

# 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 cm²
$I_x$ = 20,7 cm⁴
$I_y$ = 54,3 cm⁴
m = 1,8 kg/m



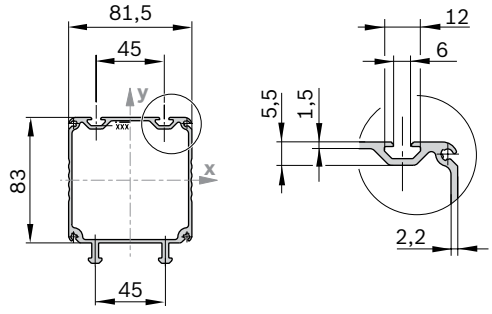
19908

| Material chute 90x45 | | L (mm) | ESD | No. |
|---|---|---|---|---|
| | 1 pc | 50 ... 3000 | | **3 842 993 071 / L** |
| | 3 pcs | 3000 | | **3 842 526 671** |
| | 1 pc | 50 ... 1500 | ESD | **3 842 993 446 / L** |
| | 6 pcs | 1500 | ESD | **3 842 558 332** |

Material: Material chute: Aluminum; anodized
Material chute ESD: Aluminum; coated with Alutin

## 90x90

A = 9,6 cm²
$I_x$ = 118,8 cm⁴
$I_y$ = 88,1 cm⁴
m = 2,5 kg/m



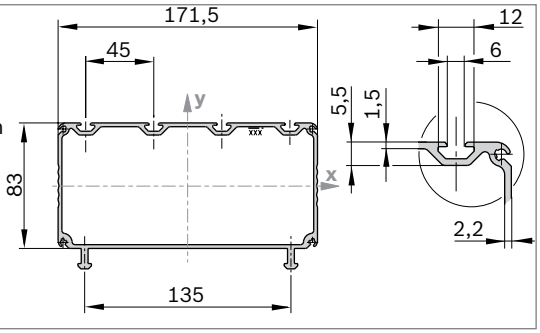
19599

| Material chute 90x90 | | L (mm) | ESD | No. |
|---|---|---|---|---|
| | 1 pc | 50 ... 3000 | | **3 842 993 072 / L** |
| | 3 pcs | 3000 | | **3 842 526 672** |
| | 1 pc | 50 ... 1500 | ESD | **3 842 993 517 / L** |
| | 6 pcs | 1500 | ESD | **3 842 558 333** |

Material: Material chute: Aluminum; anodized
Material chute ESD: Aluminum; coated with Alutin

## 180x90

A = 15,5 cm²
$I_x$ = 208,2 cm⁴
$I_y$ = 597,5 cm⁴
m = 4,2 kg/m

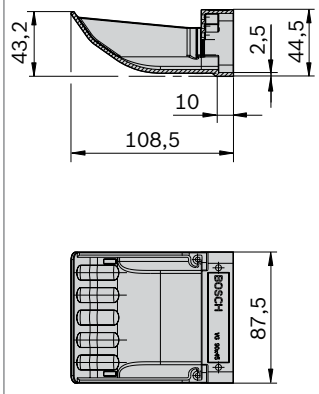


19909

| Material chute 180x90 | | L (mm) | ESD | No. |
|---|---|---|---|---|
| | 1 pc | 50 ... 3000 | | **3 842 993 073 / L** |
| | 3 pcs | 3000 | | **3 842 526 673** |
| | 1 pc | 50 ... 1500 | ESD | **3 842 993 527 / L** |
| | 6 pcs | 1500 | ESD | **3 842 558 334** |

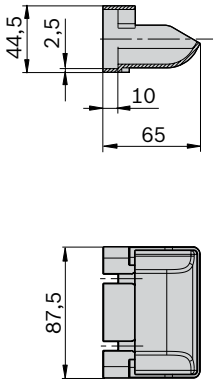
Material: Material chute: Aluminum; anodized
Material chute ESD: Aluminum; coated with Alutin

**90x45**




19925

**90x45**




19926

- Refill end-piece with large opening for easy filling
- Ergonomically designed grab ledge for easy, safe grabbing
- Grab container pusher for closing

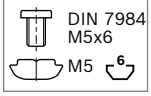
| Grab ledge and refill end-piece | ESD | No. | FS |
|---|---|---|---|
| **90 x 45** | | **3 842 526 626** | 8xFS1, FS2 |
| | ⚠ | **3 842 558 328** | 8xFS1, FS2 |

| | |
|---|---|
| Material: | Grab ledge and refill end-piece Plastic ABS; light gray RAL 7035<br>Grab ledge and refill end-piece ESD: ABS plastic; black, similar to RAL 9005<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |

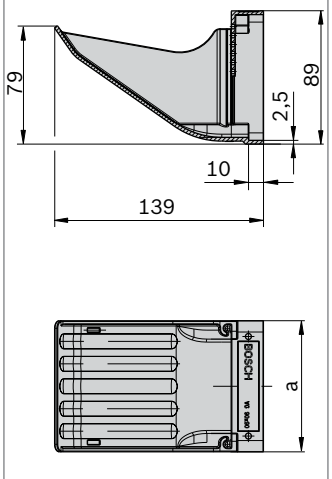
**FS1**




**FS2**



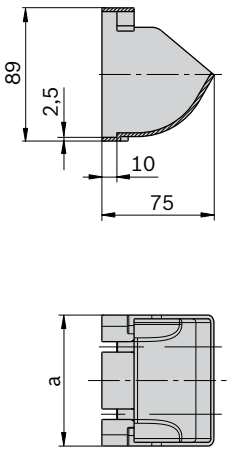

**90x90**
**180x90**




| | 90x90 | 180x90 |
|---|---|---|
| a | 87,5 | 172,5 |

36885

**90x90**
**180x90**




| | 90x90 | 180x90 |
|---|---|---|
| a | 87,5 | 172,5 |

36886

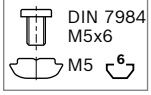
| Grab ledge and refill end-piece | ESD | No. | FS |
|---|---|---|---|
| **90 x 90** | | **3 842 526 627** | 8xFS1, FS2 |
| | ⚠ | **3 842 558 329** | 8xFS1, FS2 |
| **180 x 90** | | **3 842 526 628** | 8xFS1, FS2 |
| | ⚠ | **3 842 558 330** | 8xFS1, FS2 |

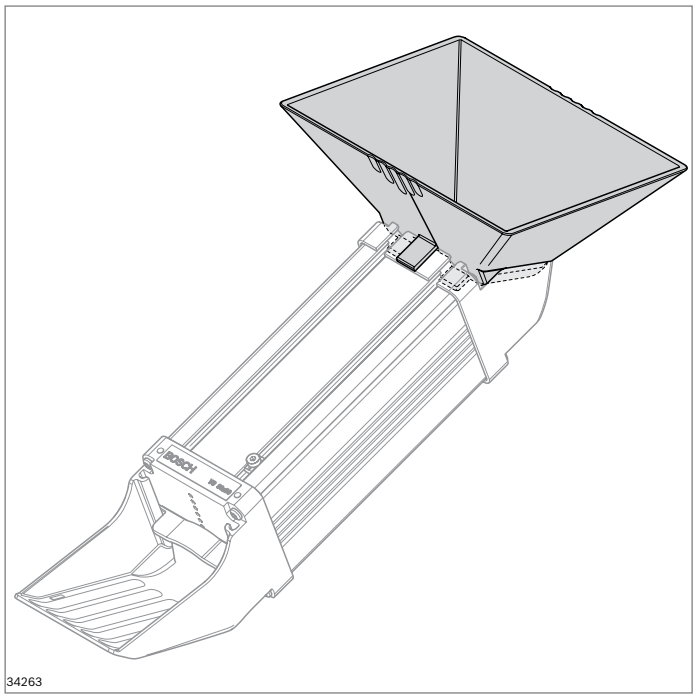
| | |
|---|---|
| Material: | Grab ledge and refill end-piece Plastic ABS; light gray RAL 7035<br>Grab ledge and refill end-piece ESD: ABS plastic; black, similar to RAL 9005<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |

**FS1**




**FS2**

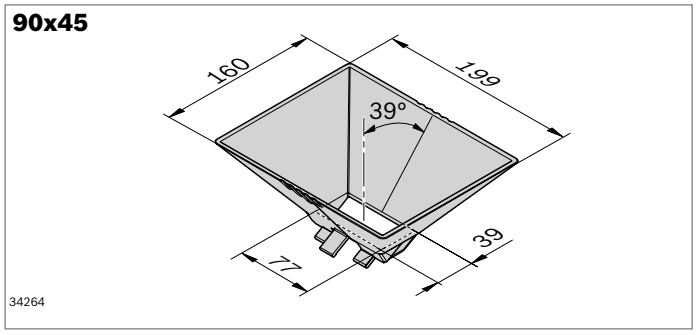





- Hopper for installing on Vario grab container
- Docking aids on the hopper facilitate ergonomic filling
- Easy assembly and dismantling

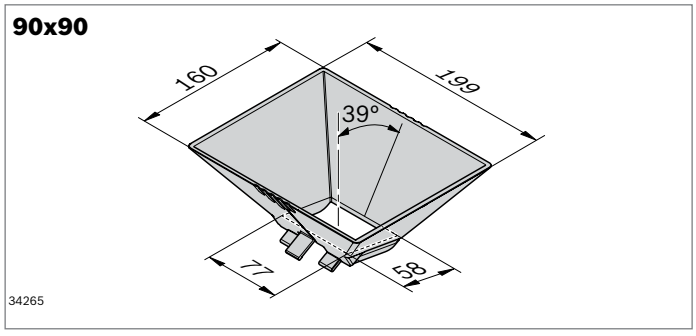
Material:
ABS plastic; light gray (similar to RAL 7035)

**90x45**



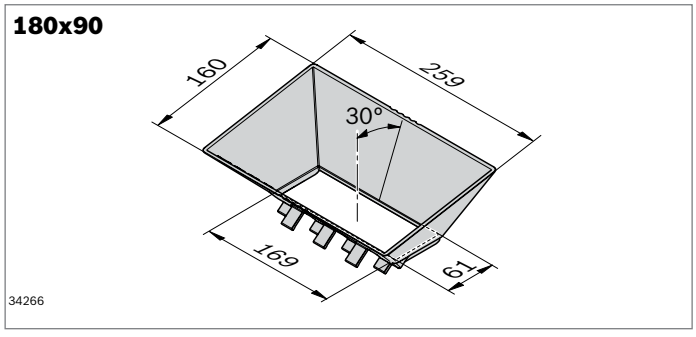

| | Color | ESD | No. |
|---|---|---|---|
| Hopper 90x45 | Gray (RAL 7035) | | **3 842 557 433** |
| | Black | ⚠ | **3 842 564 686** |

**90x90**

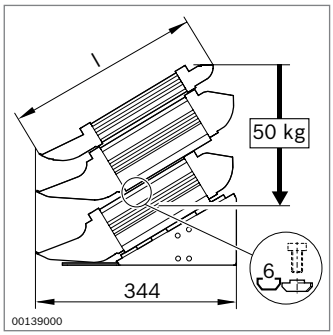



| | Color | ESD | No. |
|---|---|---|---|
| Hopper 90x90 | Gray (RAL 7035) | | **3 842 557 434** |
| | Black | ⚠ | **3 842 564 687** |

**180x90**



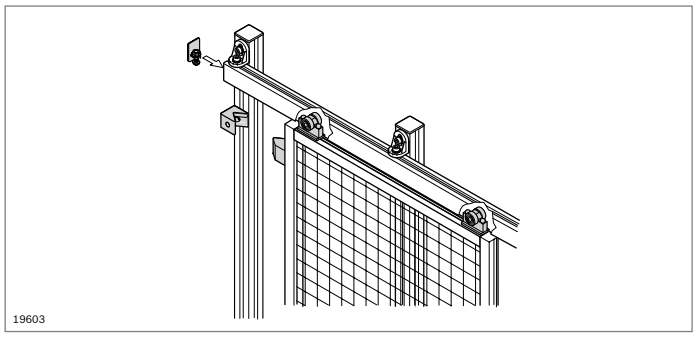

| | Color | ESD | No. |
|---|---|---|---|
| Hopper 180x90 | Gray (RAL 7035) | | **3 842 557 435** |
| | Black | ⚠ | **3 842 564 688** |




▶ Grab container base for an ergonomically optimized arrangement of grab containers

| Grab container base | b x h x l (mm) | ESD | No. |
|---|---|---|---|
| **SG 90** | 90 x 149 x 315 | | **3 842 526 660** |
| | | ⏚ | **3 842 558 331** |
| **SG 180** | 180 x 149 x 315 | | **3 842 526 665** |
| | | ⏚ | **3 842 559 310** |

Material: Grab container base: Sheet steel; light gray powder coating (RAL 7035)
Grab container base ESD: Sheet steel; dusty gray (RAL 7037)

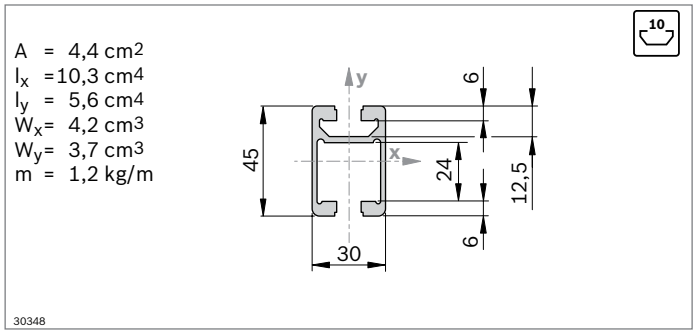



## Profile rail, trolley

- 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)

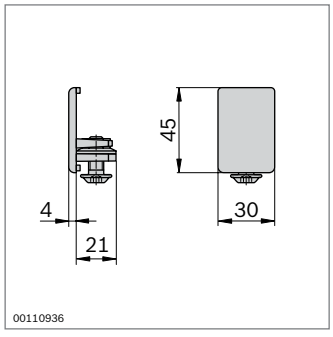
Accessories:

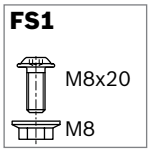
See page 12-4




| Profile rail 30x45C | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 992 946 / L** |
| 1 pc | | 6070 | **3 842 558 312** |
| 20 pcs | | 6070 | **3 842 557 950** |

Material: Aluminum; anodized



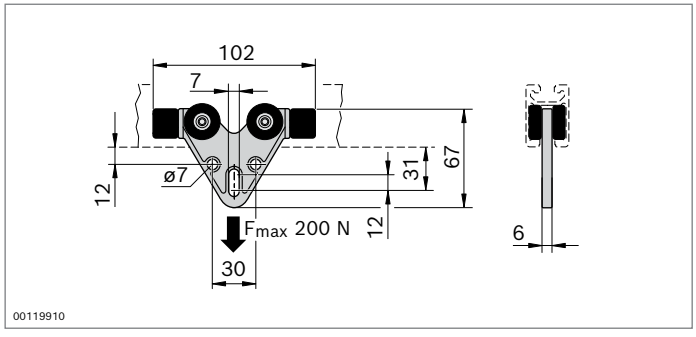




- Profile rail end piece for use for trolley as a cover cap with stop
- With screw protection

| End piece 30x45C | Color | ESD | | No. | FS |
|---|---|---|---|---|---|
| | Signal gray | | 20 | **3 842 554 710** | FS1 |
| | Black | | 20 | **3 842 554 711** | FS1 |

Material: End piece: PA
Fastening material: Steel; zinc-plated

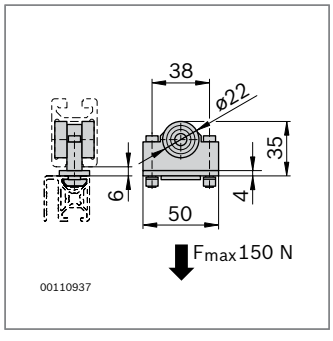
Scope of delivery: Incl. fastening material (FS)

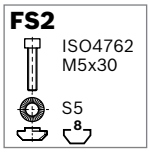



- Trolley with eye, e.g. for suspending a snap hook

| Trolley for profile rail 30x45C | | No. |
|---|---|---|
| | 1 | **3 842 521 510** |

Material: Trolley: PA 6; black
Cam roller: POM; natural
Rubber buffer: NK/SBR; black



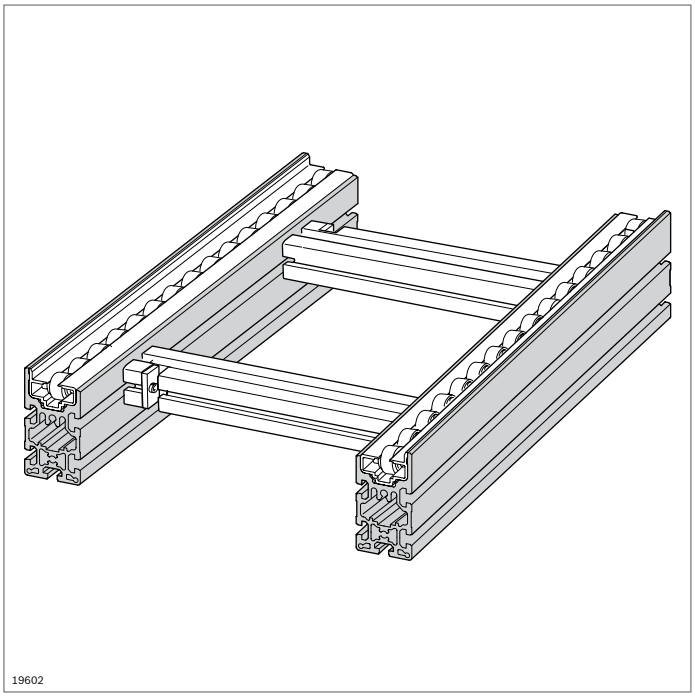




- Trolley with dust-proof ball bearings for smooth sliding motion
- For fastening profiles with a 8 mm slot

| Trolley | | No. | FS |
|---|---|---|---|
| | 1 | **3 842 524 153** | 2xFS2 |

Material: PA; black / steel, zinc-plated
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)



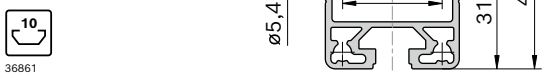

## Profiles for installing conveyor media

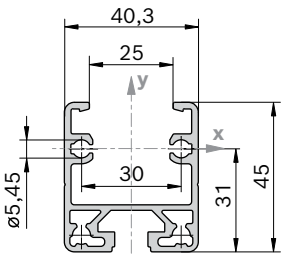



- Profiles that are normally used to construct the transfer systems TS 2*plus* and TS 4, as well as Lean conveyor sections, are also suitable for the construction of manual conveyor sections. Detailed information is available in chapter 12 “Elements for manual movement” and in the respective special catalogs

### U-profile

A = 4,4 cm²
$I_x$ = 10,4 cm⁴
$I_y$ = 8,3 cm⁴
$W_x$ = 4,6 cm³
$W_y$ = 4,1 cm³
m = 1,2 kg/m



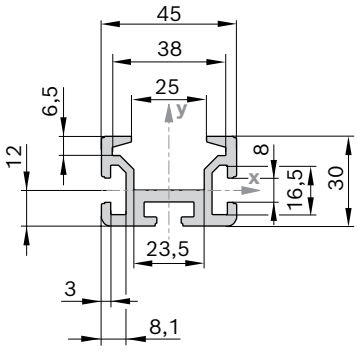

| U-profile | | Slot | L (mm) | ESD | No. |
|---|---|---|---|---|---|
| 1 pc | | 10 | 50 ... 6070 | | **3 842 993 316 / L** |
| 1 pc | | 10 | 6070 | | **3 842 564 223** |
| 20 pcs | | 10 | 6070 | | **3 842 535 115** |
| 1 pc | | 10 | 50 ... 6070 | ESD | **3 842 995 027 / L** |
| 20 pcs | | 10 | 6070 | ESD | **3 842 541 814** |

Material: U-profile: Aluminum, anodized
U-profile ESD: Aluminum; untreated

### SP 2/R

A = 5,2 cm²
$I_x$ = 4,3 cm⁴
$I_y$ = 11,7 cm⁴
$W_x$ = 2,4 cm³
$W_y$ = 5,2 cm³
m = 1,4 kg/m



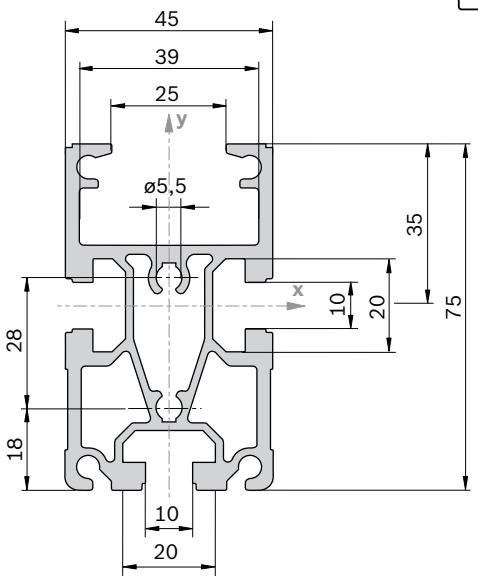




| Section profile SP 2/R | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 992 676** |
| 1 pc | | 6070 | **3 842 508 553** |

Material: Aluminum; anodized

## SP 2/B

A = 10,4 cm²
$I_x$ = 49,6 cm⁴
$I_y$ = 25,8 cm⁴
$W_x$ = 12,1 cm³
$W_y$ = 11,5 cm³
m = 2,8 kg/m



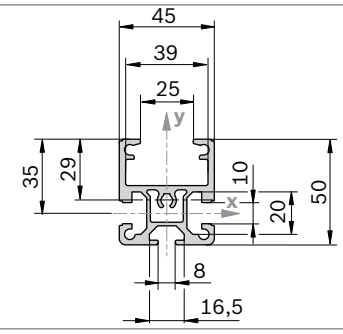

19903

| Section profile SP 2/B | | Slot | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 10 | 200 ... 6070 | **3 842 992 884 / L** |
| 1 pc | | 10 | 6070 | **3 842 532 698** |
| 16 pcs | | 10 | 6070 | **3 842 532 695** |

Material: Aluminum; anodized

## SP 2/B-50

A = 6,9 cm²
$I_x$ = 16,1 cm⁴
$I_y$ = 16,9 cm⁴
$W_x$ = 5,3 cm³
$W_y$ = 7,5 cm³
m = 1,9 kg/m



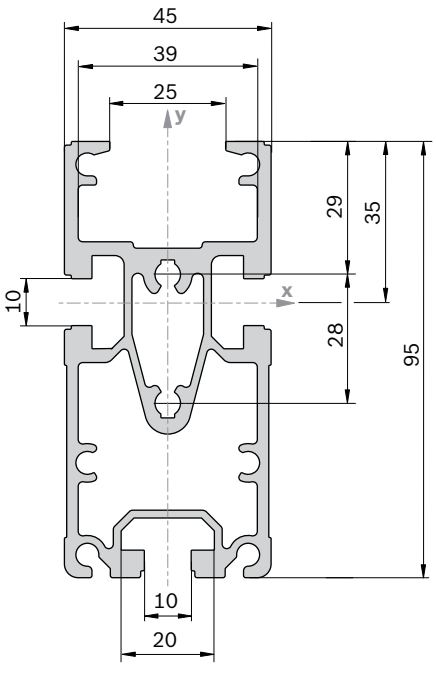

19904

| Section profile SP 2/B-50 | | Slot | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 8 / 10 | 200 ... 6070 | **3 842 992 903 / L** |
| 1 pc | | 8 / 10 | 6070 | **3 842 532 670** |
| 20 pcs | | 8 / 10 | 6070 | **3 842 532 697** |

Material: Aluminum; anodized

## SP 2/B-100

A = 11,9 cm²
$I_x$ = 95,1 cm⁴
$I_y$ = 30,4 cm⁴
$W_x$ = 20,0 cm³
$W_y$ = 13,5 cm³
m = 3,2 kg/m



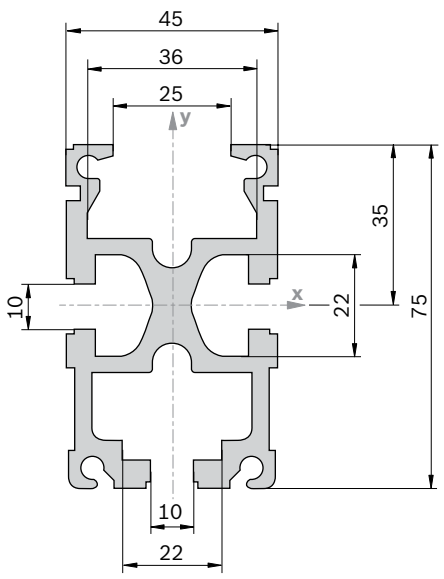

19905

| Section profile SP 2/B-100 | | Slot | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 10 | 200 ... 6070 | **3 842 993 259 / L** |
| 1 pc | | 10 | 6070 | **3 842 532 592** |
| 16 pcs | | 10 | 6070 | **3 842 532 608** |

Material: Aluminum; anodized

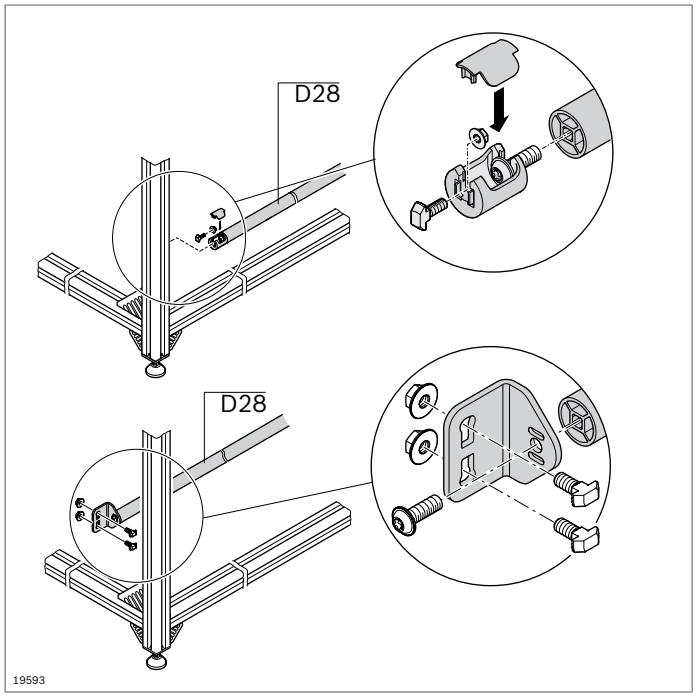
**SP 2/BH**

A = 12,4 cm²
$I_x$ = 53,7 cm⁴
$I_y$ = 28,6 cm⁴
$W_x$ = 14,0 cm³
$W_y$ = 13,8 cm³
m = 3,3 kg/m



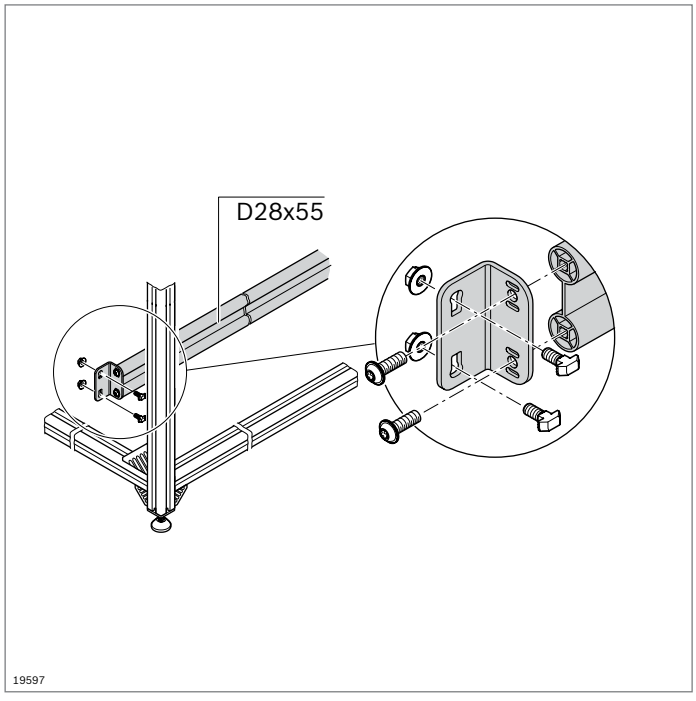

| Section profile SP 2/BH | | Slot | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 10 | 200 ... 6070 | **3 842 990 409 / L** |
| 1 pc | | 10 | 6070 | **3 842 532 699** |
| 16 pcs | | 10 | 6070 | **3 842 532 696** |

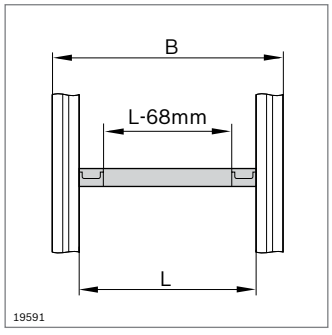
Material: Aluminum; anodized

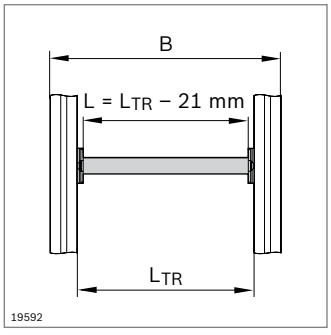



## Round tube D28, strut profile D28x55 bracket, T-connector Bracket, T-connector

- 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”

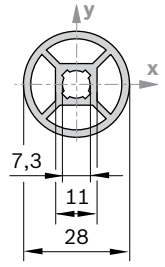


**D28**

A = 2,4 cm²
$I_x$ = 1,5 cm⁴
$I_y$ = 1,5 cm⁴
$W_x$ = 1,1 cm³
$W_y$ = 1,1 cm³
m = 0,7 kg/m

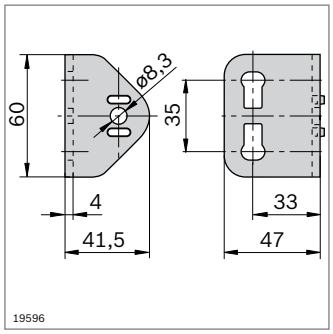



19505

| 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** |

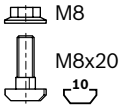
Material: Aluminum; anodized
Accessories, optional: Labeling clip (p. 2-95)

| Cover cap D28 | Color | ESD | | No. |
|---|---|---|---|---|
| | Gray | | 20 | **3 842 537 718** |
| | Black | | 20 | **3 842 535 835** |

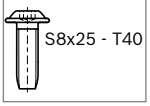



19596

**FS1**




**FS2**

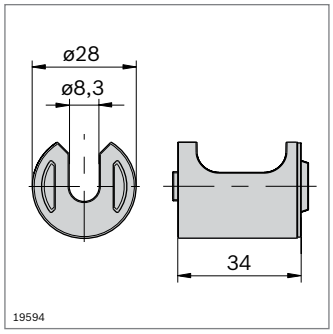



### Holding bracket for round tube D28

- 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

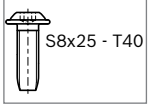
| Bracket 60x47x4 | | No. | FS |
|---|---|---|---|
| | 20 | **3 842 536 002** | 2xFS1, FS2 |

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

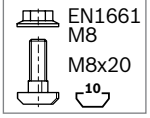



19594

**FS2**




**FS3**




### T-connector for round tube D28

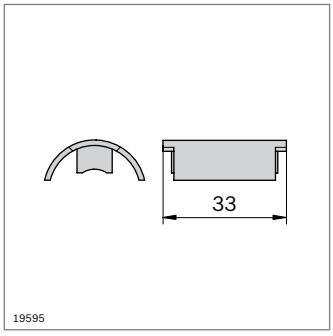
- For mounting a round tube D28 to a strut profile with a 10 mm slot
- Without interfering contours

| 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** |

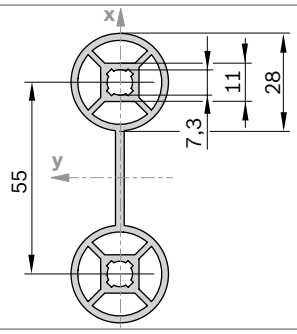
Material: ABS; black




19595

**D28x55**

A = 5,9 cm²
$I_x$ = 3,2 cm⁴
$I_y$ = 88,3 cm⁴
$W_x$ = 2,3 cm³
$W_y$ = 23,1 cm³
m = 1,6 kg/m

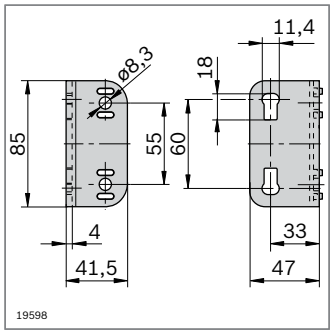



19468

| Strut profile D28x55 | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 100 ... 6070 | **3 842 993 489 / L** |
| 1 pc | | 6070 | **3 842 564 214** |
| 20 pcs | | 6070 | **3 842 537 477** |

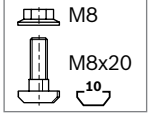
Material: Aluminum; anodized
Accessories, optional: Labeling clip (p. 2-95)

| Cover cap D28 | Color | ESD | | No. |
|---|---|---|---|---|
| (2x) | Gray | | 20 | **3 842 537 718** |
| (2x) | Black | | 20 | **3 842 535 835** |




19598

**FS1**




**FS2**




**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

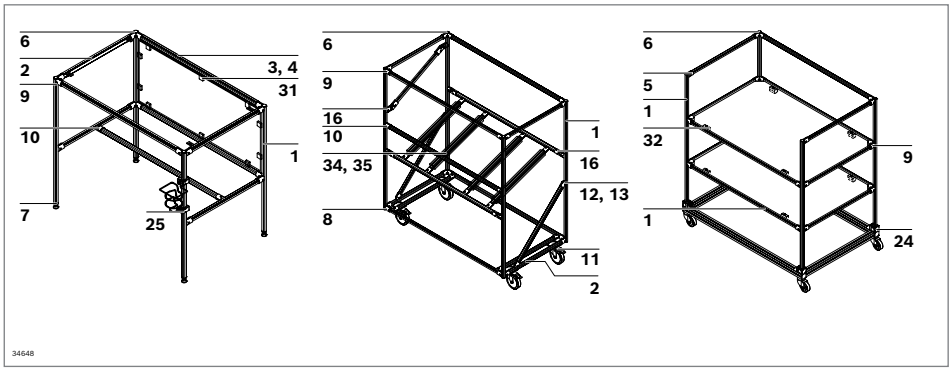
| Bracket 85x47x4 | | No. | FS |
|---|---|---|---|
| | 20 | **3 842 536 730** | 2xFS1, 2xFS2 |

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



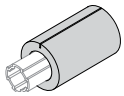
## EcoShape tubular framing system

- 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



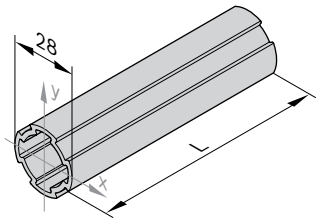

### Few components – countless options

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.

| | | | |
|---|---|---|---|
| **1**<br>**Round tube**<br>**D28L**  | **2**<br>**Round tube**<br>**D28L, N10**  | **3**<br>**Slide rail**<br>**D28L**  | **4**<br>**Slide rail**<br>**D28L, SF**  |
| **5**<br>**Cover cap**<br>**D28L**  | **6**<br>**Cover cap**<br>**D28L, N10**  | **7**<br>**Threaded sleeve**<br>**D28L, PA**  | **8**<br>**Threaded sleeve**<br>**D28L, M12**  |
| **9**<br>**90°**<br>**Connector**<br>**D28L**  | **10**<br>**90°**<br>**Connector D28L,**<br>**inside**  | **11**<br>**Parallel**<br>**connector D28L**  | **12**<br>**45°**<br>**Connector D28L**  |
| **13**<br>**45°**<br>**Connector D28L,**<br>**inside**  | **14**<br>**Strut**<br>**D28L, 45°**  | **15**<br>**Cross connector**<br>**D28L**  | **16**<br>**0°-90°**<br>**Connector D28L**  |
| **17**<br>**0°-90°**<br>**Connector**<br>**D28L**  | **18**<br>**Corner bracket**<br>**D28L**  | **19**<br>**90°**<br>**connector R25,**<br>**inside**  | **20**<br>**Swivel bearing**<br>**D28L**  |
| **21**<br>**Bushing**  | **22**<br>**Retaining ring**<br>**D28L**  | **23**<br>**Adapter**<br>**N8, N10**  | **24**<br>**Adapter**<br>**N10/45**  |
| **25**<br>**Adapter**<br>**N10/30**  | **26/1**<br>**Adapter mount D28L**  <br>**26/2**<br>**Container mount**  | **27**<br>**Adapter**<br>**XLean**  | **28**<br>**Tube clamp**<br>**D28L, N10**  |
| **29**<br>**Hinge**<br>**D28L/D28L**  | **30**<br>**Hinge**<br>**D28L/–**  | **31**<br>**Variofix**<br>**block PA**  | **32**<br>**Variofix**<br>**block Zn**  |
| **33**<br>**Mounting**<br>**bracket**<br>**D28L**  | **34**<br>**Impact**<br>**protection**  | **35**<br>**Impact**<br>**protection**<br>**D28L**  | **36**<br>**Ring**<br>**D50**  |
| **37**<br>**Rubber foot**<br>**D28**  | **38**<br>**Stopper**<br>**D28L, N10**  | **39/40**<br>**EcoShape**<br>**base plate**  | **41**<br>**Tension wire**  |

**1**

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




36996

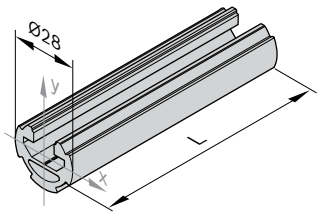
- Round tube D28L with 4 interfaces for attaching EcoShape connectors

| Round tube D28L | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 994 291/L** |
| 50 pcs | | 6070 | **3 842 567 384** |
| 1 pc | | 6070 | **3 842 567 386** |
| Material: | Aluminum; anodized | | |

**2**

A = 2,6 cm²
$I_x$ = 1,0 cm⁴
$I_y$ = 2,0 cm⁴
$W_x$ = 1,4 cm³
$W_y$ = 0,8 cm³
m = 0,7 kg/m

10

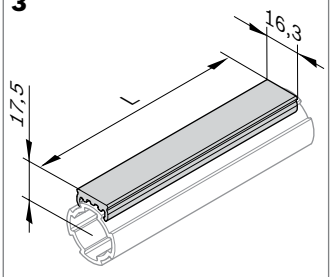



36997

- 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 | **3 842 994 292/L** |
| 20 pcs | | 6070 | **3 842 567 385** |
| 1 pc | | | **3 842 567 387** |
| Material: | Aluminum; anodized | | |

**3**



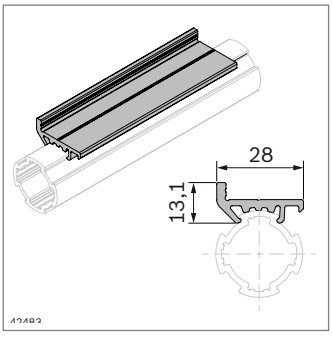

00134987

- 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 | **3 842 554 750** |
| Black | | 2000 | | 10 | **3 842 548 117** |
| Material: | PVC | | | | |

**4**

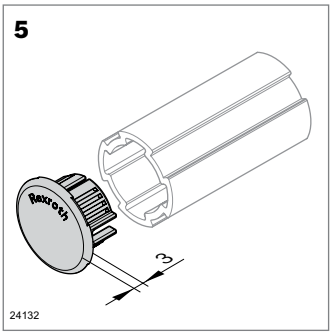





- Slide rail with lateral guide for creating a simple conveyor track or manual slide section by clipping the slide rail onto the round tube D28L or D28L, N10

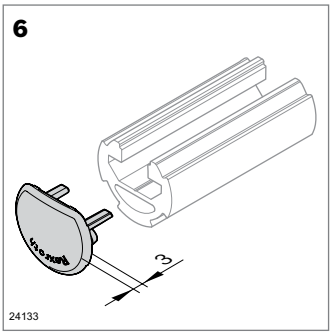
| Slide rail D28L SF | | L (mm) | ESD | | No. |
|---|---|---|---|---|---|
| Signal gray | | 2000 | | 10 | **3 842 567 346** |
| Black | | 2000 | | 10 | **3 842 567 347** |
| Material: | PVC | | | | |

**5**




24132

**6**

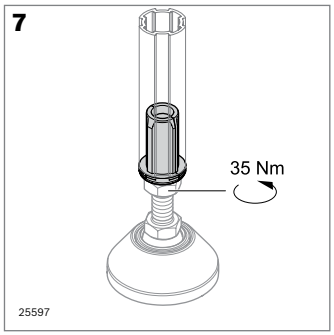


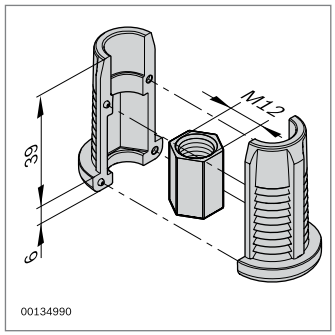

24133

- Cover cap for round tube D28L and D28L, N10

| Cover cap | | | ESD | | No. |
|---|---|---|---|---|---|
| **5** | D28L | Signal gray | | 20 | **3 842 554 752** |
| | | Black | | 20 | **3 842 548 129** |
| **6** | D28L, N10 | Signal gray | | 20 | **3 842 554 754** |
| | | Black | | 20 | **3 842 548 130** |
| Material: | PA6, PA666 (conductive) | | | | |

**7**



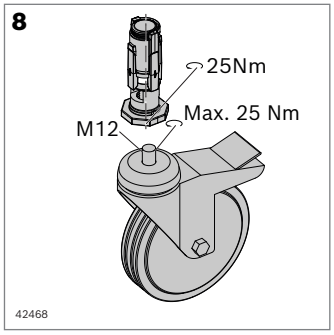



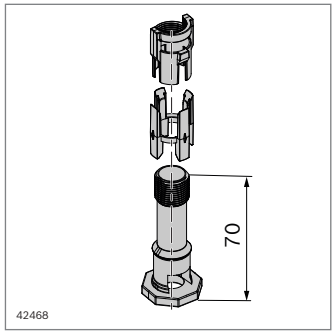

▶ Threaded sleeve for incorporating a leveling foot or castor wheel

| Threaded sleeve D28L, PA | ESD | | No. |
|---|---|---|---|
| Black | | 20 | **3 842 541 185** |

Material: PA66
Hexagon nut: Aluminum

**8**



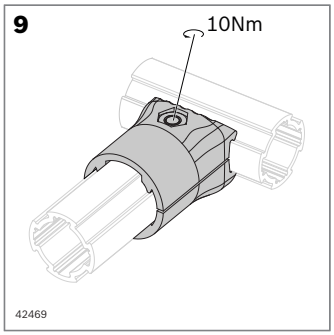



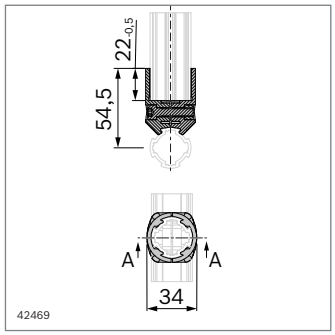

▶ Threaded sleeve for incorporating a leveling foot or castor wheel for dynamic loads

| Threaded sleeve D28L, M12 | ESD | | No. |
|---|---|---|---|
| | | 20 | **3 842 567 349** |

Material: Die-cast aluminum / galvanized steel

**9**



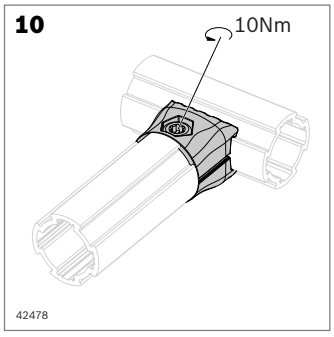



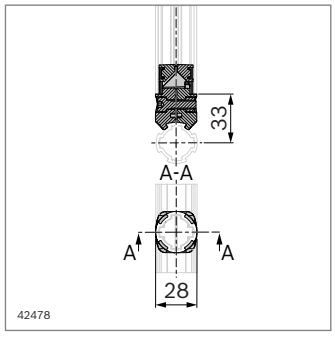

| 90° connector D28L | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 567 339** | FS1 |

Material: Diecast aluminum
Scope of delivery: Incl. fastening material (FS)

**FS1**
ISO14579 M6x25
DIN EN ISO7042 M6

**10**



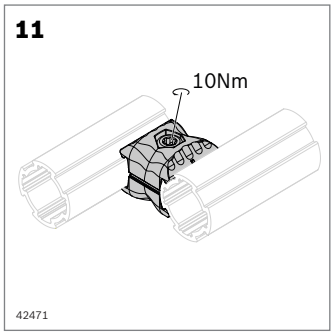



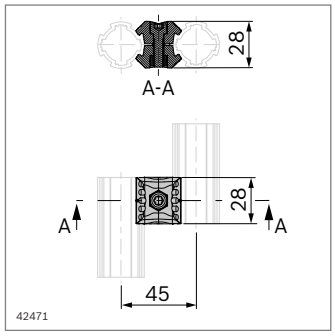

| 90° connector D28L, inside | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 567 341** | FS2 |

Material: Diecast aluminum
Scope of delivery: Incl. fastening material (FS)

**FS2**
ISO14579 M6x20
DIN EN ISO7042 M6

**11**



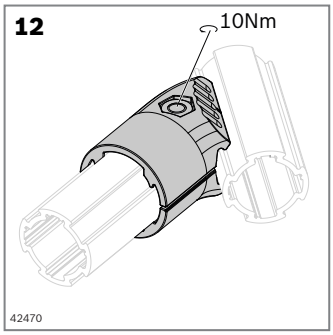



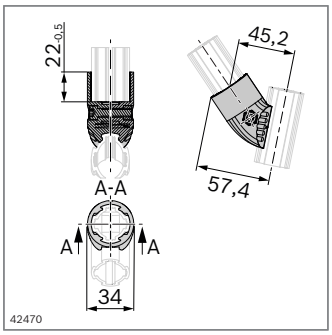

| Parallel connector D28L | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 567 350** | FS2 |

Material: Diecast aluminum
Scope of delivery: Incl. fastening material (FS)

**FS2**
ISO14579 M6x25
DIN EN ISO7042 M6

**12**



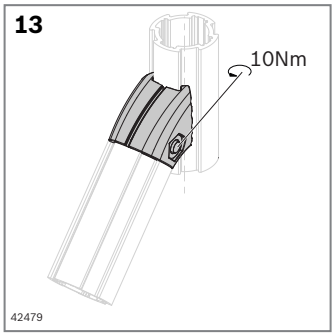



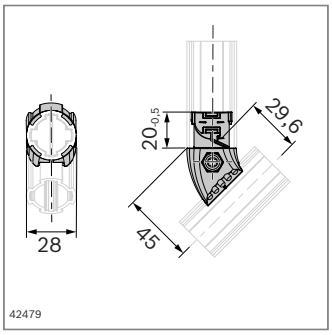

| 45° connector D28L | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 567 340** | FS1 |

Material: Diecast aluminum
Scope of delivery: Incl. fastening material (FS)

**FS1**
ISO14579 M6x25
DIN EN ISO7042 M6

**13**



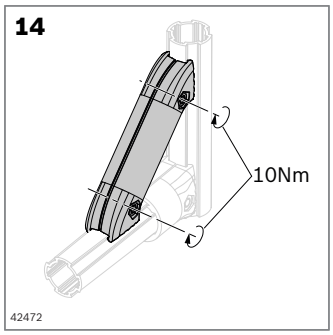



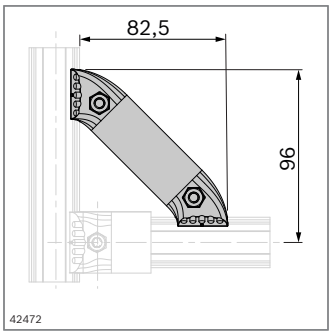

| 45° connector D28L, inside | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 567 342** | FS2 |

Material: Diecast aluminum
Scope of delivery: Incl. fastening material (FS)

**FS2**
ISO14579 M6x20
DIN EN ISO7042 M6

**14**



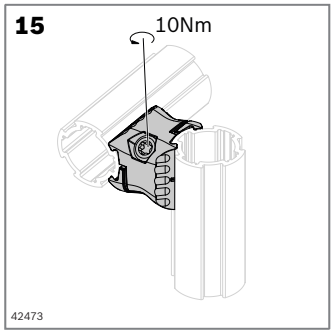



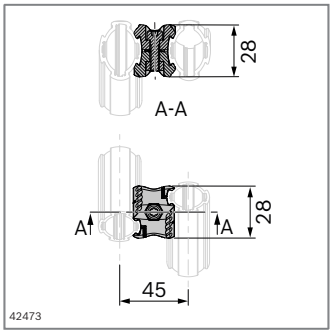

| Strut D28L, 45° | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 567 351** | 2xFS2 |

Material: Diecast aluminum
Scope of delivery: Incl. fastening material (FS)

**FS2**
ISO14579 M6x20
DIN EN ISO7042 M6

**15**



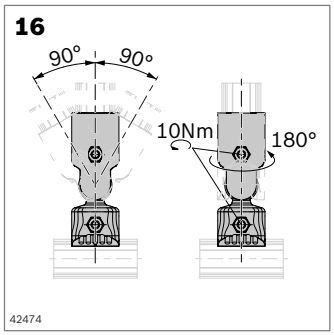



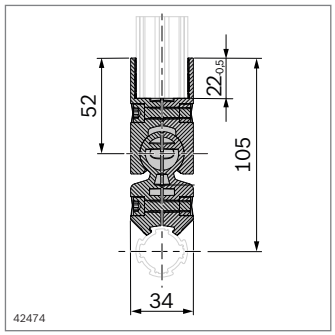

| Cross connector D28L | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 567 352** | FS2 |

Material: Diecast aluminum
Scope of delivery: Incl. fastening material (FS)

**FS2**
ISO14579 M6x20
DIN EN ISO7042 M6

**16**



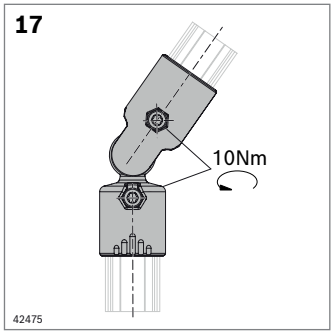



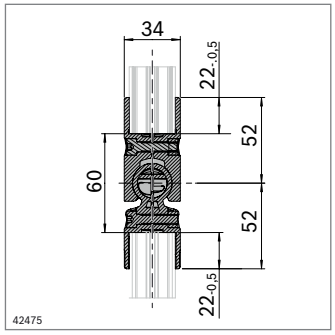

| 0°-90° connector D28L | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 567 353** | 2xFS1 |

Material: Diecast aluminum
Scope of delivery: Incl. fastening material (FS)

**FS1**
ISO14579 M6x25
DIN EN ISO7042 M6

**17**



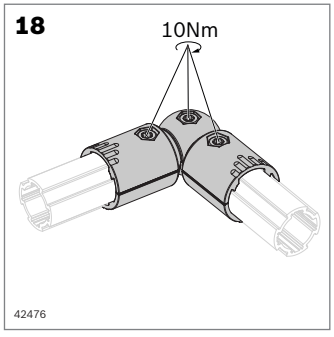



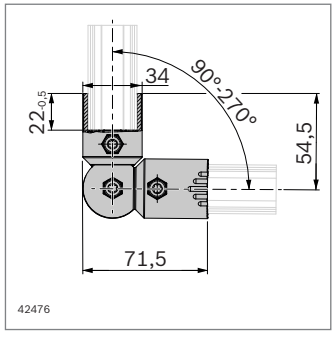

| 0°-90° connector D28L | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 567 390** | 2xFS1 |

Material: Diecast aluminum
Scope of delivery: Incl. fastening material (FS)

**FS1**
ISO14579 M6x25
DIN EN ISO7042 M6

**18**



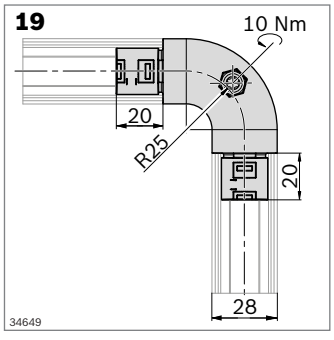

- Corner bracket D28L for easy adjustment within a 15° range
- Swivel range: 90°–270°

| 90°-270° corner bracket D28L | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 567 355** | 3xFS1 |

Material: Diecast aluminum
Scope of delivery: Incl. fastening material (FS)

**FS1**
ISO14579 M6x25
DIN EN ISO7042 M6

**19**

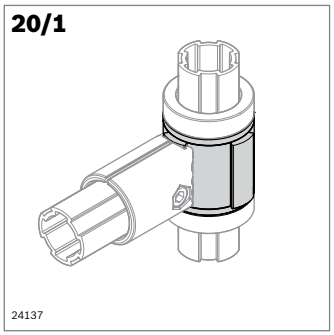


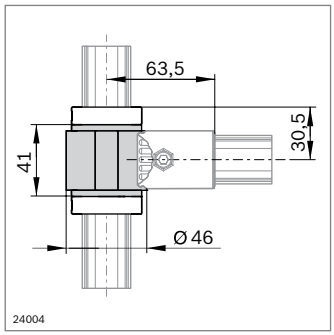

| 90° connector R25, inside | | No. | FS |
|---|---|---|---|
| | 20 | **3 842 567 381** | FS2 |

Material: Diecast aluminum
Scope of delivery: Incl. fastening material (FS)

**FS2**
ISO14579 M6x20
DIN EN ISO7042 M6

**20/1**



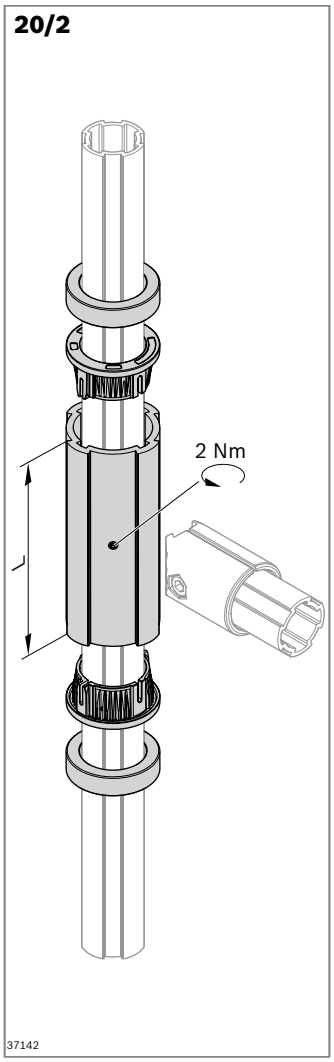

- For axial shifting along the round tube D28L or D28L, N10. End position defined via retaining ring
- Construction of swiveling applications
- Additional thread for flexible bracket adjustment

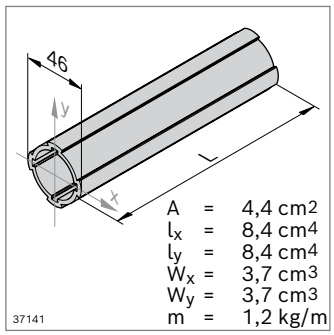
Required accessories:
- Retaining ring D28L

| **Swivel bearing D28L** | **L** (mm) | | **No.** |
|---|---|---|---|
| | 34 | 20 | **3 842 548 121** |

| | |
|---|---|
| Material: | Swivel bearing: Aluminum |
| Scope of delivery: | Swivel bearing D28L, L = 34 mm; bushing D28 (17), headless setscrew ISO 4026 M4x10 |

**20/2**



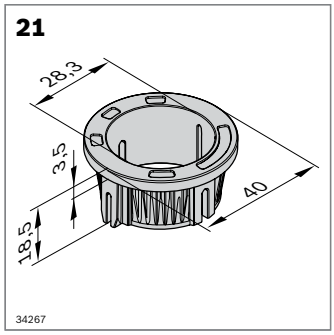




For self-assembly:
- Swivel bearing D28L with L = 1000 mm, can be cut to length

| **Swivel bearing D28L** | **L** (mm) | | **No.** |
|---|---|---|---|
| | 1000 | 2 | **3 842 557 298** |

| | |
|---|---|
| Material: | Aluminum |

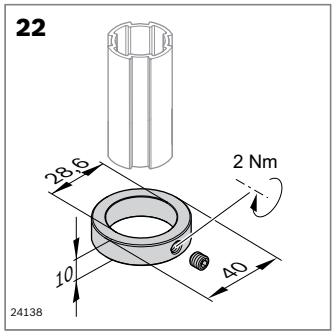
**21**




| **Bushing D28** | | **No.** |
|---|---|---|
| | 4 | **3 842 557 299** |

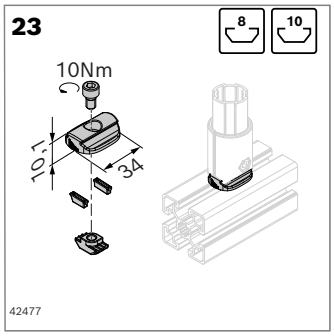
| | |
|---|---|
| Material: | POM; black |

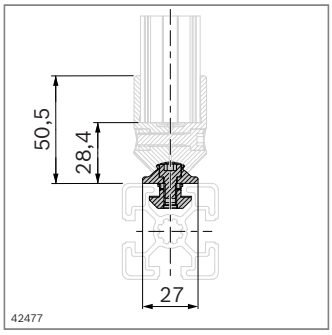
**22**




| **Retaining ring D28L** | **ESD** | | **No.** |
|---|---|---|---|
| | | 4 | **3 842 548 122** |

| | |
|---|---|
| Material: | Aluminum |
| Scope of delivery: | Retaining ring incl. headless setscrew DIN 913 M6x6 |



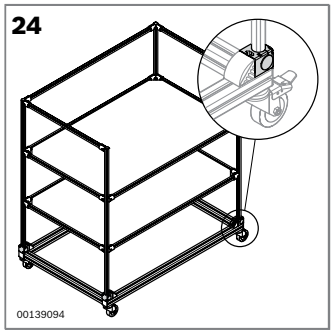

- Adapter N8, N10 for connection to a Rexroth strut profile (8 mm slot, 10 mm slot)

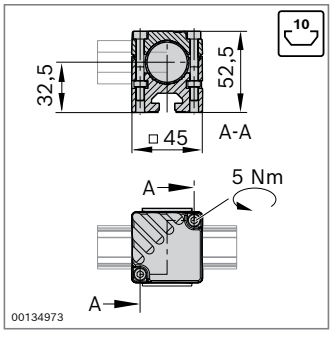
| Adapter N8, N10 | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 567 354** | FS4, FS5 |

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

**FS4**
ISO14579 M6x10
M6 8

**FS5**
ISO14579 M6x12
2x M6 10



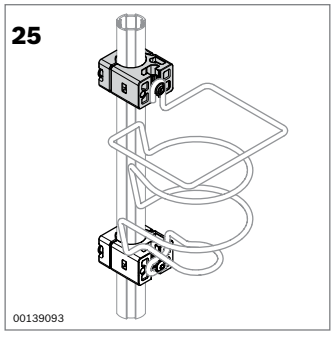



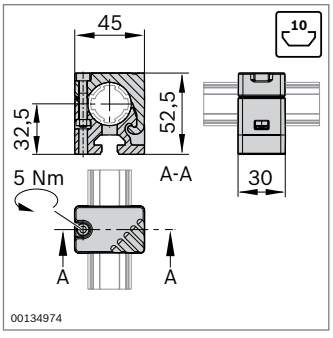

- Adapter N10/45 for connecting round tube D28L or D28L, N10 to a profile with 10 mm slot

| 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)

**FS3**
ISO 4762 M5x40
DIN 934 M5



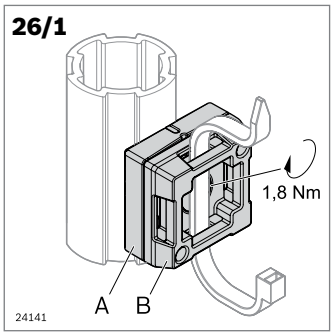



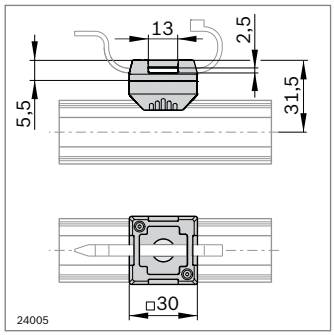

- Adapter N10/30 for fastening light accessories, such as a bottle holder to a round tube D28L

| Adapter N10/30 | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 541 190** | **FS6** |

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

**FS6**
ISO 4762 M5x30
DIN 934 M5



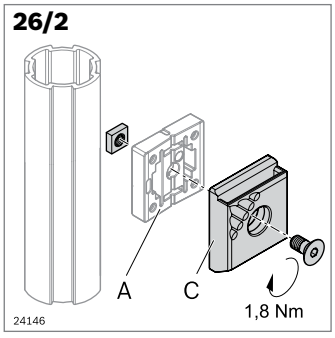



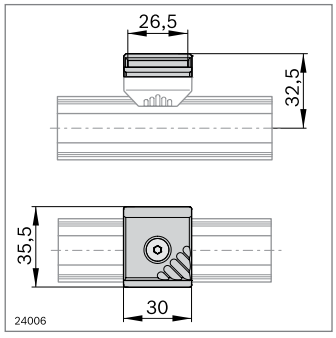

- For attaching cable ties

| Adapter mount D28L | | No. | FS |
|---|---|---|---|
| A + B | 20 | **3 842 548 120** | FS7 |

Material: PA66; black
Scope of delivery: Incl. fastening material (FS)

**FS7**
ISO 10642
M5x10



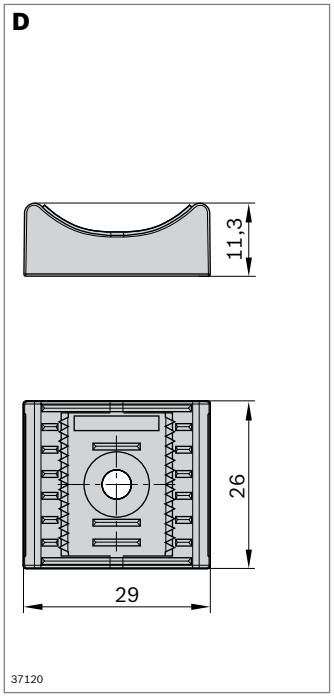

- For attaching containers using the container mount

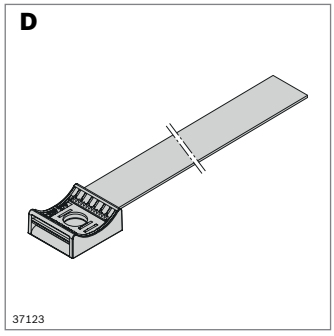
| Container mount | ESD | | No. | FS |
|---|---|---|---|---|
| C | | 10 | **3 842 544 797** | FS8, FS12 |

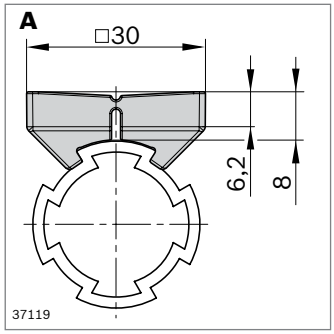
Material: PA66; black
Scope of delivery: Incl. fastening material (FS)

**FS8**
ISO 10642
M5x10
M5 8

**FS9**
ISO 10642
M5x16
M5 10



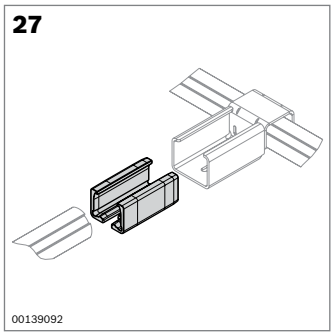

- Loop flat cable bracket (**D**) for direct assembly on panel element or table top
- Can be mounted on adapter D28L (**A**) for attachment to EcoShape profiles
- Can be used with M4 and M5 screws
- Adapter for attaching loop flat cable holder to EcoShape profiles
- Adapter D28L (**A**) for fastening of container mount

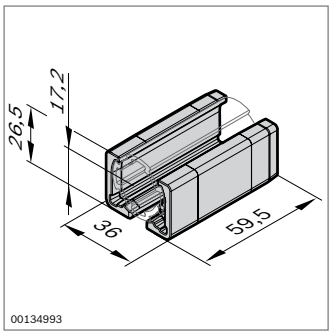
| Cable bracket + adapter | ESD | | No. | FS |
|---|---|---|---|---|
| **D** Cable bracket loop flat | | 10 | **3 842 559 380** | |
| **A** Adapter D28L | | 10 | **3 842 562 115** | FS7 |

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)

**FS7**
ISO 10642
M5x10

**27**



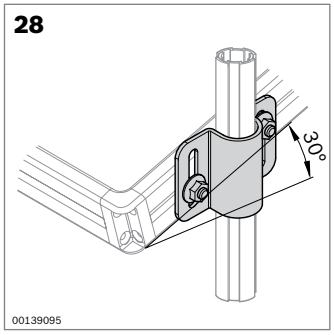



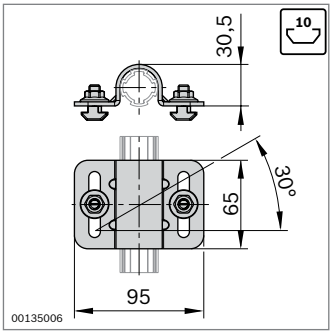

- Adapter XLean for combination with XLean. The adapter XLean connects the round tube D28L to the rail holder XLean

| Adapter XLean | ESD | | No. |
|---|---|---|---|
| | | 20 | **3 842 541 296** |

Material: PA66; black

**28**



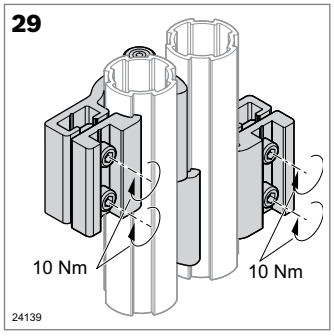

- Tube clamp D28L, N10 for fastening material shelves with 10 mm slot to the round tube D28L. Oblique positioning up to 30° possible

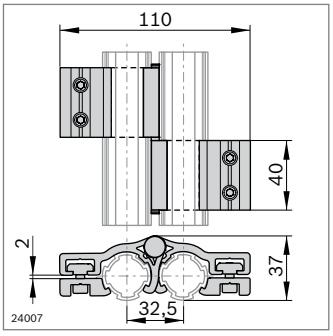
| Tube clamp D28L, N10 | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 541 193** | 2xFS10 |

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

**FS10**
M8
M8x20
10

**29**




- Opening angle: 180°
- For mounting round tube D28L

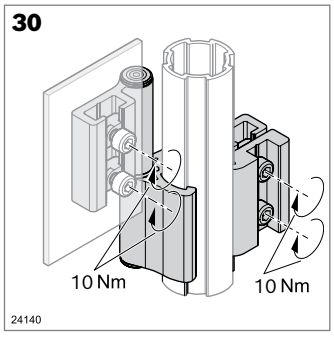
| Hinge D28L/D28L | ESD | | No. | FS |
|---|---|---|---|---|
| | | 2 | **3 842 548 126** | 4xFS11, FS12 |

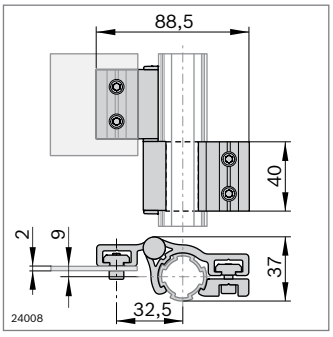
Material: Aluminum
Scope of delivery: Incl. fastening material (FS)

**FS11**
ISO4762
M6x10
M6
8

**FS12**
ISO8741
6x60
DIN125
A6,4

**30**



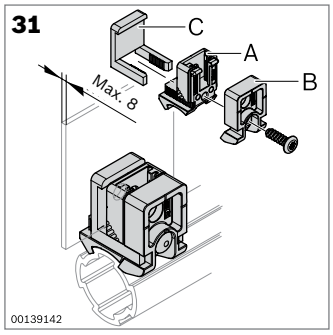

- Opening angle: 180°
- For mounting panel elements

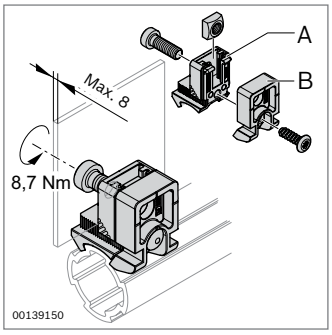
| Hinge D28L/– | ESD | | No. | FS |
|---|---|---|---|---|
| | | 2 | **3 842 548 127** | 2xFS11, FS12 |

Material: Aluminum
Scope of delivery: Incl. Fastening material

**FS11**
ISO4762
M6x10
M6
8

**FS12**
ISO8741
6x60
DIN125
A6,4




- 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 | **3 842 543 311** | FS13, FS14 |

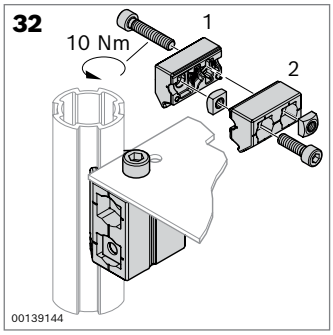
Material: PA66; black
Scope of delivery: Incl. fastening material (FS)

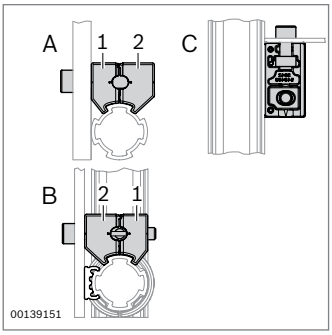
**FS13**
ISO 4762 M6x16
DIN 557 M6

**FS14**

| Snap-in clip | | No. |
|---|---|---|
| C | 10 | **3 842 184 738** |

Material: PA6; transparent



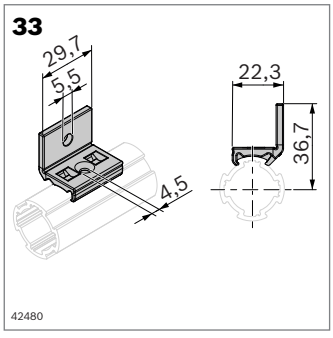




- Diecast zinc Variofix block for fastening panel elements
- Three arrangements possible (“A”, “B”, “C”)

| Variofix block Zn | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 543 494** | FS15 |

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

**FS15**
ISO 4762 M6x22
ISO 4762 M6x30
2x DIN 557 M6

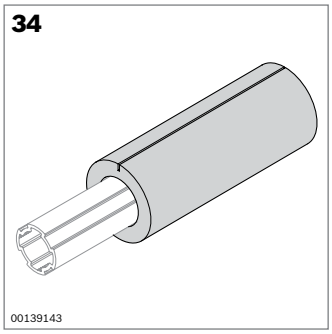


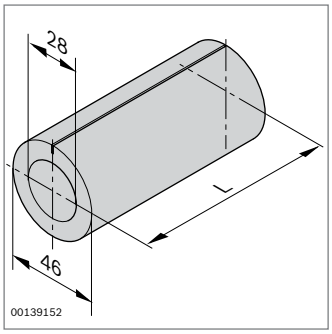

- Diecast zinc mounting bracket D28L for fastening panel elements
- Recommended for ESD applications: Countersunk self-tapping screw ISO 15482-ST4, 2x13

| Mounting bracket D28L | ESD | | No. |
|---|---|---|---|
| | | 10 | **3 842 567 368** |

Material: PA66,

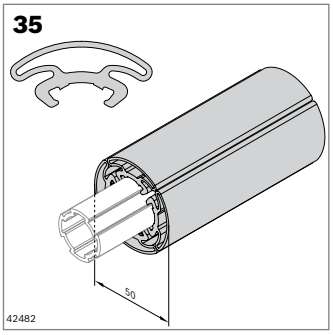
**34**

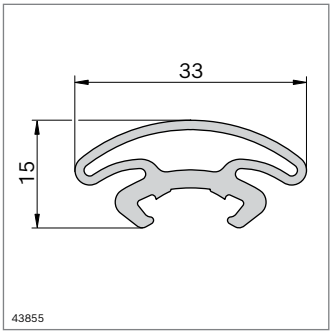



| Impact protection | L (mm) | | No. |
|---|---|---|---|
| | 2000 | 10 | **3 842 544 637** |
| Material: | PE-LD; gray | | |

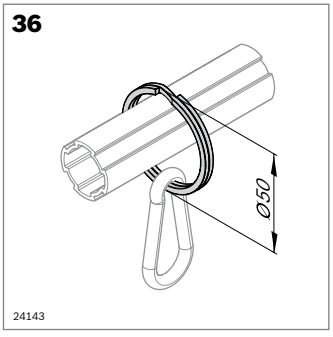
**35**




| Impact protection D28L | L (mm) | | ESD | No. |
|---|---|---|---|---|
| Signal gray | 2000 | 10 | | **3 842 567 344** |
| Black | 2000 | 10 | ⚠ | **3 842 567 345** |
| Material: | TPV, TPE (conductive) | | | |

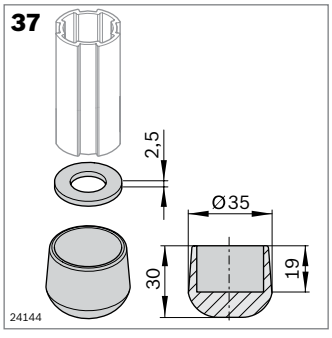
**36**




▶ For designing simple tool holders

| Ring + spring hook | | No. |
|---|---|---|
| Ring D50 | 20 | **3 842 548 131** |
| Spring hook | 1 | **0 842 901 309** |
| Material: | Ring: Steel; nickel-plated<br>Spring hook: Steel; zinc-plated | |

**37**

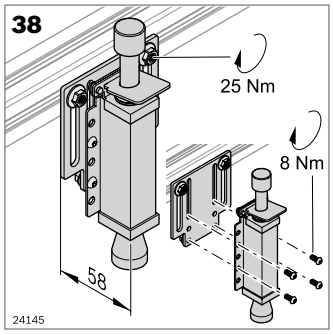


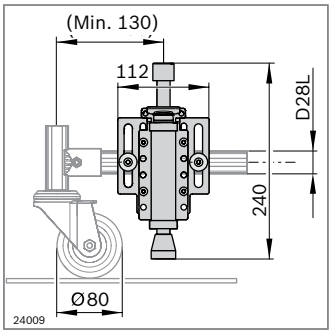

▶ Non-slip design of flow racks and stands

| Rubber foot D28 | ESD | | No. | FS |
|---|---|---|---|---|
| | ⚠ | 20 | **3 842 548 128** | FS16 |
| Material: | NR/SBR; black | | | |

**FS16**

ISO 7089-14-200HV-CM




- To stop material shuttles ergonomically at just one point
- Universal attachment to different round tubes and profile cross-sections
- Stopper tension path: 34 mm

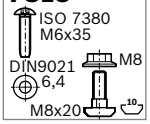
| Stopper D28L, N10 | No. | FS |
|---|---|---|
| | **3 842 548 132** | 4xFS16, 2xFS18 |

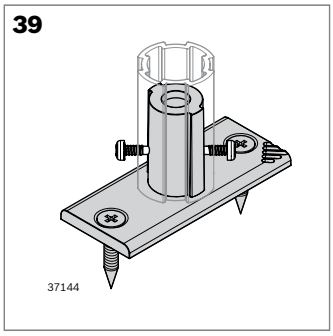
| | |
|---|---|
| Material: | Stopper: Stainless steel, EPDM<br>Attachment plate: Aluminum |
| Scope of delivery: | Incl. fastening material (FS) |

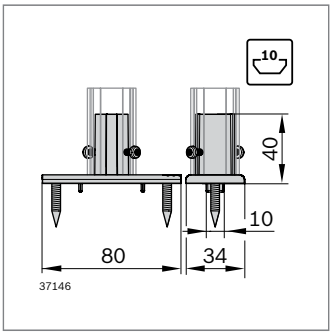
**FS17**




**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

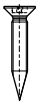
Recommended accessories for profile installation:
- Countersunk screw ISO 10642 M5x16-8.8
- T-nut (**3 842 530 283**)

Accessories, optional:
Self-tapping screw (**3 842 552 267**)

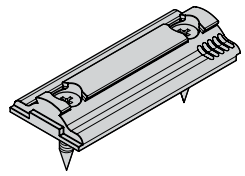
| Base plate D28L | ESD | | No. | FS |
|---|---|---|---|---|
| | | 10 | **3 842 559 346** | 2xFS19 |

| | |
|---|---|
| Material: | Diecast zinc |
| Scope of delivery: | Incl. fastening material (FS) |

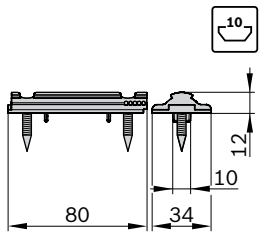
**FS19**



**40**



37145




35420

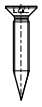
- Base plate for fastening frames directly onto walls, floors, table tops and strut profiles with 10 mm slot via EcoShape round tubes
- No additional connector required
- Centering lugs as anti-torsion elements (can be broken off)
- Reference load for profile installation: 15 Nm admissible in lengthwise and crosswise direction Load values for installation on other surfaces dependent on material

Recommended accessories for profile installation:

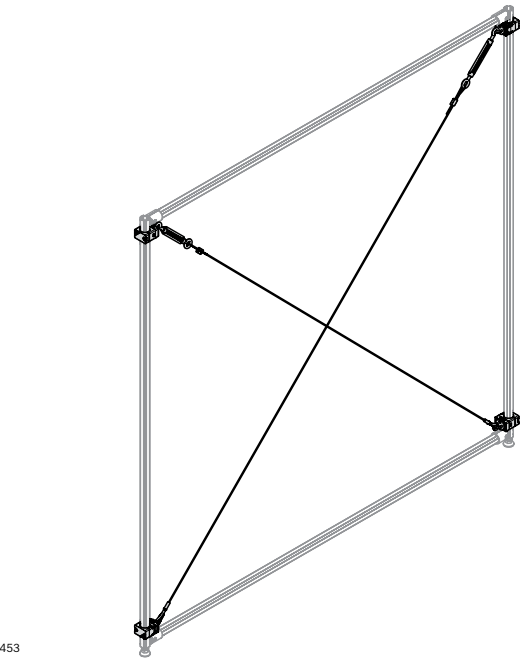
- Countersunk screw ISO 10642 M5x16-8.8
- T-nut (**3 842 530 283**)

| EcoShape base plate | ESD | | No. | FS |
|---|---|---|---|---|
| | ⚠ | 10 | **3 842 559 345** | 2xFS19 |
| Material: | Diecast zinc | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | |

**FS19**



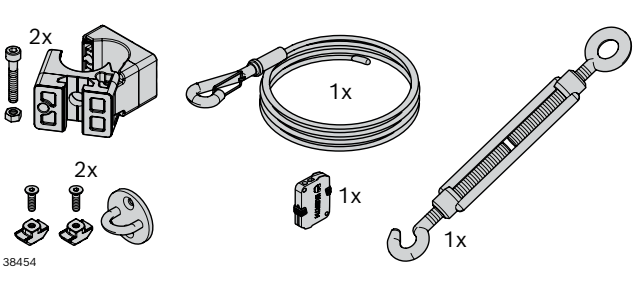
**41**



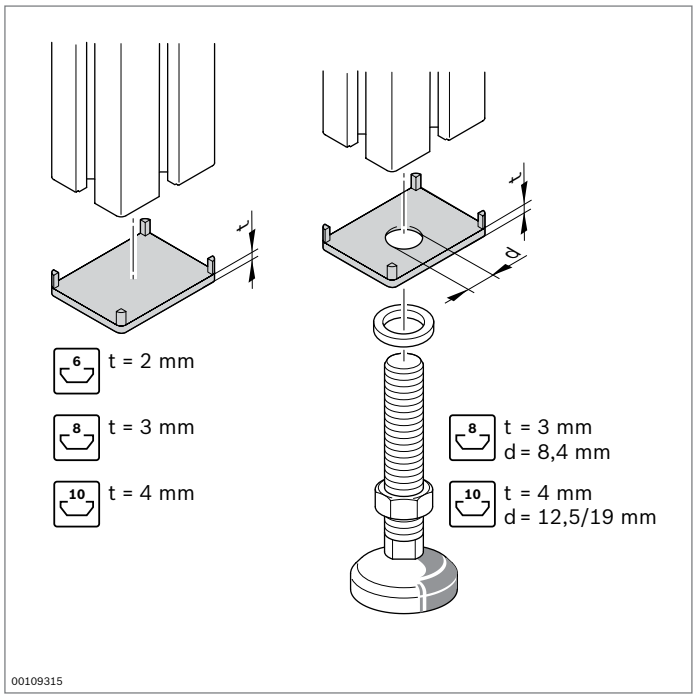
38453

- Reinforcement option for EcoShape applications
- Max. tensioning force 500 N

| Tension wire | L (mm) | ESD | | No. |
|---|---|---|---|---|
| | 3000 | ⚠ | 2 | **3 842 562 083** |
| Material: | Eye, tension lock: Stainless steel<br>Wire rope: Steel; zinc-plated | | | |
| Scope of delivery: | Incl. fastening material for fastening to the D28L round tube | | | |




38454

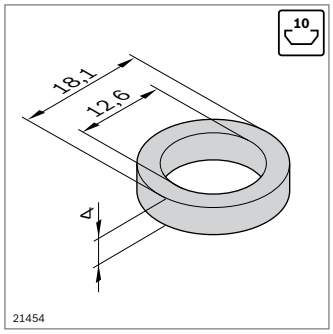



## Cover cap
## Cover cap with hole

ESD 6 8 10

- 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

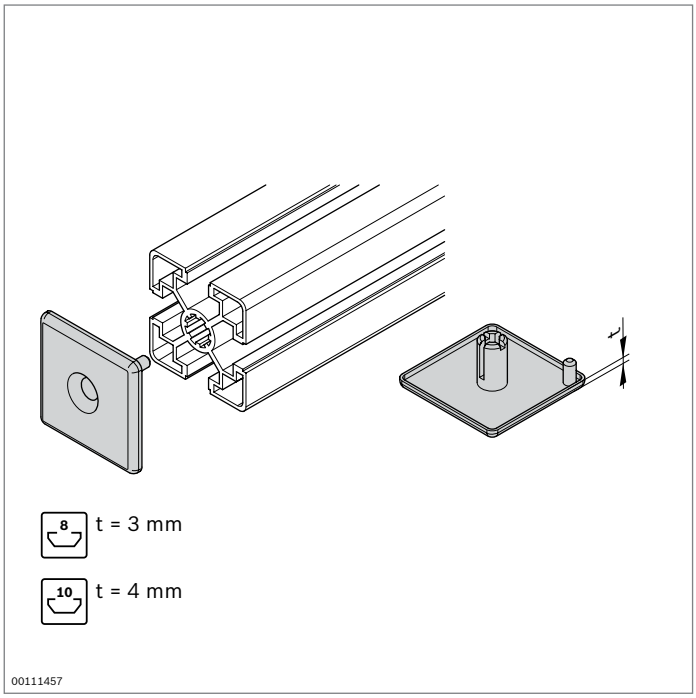
Order information for the cover caps can be found in the profile section




## 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 | | No. |
|---|---|---|
| | 100 | **3 842 555 653** |
| Material: | Diecast zinc | |



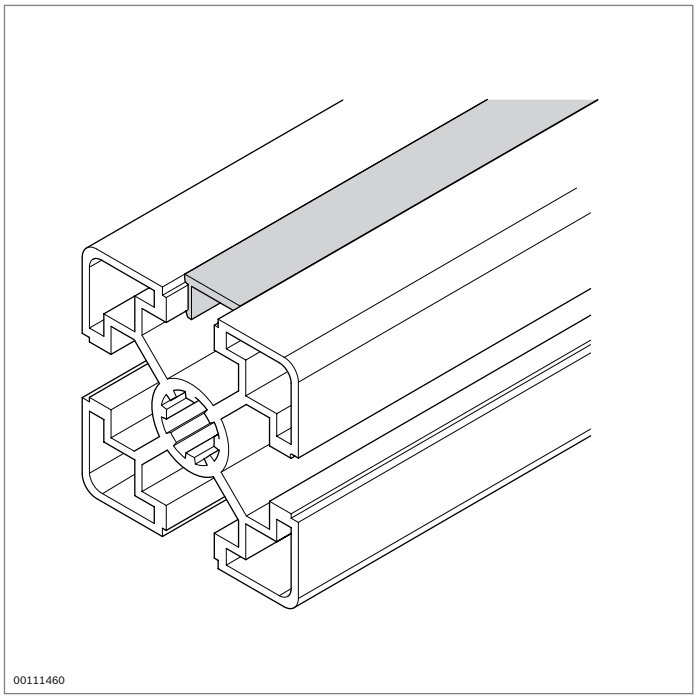

## Diecast zinc cover cap

- Shock-proof
- Resistant to aggressive media
- Fastening with countersunk screw; profile finishing not required

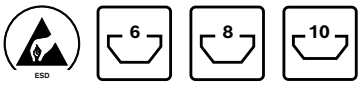
| Cover cap ZN | | ESD | No. | FS |
|---|---|---|---|---|
| **30x30-ZN** | | | **3 842 518 204** | FS1 |
| **40x40-ZN** | | | **3 842 541 807** | FS2 |
| **45x45-ZN** | | | **3 842 518 205** | FS2 |
| Material: | Cover cap: Diecast zinc<br>Fastening material: Steel; zinc-plated | | | |

**FS1**
DIN 7991 M4x16

**FS2**
DIN 7991 M6x16

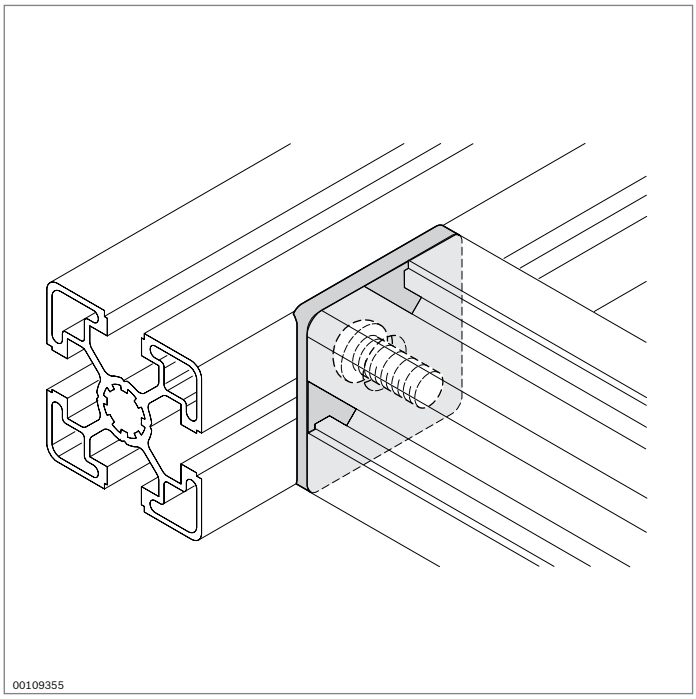



## Cover profiles




- 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

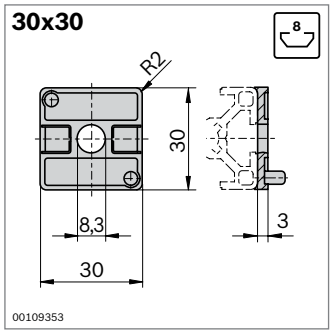
| Cover profile, 6 mm slot | Color | Material | ESD | L (mm) | | No. |
|---|---|---|---|---|---|---|
|  00109365 | Colorless, natural | Aluminum; anodized | ⏚ | 2000 | 10 | **3 842 523 254** |
|  00117777 | Signal gray (RAL 7004) | Soft PVC | | 10000 | 1 | **3 842 555 268** |
| **Cover profile, 8 mm slot** | **Color** | **Material** | **ESD** | **L** (mm) | | **No.** |
|  00109366 | Colorless, natural | Aluminum; anodized | ⏚ | 2000 | 10 | **3 842 523 256** |
|  00109367 | Signal gray (RAL 7004) | PP | | 2000 | 10 | **3 842 548 878** |
| | Black (RAL 9005) | PP | ⏚ | 2000 | 10 | **3 842 548 879** |
| | Light gray (RAL 7035) | PP | | 2000 | 10 | **3 842 548 898** |
| | Red (RAL 3020) | PP | | 2000 | 10 | **3 842 549 878** |
| | Yellow (RAL 1023) | PP | | 2000 | 10 | **3 842 549 879** |
| | Green (RAL 6032) | PP | | 2000 | 10 | **3 842 554 771** |
| | Blue (RAL 5010) | PP | | 2000 | 10 | **3 842 549 880** |
| | Orange (RAL 2004) | PP | | 2000 | 10 | **3 842 549 881** |
| | Colorless, transparent | PET | | 2000 | 10 | **3 842 549 877** |
| **Cover profile, 10 mm slot** | **Color** | **Material** | **ESD** | **L** (mm) | | **No.** |
|  00109368 | Colorless, natural | Aluminum; anodized | ⏚ | 2000 | 10 | **3 842 523 258** |
|  19502 | Signal gray (RAL 7004) | Hard PVC | | 2000 | 10 | **3 842 548 876** |
| | Black (RAL 9005) | Hard PVC | ⏚ | 2000 | 10 | **3 842 548 877** |
| | Light gray (RAL 7035) | Hard PVC | | 2000 | 10 | **3 842 518 367** |
| | Red (RAL 3020) | Hard PVC | | 2000 | 10 | **3 842 518 368** |
| | Yellow (RAL 1023) | Hard PVC | | 2000 | 10 | **3 842 518 369** |
| | Green (RAL 6032) | Hard PVC | | 2000 | 10 | **3 842 549 888** |
| | Blue (RAL 5010) | Hard PVC | | 2000 | 10 | **3 842 538 955** |
| | Orange (RAL 2004) | Hard PVC | | 2000 | 10 | **3 842 538 957** |
| | Colorless, transparent | Hard PVC | | 2000 | 10 | **3 842 191 182** |



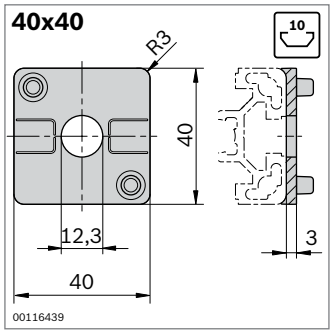

## Radial compensation



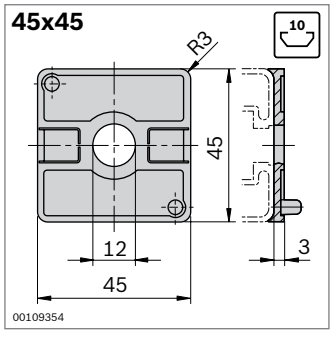

- For avoiding gaps and sharp edges on T-connections between two profiles using a central bolt or quick connector (note spacing of hole from the end of the profile)
- Slot segments can be broken out to support panel elements in the slot
- Important note: The load capacity of the profile connection is reduced when using radial compensation (see “Technical data”, page 18-1)!
- Tested for particulate emissions. Report No. BO2112-1289



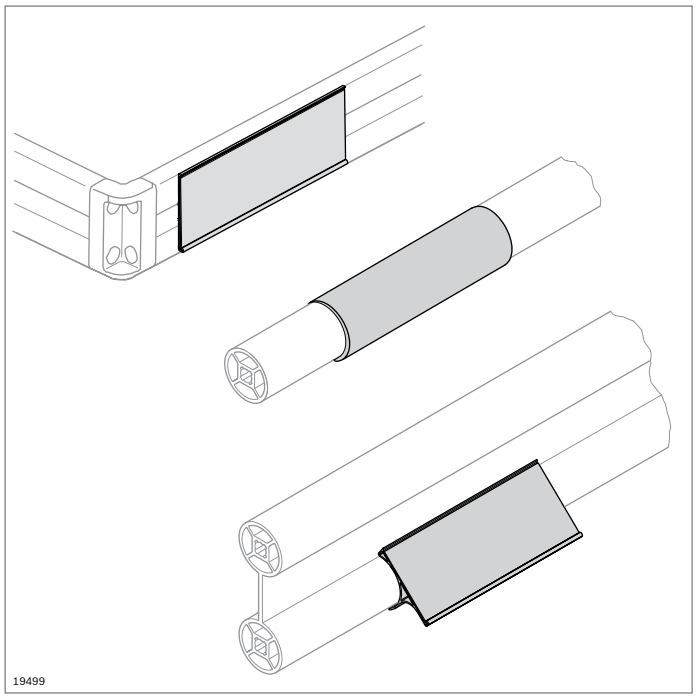

| Radial compensation | | Slot | | No. |
|---|---|---|---|---|
| **30x30** | | 8 | 10 | **3 842 551 026** |
| Material: | PA; signal gray RAL 7004 | | | |




| Radial compensation | | Slot | | No. |
|---|---|---|---|---|
| **40x40** | | 10 | 10 | **3 842 551 028** |
| Material: | PA; signal gray RAL 7004 | | | |

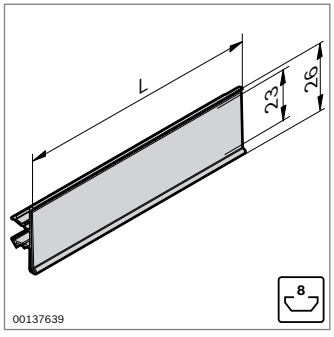


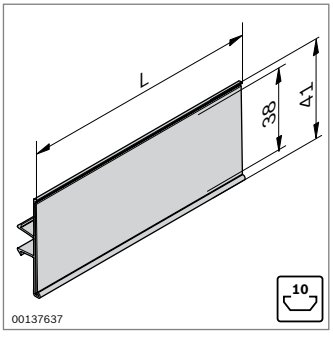

| Radial compensation | | Slot | | No. |
|---|---|---|---|---|
| **45x45** | | 10 | 10 | **3 842 551 030** |
| Material: | PA; signal gray RAL 7004 | | | |




## Labeling clips

- For labeling profiles and tubular cross ties

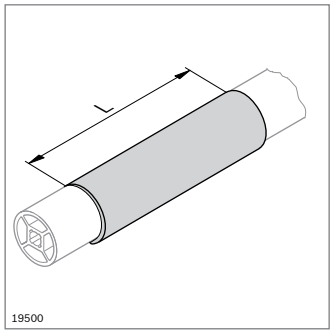



- Labeling clip for strut profiles with 8 mm and 10 mm slot

| Labeling clip | Slot | L (mm) | | No. |
|---|---|---|---|---|
| | 8 | 2000 | 20 | **3 842 537 113** |
| | 8 | 102 | 20 | **3 842 537 650** |
| | 10 | 2000 | 20 | **3 842 537 116** |
| | 10 | 102 | 20 | **3 842 537 651** |

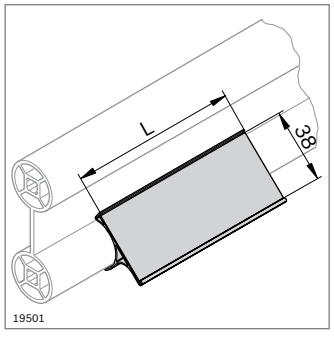
Material: Hard PVC; light gray (RAL 7035), transparent




- 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 | **3 842 535 136** |
| | 102 | 20 | **3 842 538 093** |

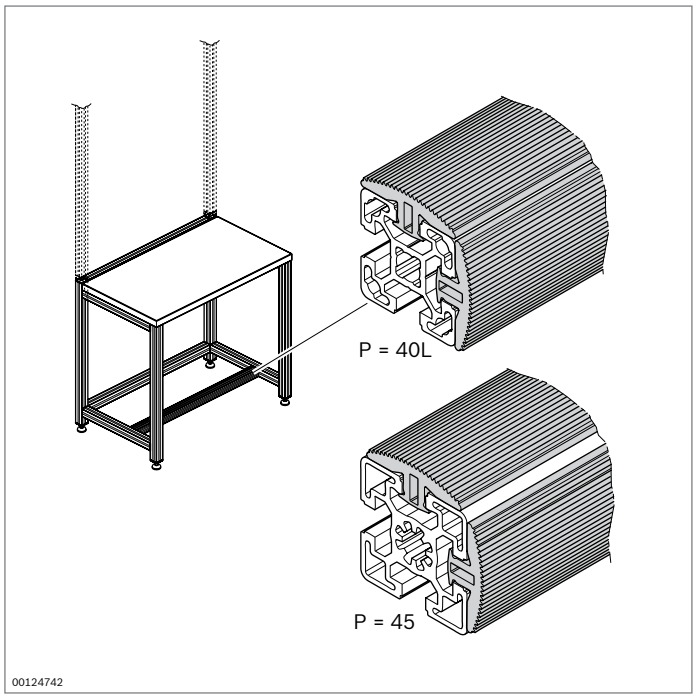
Material: Hard PVC; colorless, transparent

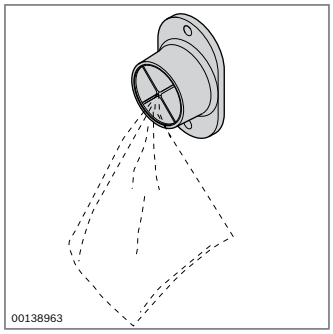


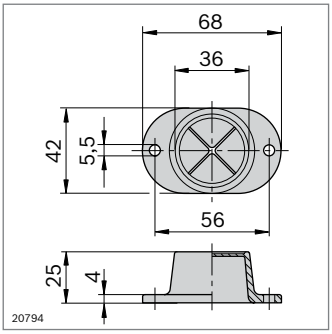

- Self-adhesive
- Labeling clip with flat text surface for strut profiles D28; D28L; D28L, N10, and D28x55

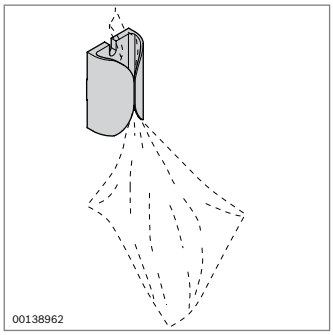
| Labeling clip | L (mm) | | No. |
|---|---|---|---|
| For tubular cross ties | 2000 | 20 | **3 842 537 119** |
| | 102 | 20 | **3 842 537 652** |

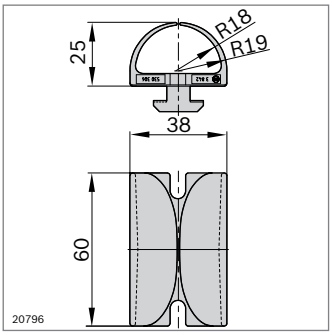
Material: Hard PVC; light gray (RAL 7035), transparent




# 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 | **3 842 994 979 / L** |
| | 30000 | | 1 | **3 842 562 090** |

Material: EPDM; conduction resistance R = $10^4$ ... $10^9$ Ω

### 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. |
|---|---|
| | **1 845 719 000** |

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. |
|---|---|
| | **3 842 530 306** |

Material: PA6; black



## 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

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.

### Technical data

- Modular dimension 40
- Profile slot 10 mm
- Profile cross-sections 40x120x120, 120x120, 60x120, 120x120 6N
- Usable interior space from 600 $mm^2$ to 4000 $mm^2$
- Compatible with aluminum profile modules from Rexroth
- VDE certified
- Suitable for EPA

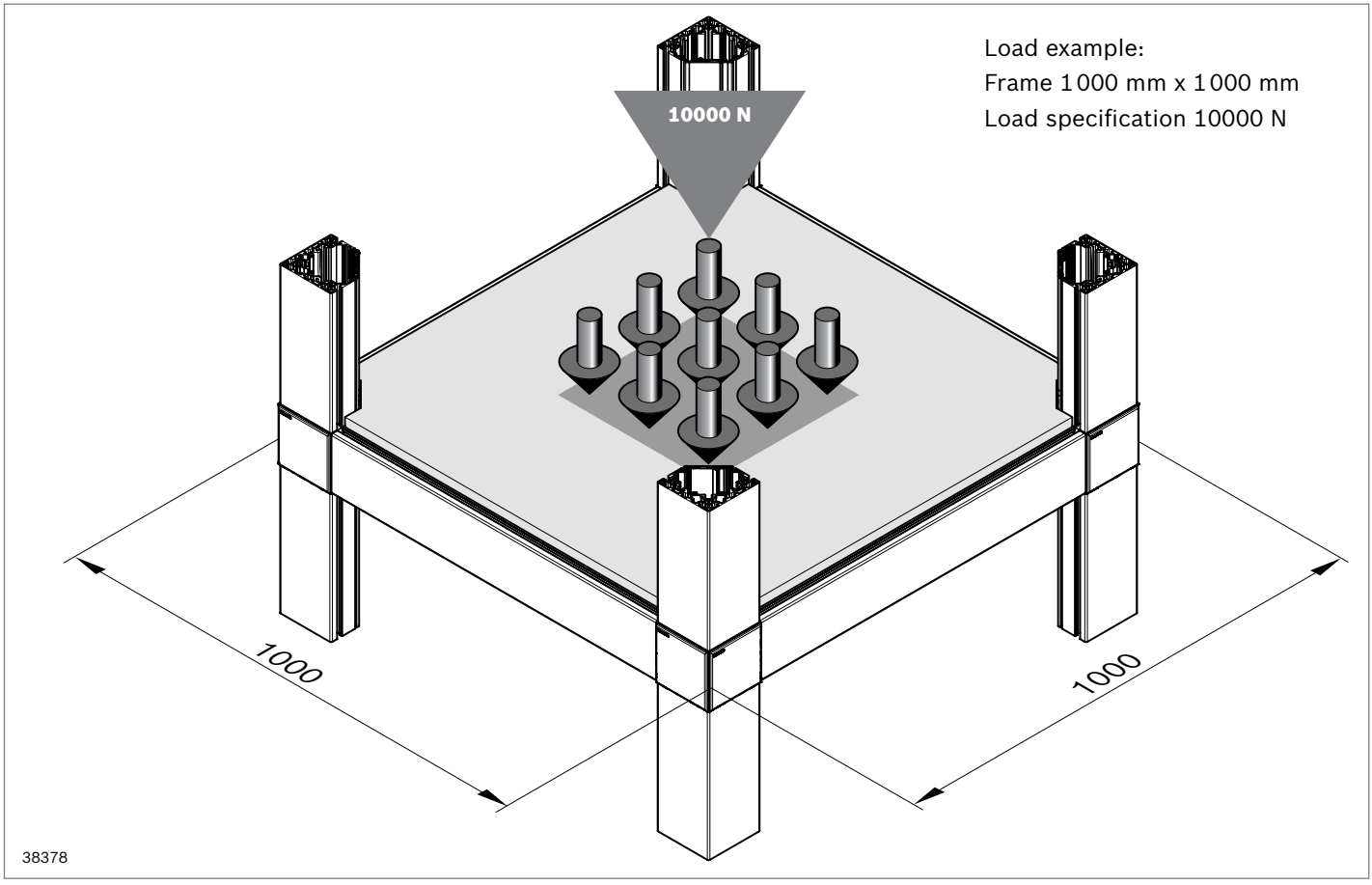


**Stability and load capacity**

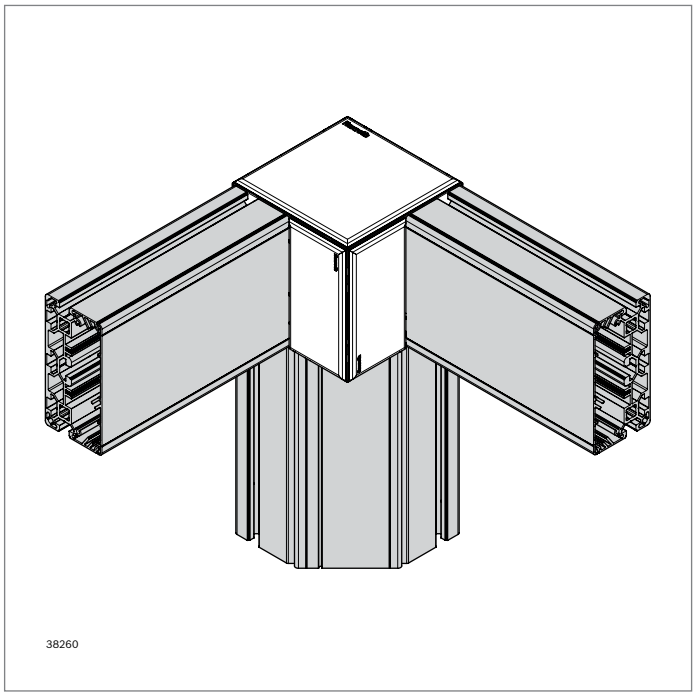
The range of function-integrated profiles is designed for high loads. The profiles in the 40 mm profile dimension include the sturdy 10 mm Rexroth slot and allow strong M12/S12 screws to be screwed into the central hole.

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.




Load example:
Frame 1000 mm x 1000 mm
Load specification 10000 N



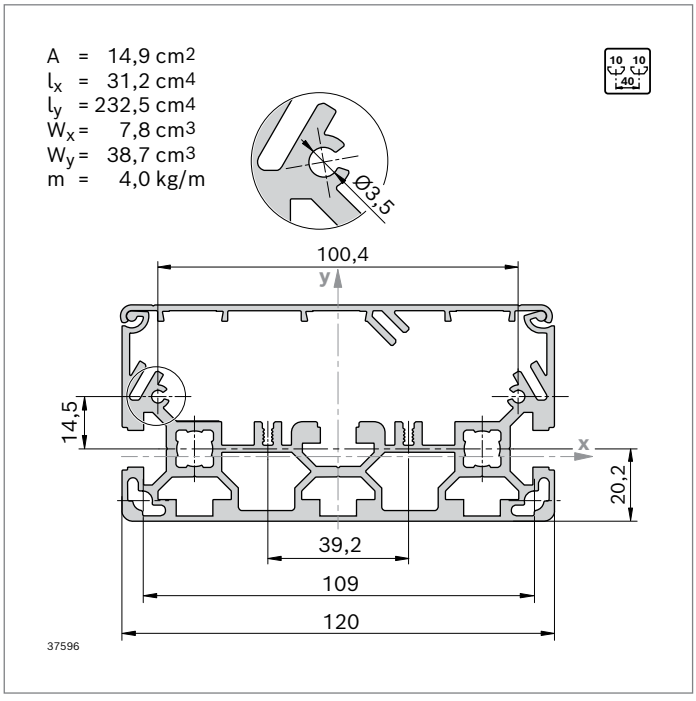

## Cable guide profiles




- 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:

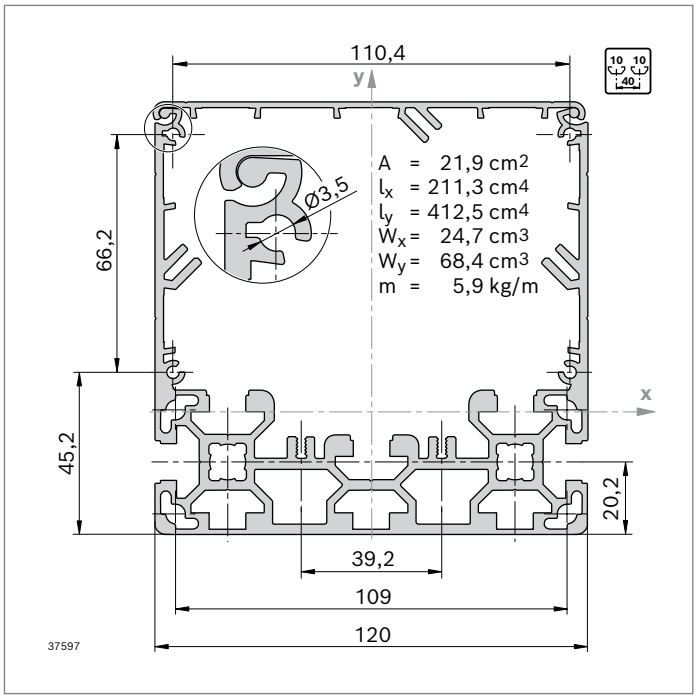
- Self-tapping screw (**3 842 552 267**) to secure the cover
- Potential equalizer line (**3 842 552 234**, p. 2-117)




Usable interior space: 600 mm²

| 60x120 | | | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | | 100 ... 6070 | **3 842 996 361** |
| 1 pc | M12 | | 100 ... 6000 | **3 842 996 364** |
| 1 pc | M12 | M12 | 110 ... 6000 | **3 842 996 365** |
| 10 pcs | | | 6070 | **3 842 558 242** |

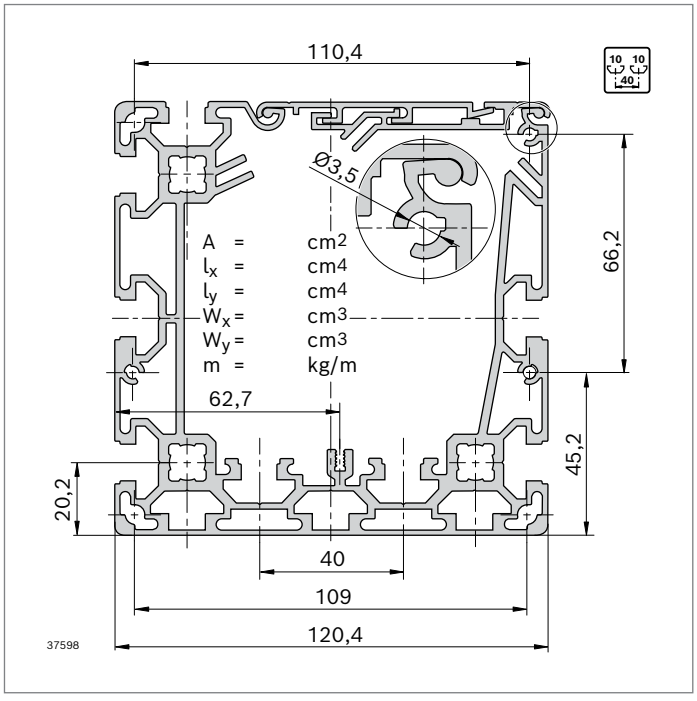
Profile finishing: M12: in all core holes




Usable interior space: 4000 mm²

| 120x120 | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 100 ... 6070 | **3 842 996 360** |
| 1 pc | M12 | 100 ... 6000 | **3 842 996 366** |
| 1 pc | M12 M12 | 110 ... 6000 | **3 842 996 367** |
| 4 pcs | | 6070 | **3 842 558 241** |

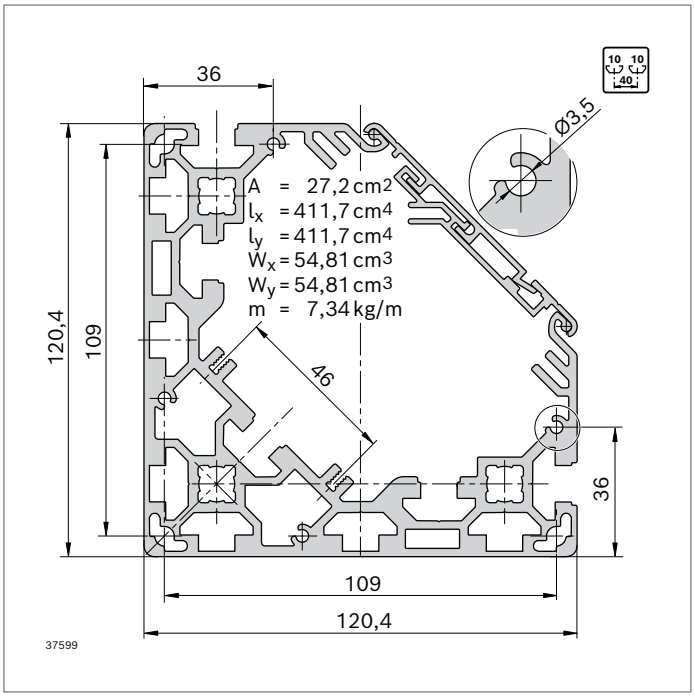
Profile finishing: M12: in all core holes




Usable interior space: 4600 mm²

| 120x120 6N | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 100 ... 6070 | **3 842 994 039** |
| 1 pc | M12 | 100 ... 6000 | **3 842 994 054** |
| 1 pc | M12 M12 | 110 ... 6000 | **3 842 994 059** |
| 4 pcs | | 6070 | **3 842 558 190** |

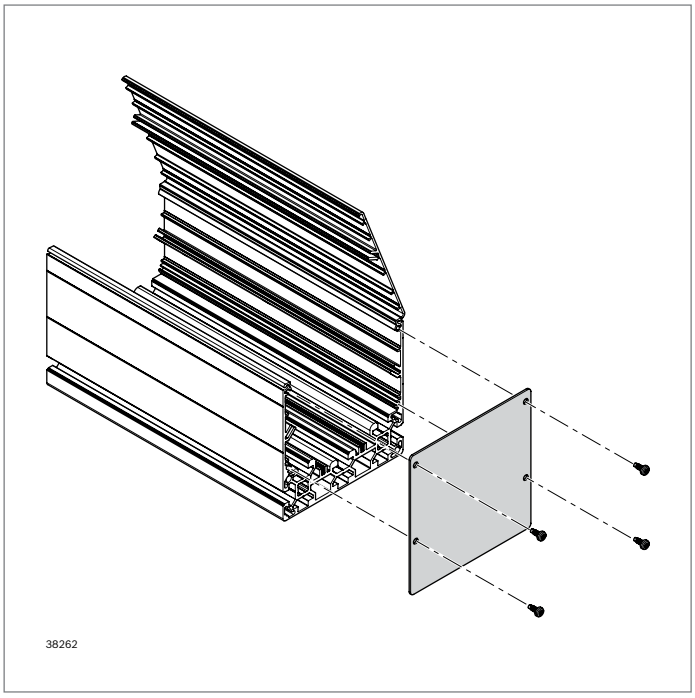
Profile finishing: M12: in all core holes




Usable interior space: 3200 mm²

| 40x120x120 | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 100 ... 6070 | **3 842 996 362** |
| 1 pc | M12 | 100 ... 6000 | **3 842 996 368** |
| 1 pc | M12 M12 | 110 ... 6000 | **3 842 996 369** |
| 4 pcs | | 6070 | **3 842 558 243** |

Profile finishing: M12: in all core holes

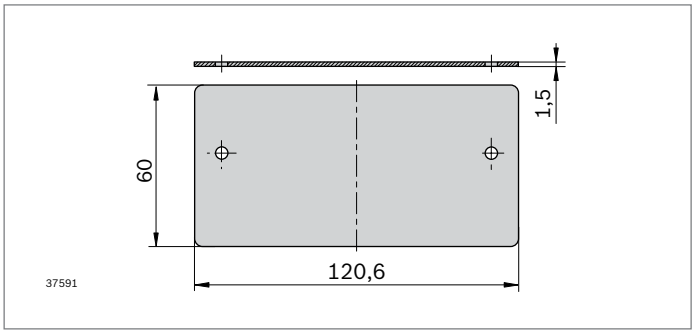



## Cover plate

- Closes cable guide profiles at the front
- Surface anodized
- Fastened securely with screws

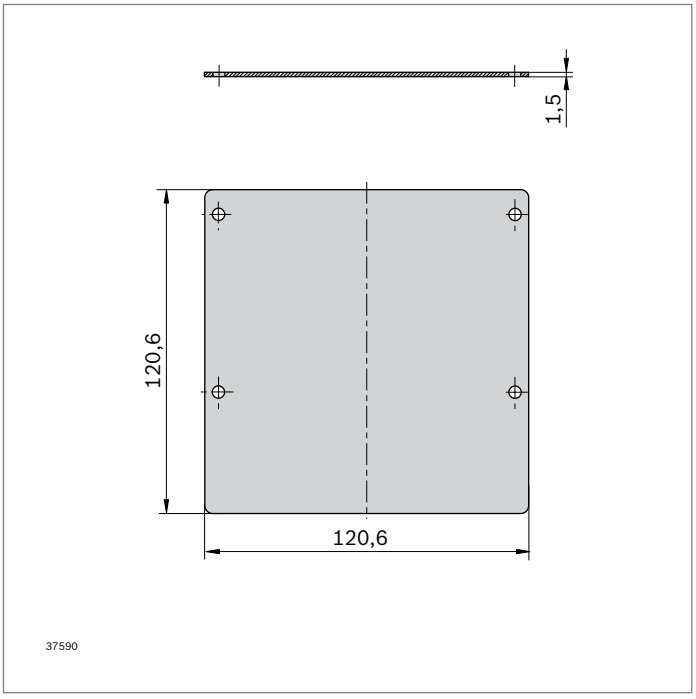
**FS1**

DIN7500-PE
M4x8



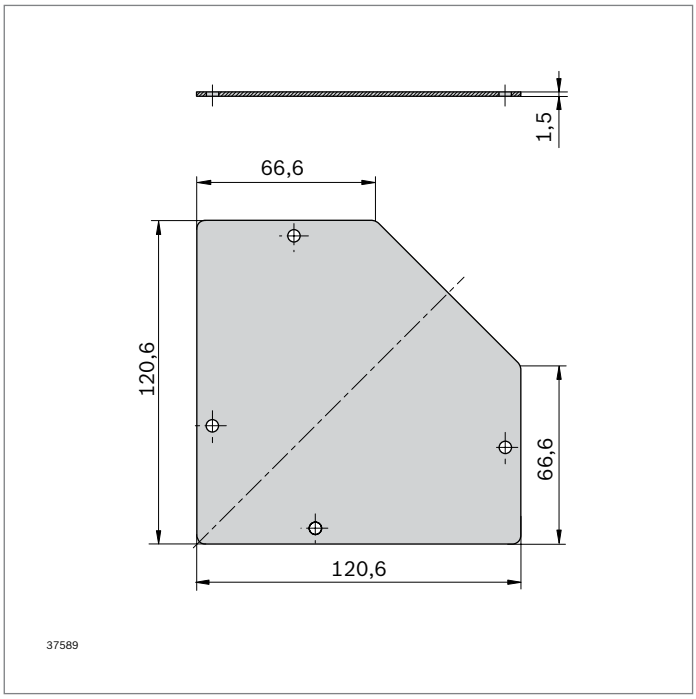

- For cable guide profile 60x120

| Cover plate | ESD | | No. | FS |
|---|---|---|---|---|
| **60x120** | | 10 | **3 842 558 233** | 2x FS1 |
| Material: | Cover plate: Aluminum sheet, anodized<br>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

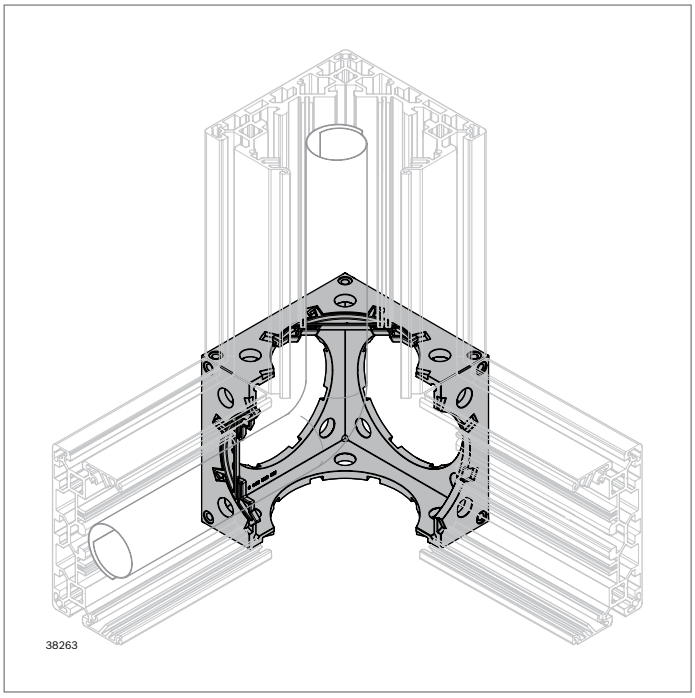
| Cover plate | ESD | | No. | FS |
|---|---|---|---|---|
| **120x120** | | 10 | **3 842 558 229** | 4x FS1 |
| Material: | Cover plate: Aluminum sheet, anodized<br>Fastening material: Steel; zinc-plated | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | |




▶ For cable guide profile 40x120x120

| Cover plate | ESD | | No. | FS |
|---|---|---|---|---|
| **40x120x120** | | 10 | **3 842 558 228** | 4x FS1 |

| | |
|---|---|
| Material: | Cover plate: Aluminum sheet, anodized<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |

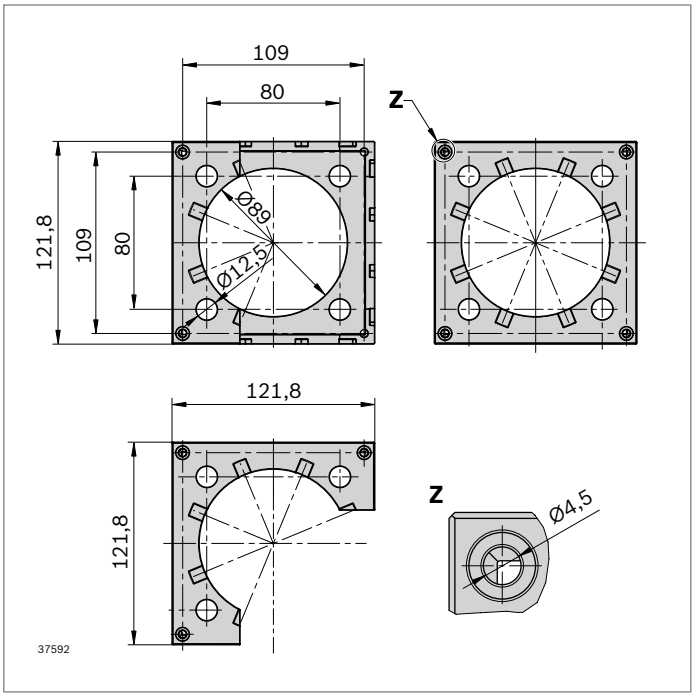



## Profile joints 3/4 and 1/2
## Positioning pin
## Edge protector

- 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)

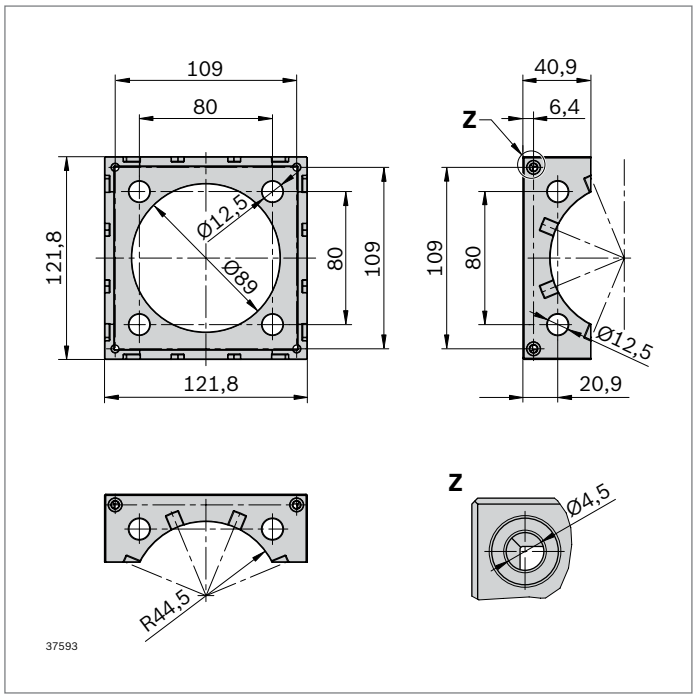
Accessories, optional:
- Edge protector to cover sharp edges
- Cover cap for closing openings




| Profile joint 3/4 | | ESD*) | No. |
|---|---|---|---|
| **120x120-3/4** | 1 | | **3 842 558 501** |

| | |
|---|---|
| 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. |

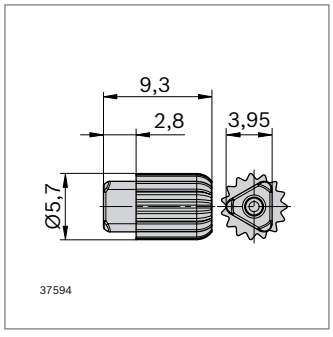
Accessories, optional:
- Connection bracket for covering sharp edges and for fastening cover caps
- Cover caps




| Profile joint 1/2 | | | No. |
|---|---|---|---|
| **120x120-1/2** | | 1 | **3 842 558 246** |
| Material: | Diecast aluminum; coated, signal gray RAL 7004 | | |

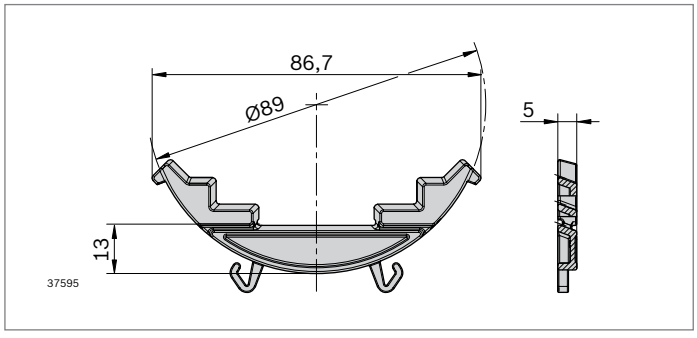
Accessories, optional:

- Spacer for fixing cover caps
- Cover caps



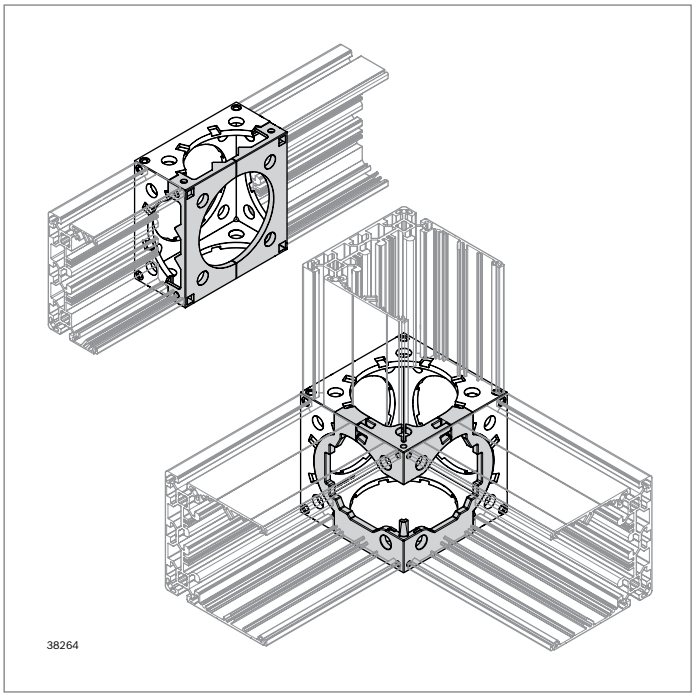

- Positioning aid to facilitate assembly
- Use for the combinations of profile joint/profile, profile joint/base plate, base plate/profile

| Positioning pin | | | No. |
|---|---|---|---|
| **D=5.7** | | 20 | **3 842 558 487** |
| Material: | PP; signal gray RAL 7004 | | |



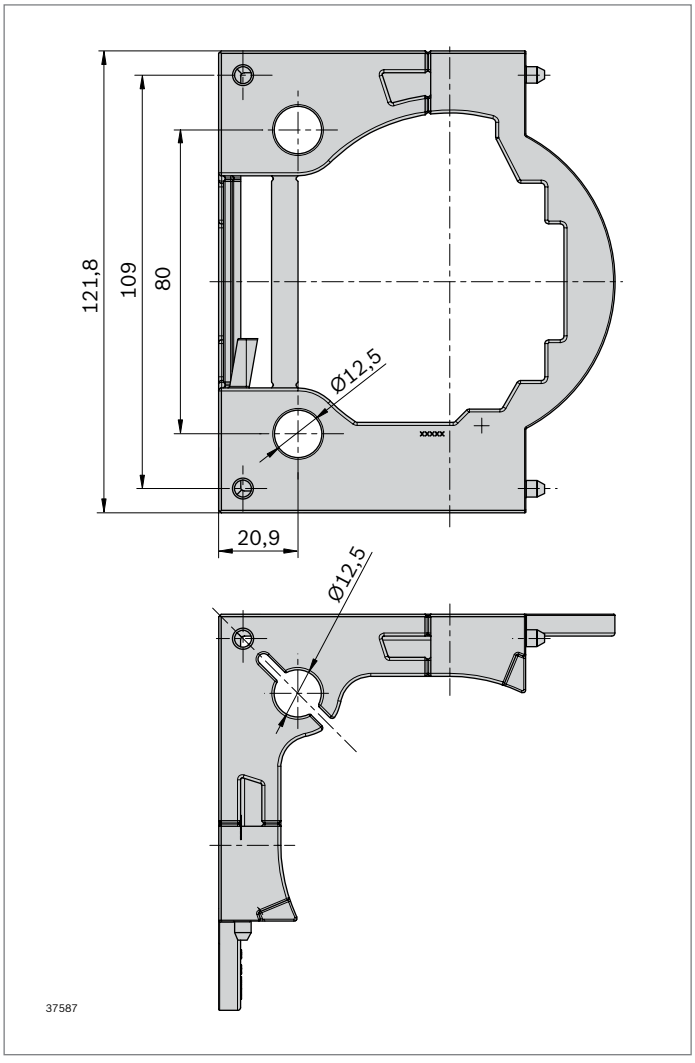

- Optimum protection for cables with sharp-edged transition between profile joint and cable guide profile
- Can be retrofitted
- Fastening via snap lock

| Edge protector | Color | ESD | | No. |
|---|---|---|---|---|
| **120x120** | Signal gray | | 10 | **3 842 558 485** |
| **120x120** | Black | | 10 | **3 842 558 249** |
| Material: | PP | | | |




## Connection bracket
## Spacers

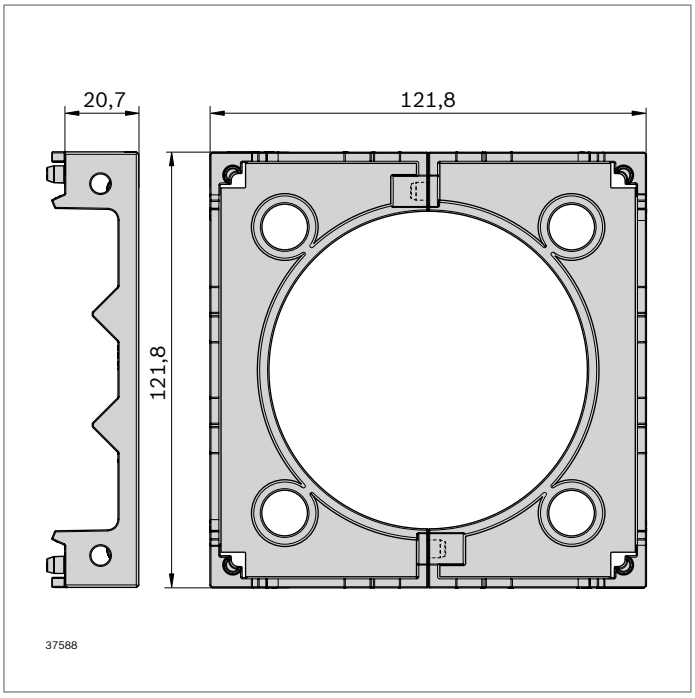
- Enables the mounting of cover caps on profile joints
- Edge protector for safe cable routing




### Connection bracket

- Closes profile joint 3/4 via residual function for safe cable laying
- Edge protector included

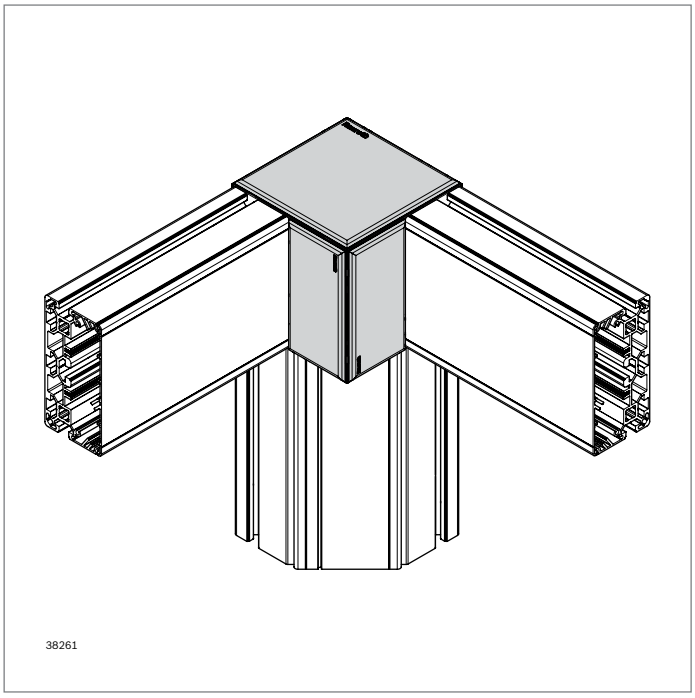
| Connection bracket | | No. |
|---|---|---|
| **CGP 120x120** | 2 | **3 842 558 473** |
| Material: | PP; signal gray RAL 7004 | |




**Spacers**

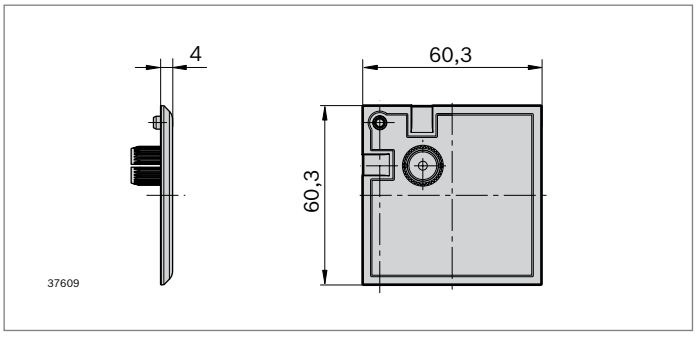
- Running cables at a profile joint 1/2
- 2 parts for easy assembly

| Spacers | | No. |
|---|---|---|
| **20x120** | 5 | **3 842 558 502** |
| Material: | PP; signal gray RAL 7004 | |



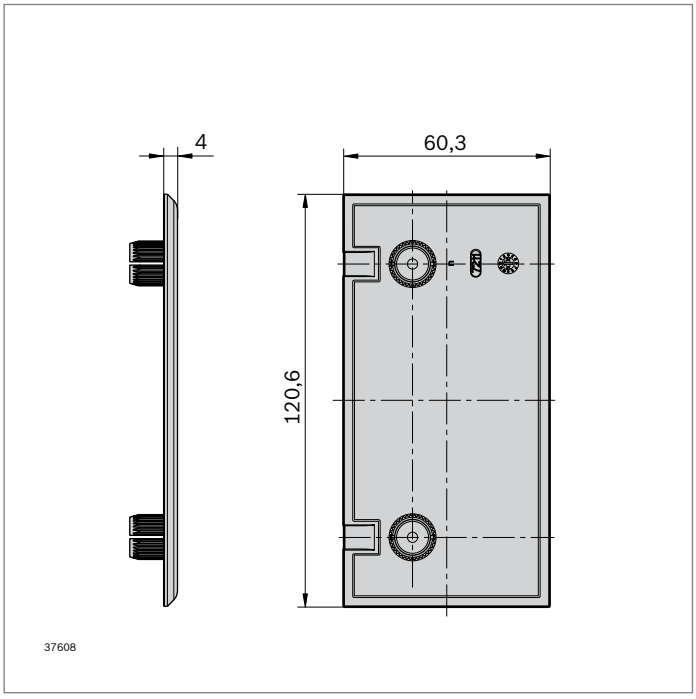

## Cover caps

- For closing the profile joints and profile butt joints in various application combinations



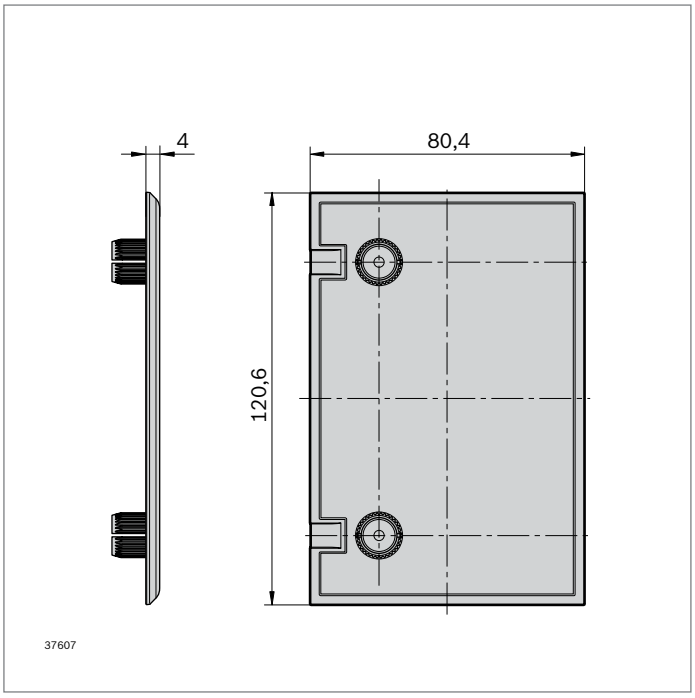

- For profile joint 3/4 and cable guide profile 60x120 without connection bracket

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **60x60** | Signal gray | | 10 | **3 842 558 474** |
| **60x60** | Black | | 10 | **3 842 558 494** |
| Material: | PP | | | |



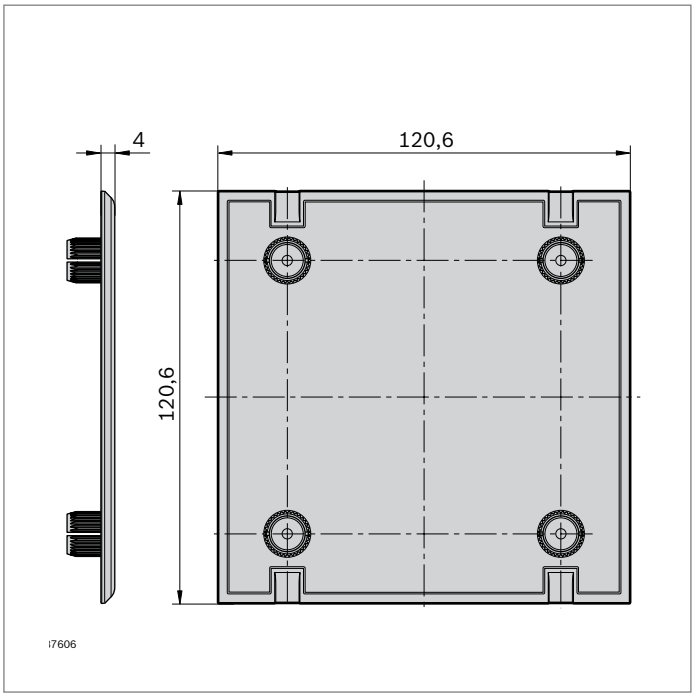

- For profile joint 3/4 or 1/2 in conjunction with cable guide profile 60x120 or base plate 60x120

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **60x120** | Signal gray | | 10 | **3 842 558 475** |
| **60x120** | Black | | 10 | **3 842 558 495** |
| Material: | PP | | | |



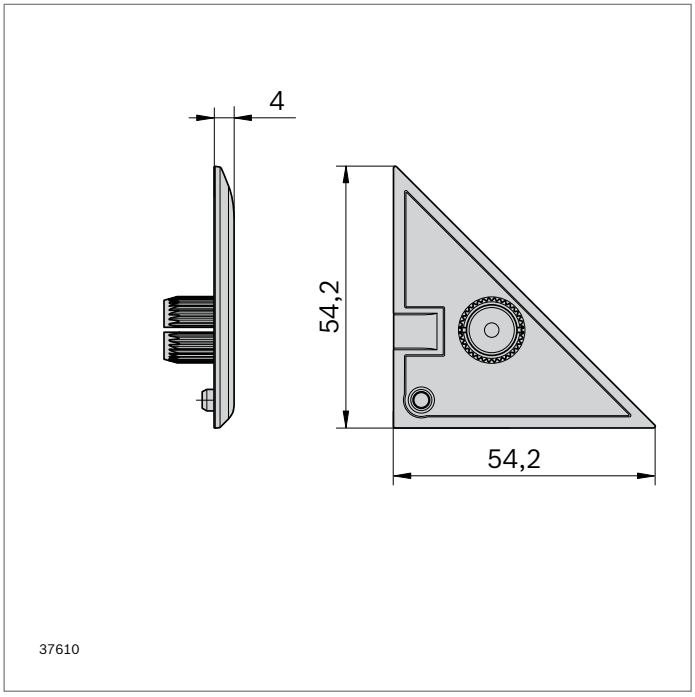

- For profile joint 3/4 or 1/2 in conjunction with strut profile 40x120

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **80x120** | Signal gray | | 10 | **3 842 558 476** |
| **80x120** | Black | | 10 | **3 842 558 496** |
| Material: | PP | | | |



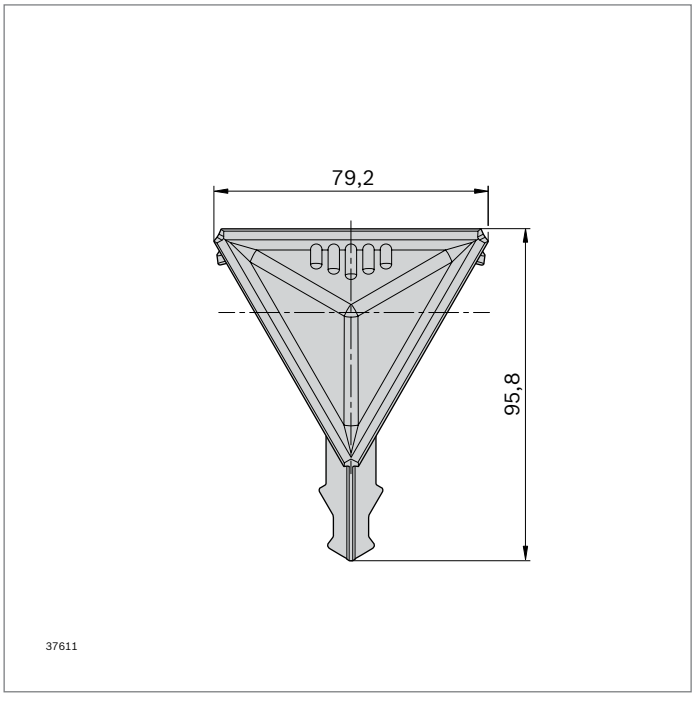

- For profile joints 3/4 and 1/2

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **120x120** | Signal gray | | 10 | **3 842 558 477** |
| **120x120** | Black | | 10 | **3 842 558 497** |
| Material: | PP | | | |



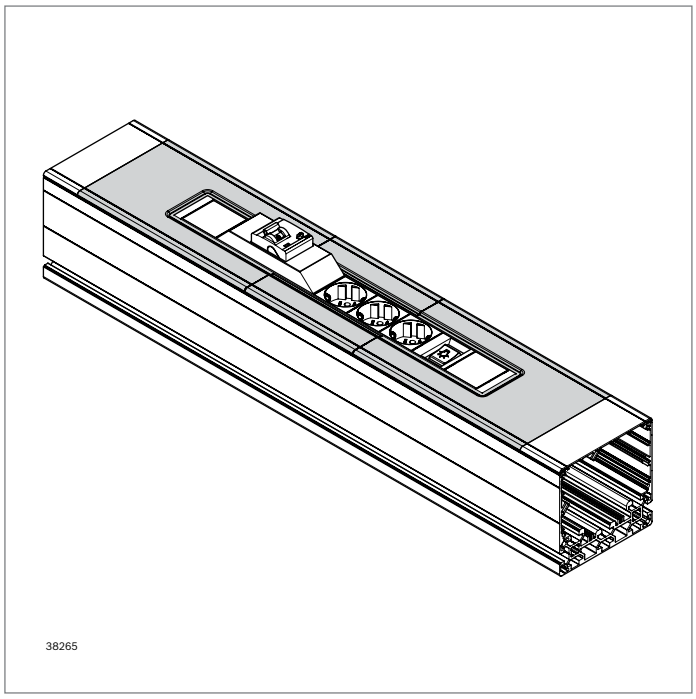

- For connecting corner profile 40x120x120 and profile joint or base plate 40x120x120

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **80 Triangle** | Signal gray | | 10 | **3 842 558 479** |
| **80 Triangle** | Black | | 10 | **3 842 558 499** |
| Material: | PP | | | |



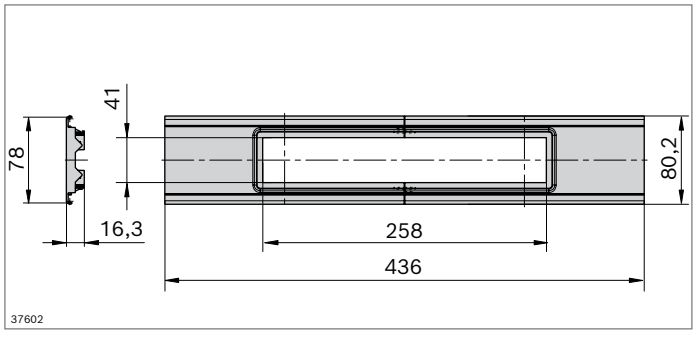

- For butt joints of 3x corner profile 40x120x120

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **80x80x80** | Signal gray | | 10 | **3 842 558 478** |
| **80x80x80** | Black | | 10 | **3 842 558 498** |
| Material: | PP | | | |



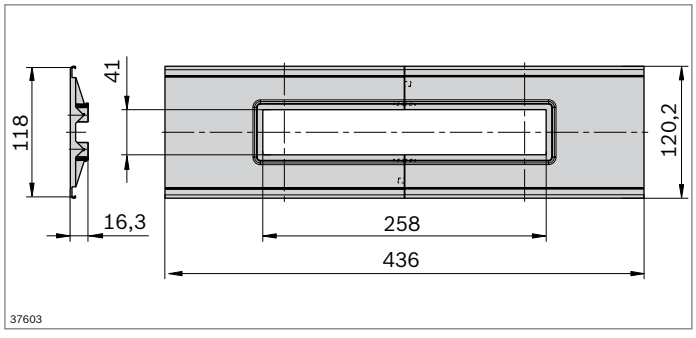

## Cover
## Cover rail

- 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



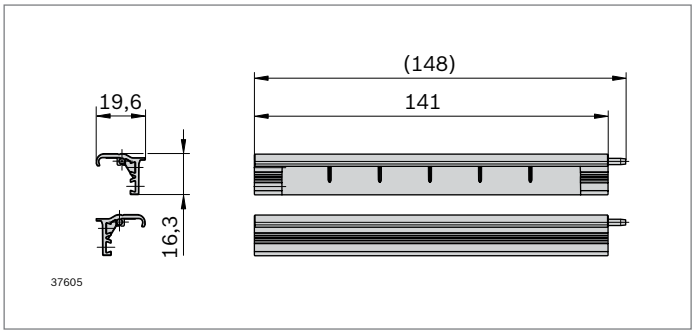

- For installation in cable guide profiles 40x120x120 and 120x120 6N

| Cover | Color | ESD | | No. |
|---|---|---|---|---|
| **80** | Signal gray | | 10 | **3 842 558 507** |
| **80** | Black | | 10 | **3 842 558 506** |
| Material: | PP | | | |



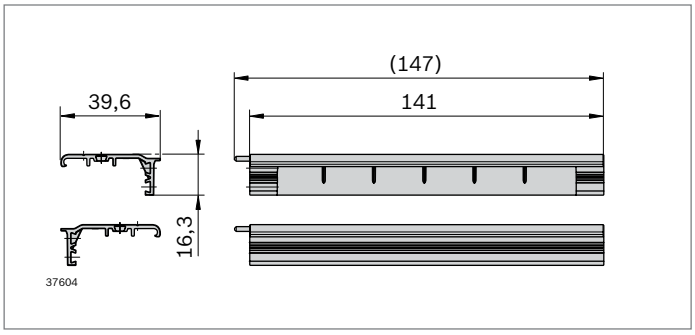

- For installation in cable routing profiles 60x120 and 120x120

| Cover | Color | ESD | | No. |
|---|---|---|---|---|
| **120** | Signal gray | | 10 | **3 842 558 509** |
| **120** | Black | | 10 | **3 842 558 508** |
| Material: | PP | | | |



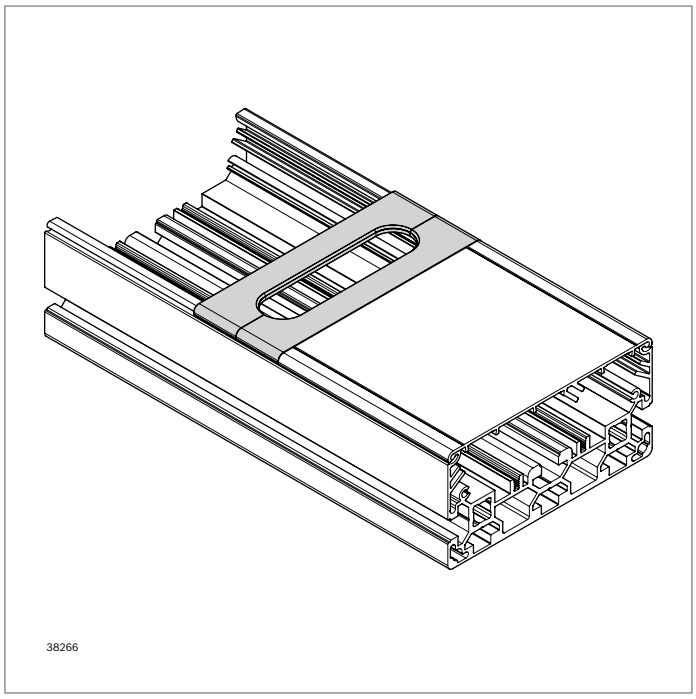

- For installation in cable guide profiles 40x120x120 and 120x120 6N
- Cover rail consists of 2 half shells

| Cover rail | Color | ESD | | No. |
|---|---|---|---|---|
| **80** | Signal gray | | 10 | **3 842 558 511** |
| **80** | Black | | 10 | **3 842 558 510** |
| Material: | PP | | | |



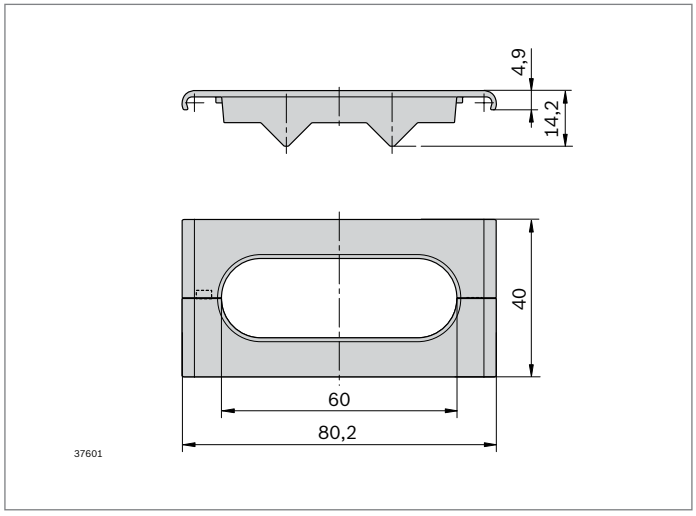

- For installation in cable routing profiles 60x120 and 120x120
- Cover rail consists of 2 half shells

| Cover rail | Color | ESD | | No. |
|---|---|---|---|---|
| **120** | Signal gray | | 10 | **3 842 558 513** |
| **120** | Black | | 10 | **3 842 558 512** |
| Material: | PP | | | |




## Cable hole

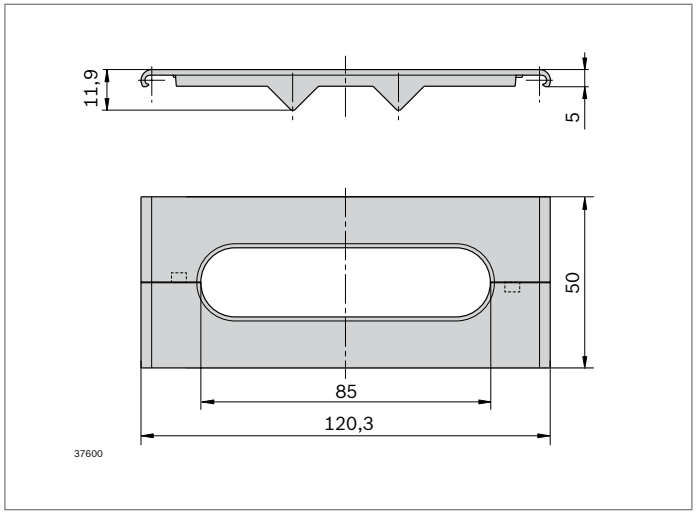
- For passing cables through the cover of a cable guide profile




- 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** |

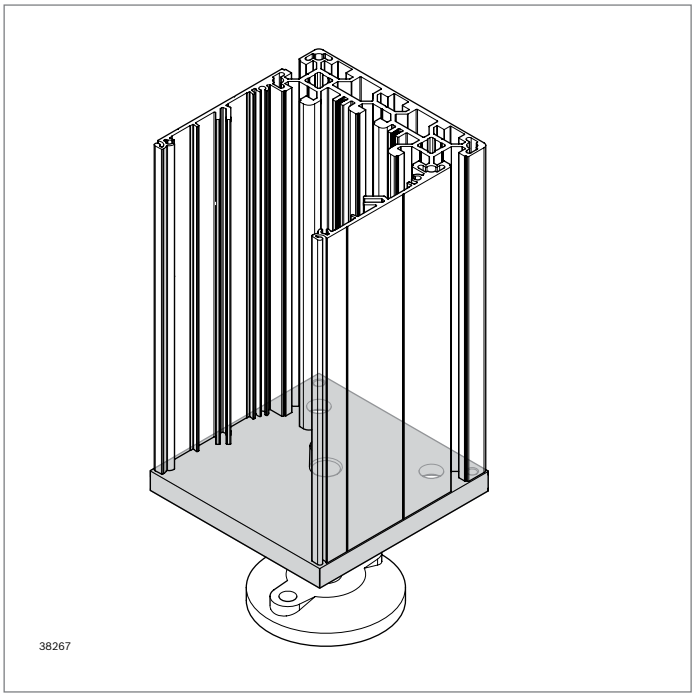
Material: PP




- 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

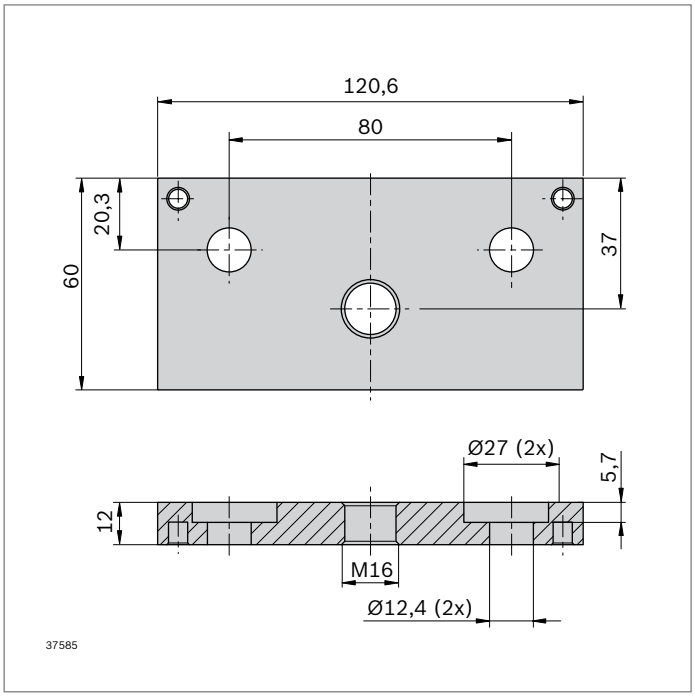



## Base plate

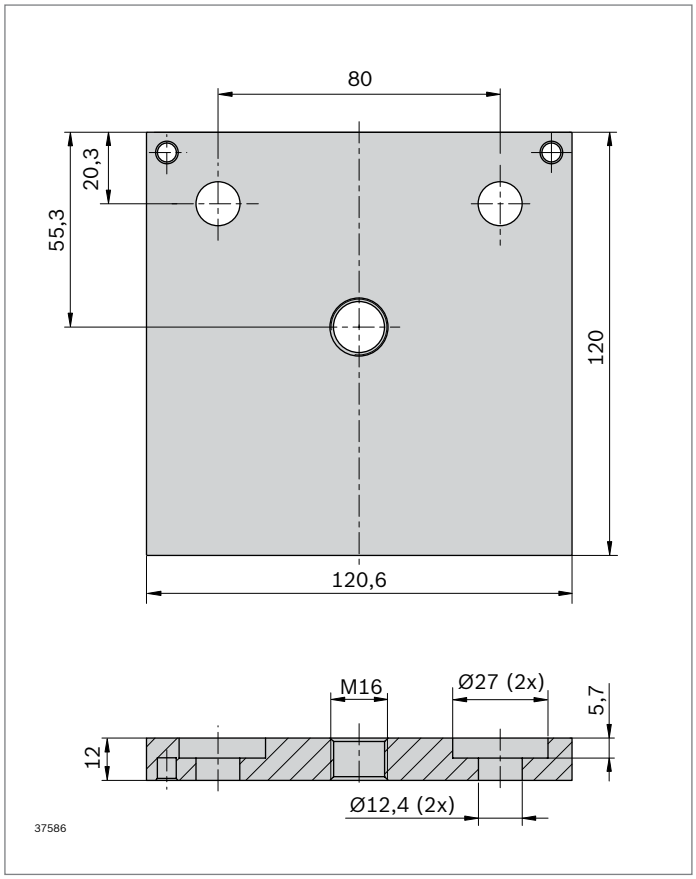
- Screw-on plate for supports or castor wheels
- Suitable for mounting on profile joints or cable guide profile

Required accessories:

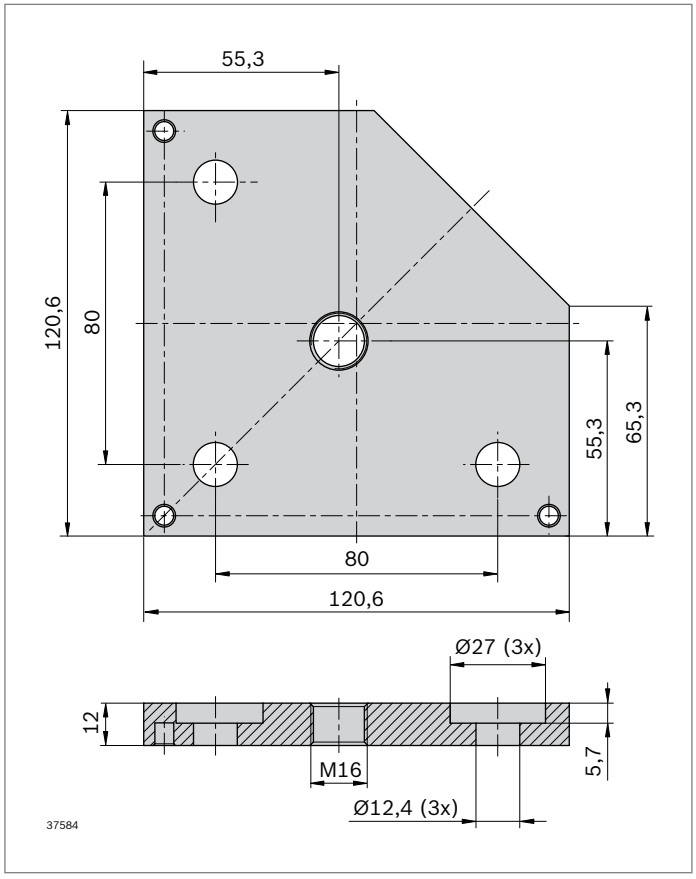
- Central bolt M12x30 or S12x30 (for fastening in the central hole)
- Central bolt M12x30, hexagon nut ISO 4035 M12 (for fastening at profile joint)
- Positioning pin (**3 842 558 487**, p. 2-106) to facilitate installation



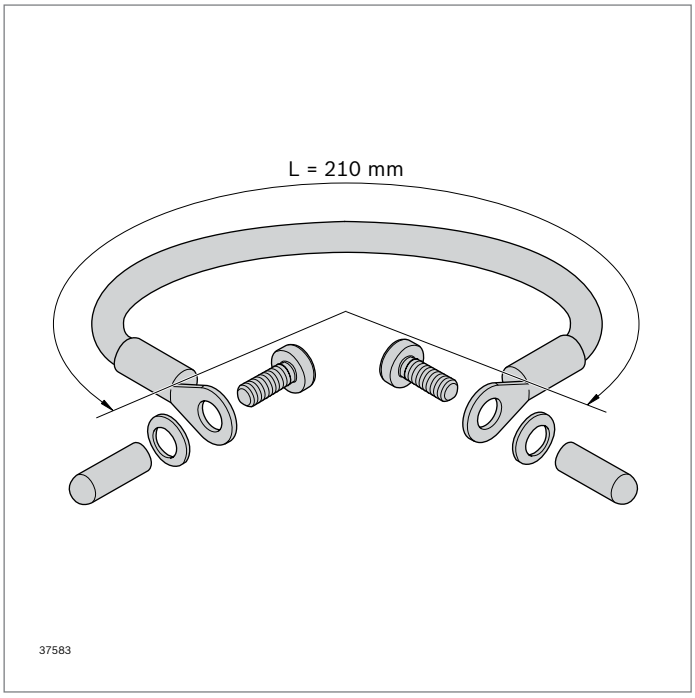

| Base plate | | ESD | No. |
|---|---|---|---|
| **60x120** | | | **3 842 558 218** |
| Material: | Steel; zinc-plated | | |




| 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

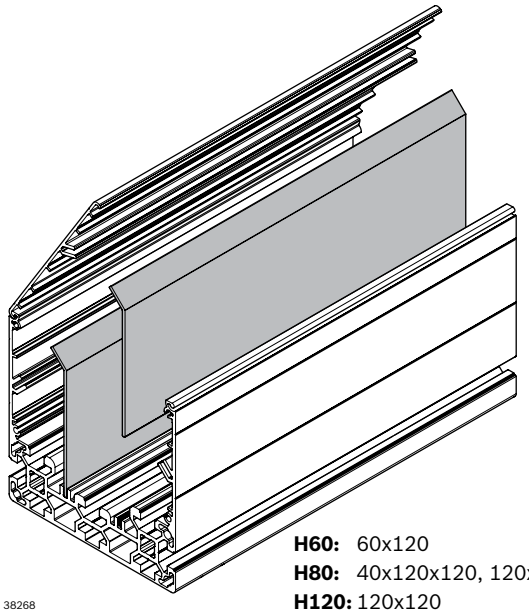
| Potential equalizer line | | No. |
|---|---|---|
| | | **3 842 552 234** |
| Material: | Cable: plastic-coated<br>Fastening material: Steel; zinc-plated | |



## Protective hose

- Cable protection conduit with Velcro fastener
- Bundle diameter up to max. 38 mm

| Protective hose | **L** (mm) | No. |
|---|---|---|
| | 3000 | **3 842 558 248** |
| Material: | PET; black | |

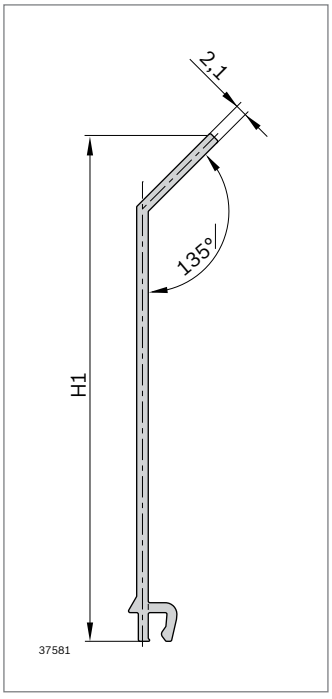


38268

**H60:** 60x120
**H80:** 40x120x120, 120x120 6N
**H120:** 120x120

## Dividing strip

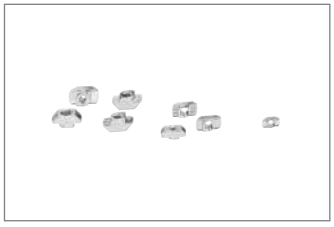
- Divides the cable guide profile into 2 or 3 chambers for routing different cable types (power/data cables etc.)
- Push-in installation
- The angled ends of the dividing strips keep the cables in the intended chamber even in a horizontal installation position




| Dividing strip | H1 (mm) | L (mm) | | No. |
|---|---|---|---|---|
| **H60** | 30 | 3000 | 10 | **3 842 558 245** |
| **H80** | 68 | 3000 | 10 | **3 842 558 222** |
| **H120** | 90 | 3000 | 10 | **3 842 558 244** |
| Material: | PVC; signal gray | | | |

# Connection elements

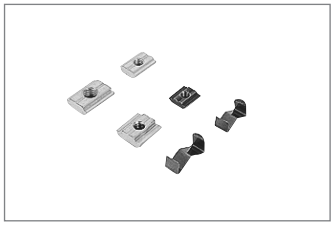




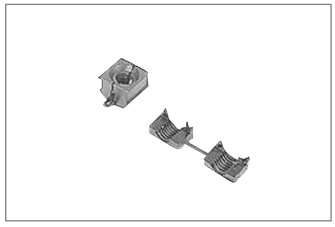
T-nut (p. 3-4)
Collar screw (p. 3-5)



Flange nut,
T-bolt (p. 3-6)



Sliding block (p. 3-7)



Expanding nut (p. 3-10)



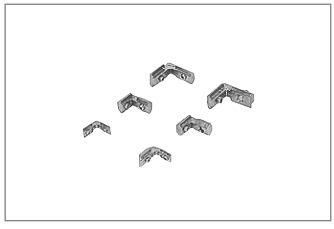
Parallel connector (p. 3-11)



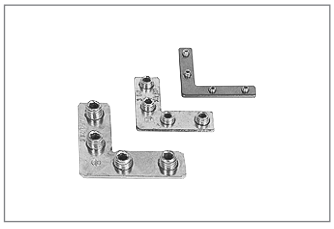
Tensioning connector
(p. 3-13)



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)



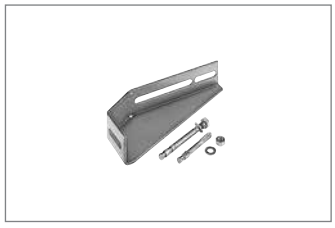
Bracket R (p. 3-31)



Steel bracket (p. 3-33)



Metal bracket, supporting
bracket (p. 3-34)



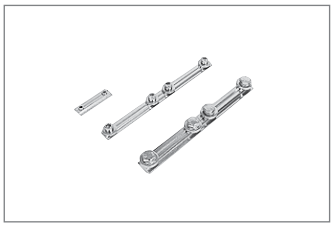
Foundation bracket
(p. 3-36)



Holder (p. 3-37)



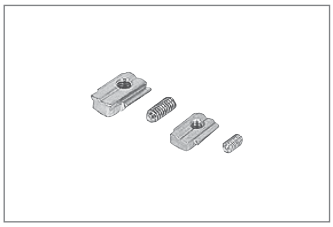
Supporting bracket
(p. 3-39)



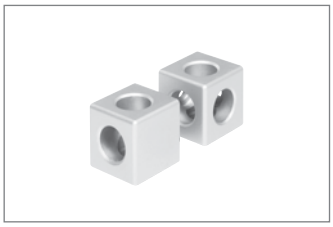
Profile connector (p. 3-41)



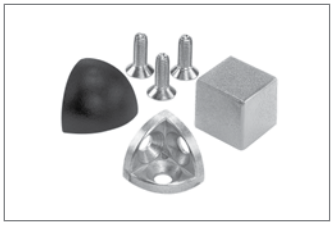
Central bolt (p. 3-43)



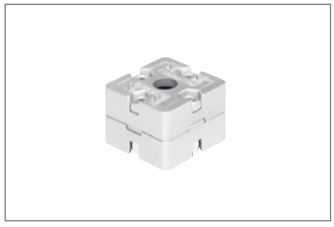
Anti-torsion element (p. 3-44)



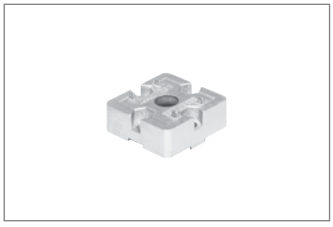
Cubic connector (p. 3-45)



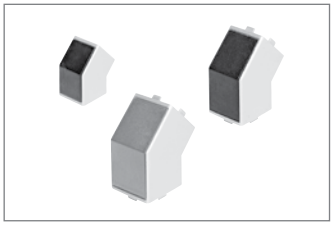
Corner bracket (p. 3-49)



End connector (p. 3-51)



T-connector (p. 3-53)



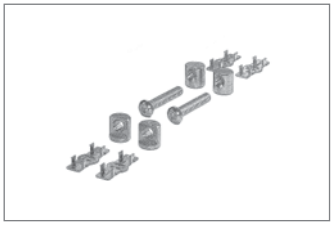
Connector 45° (p. 3-55)



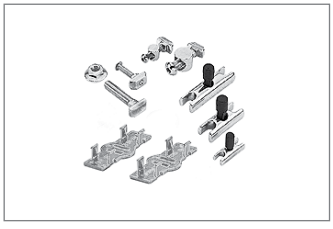
Quick connector
(p. 3-56)



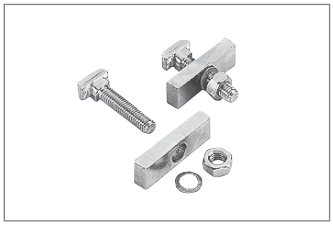
Quick connector, bendable
(p. 3-61)



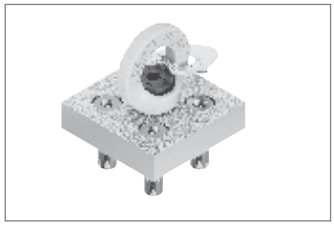
Longitudinal end connector
(p. 3-63)



Bolt connector (p. 3-64)



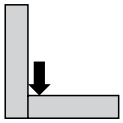
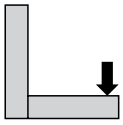
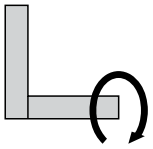
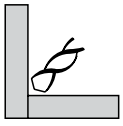
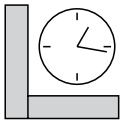
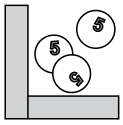
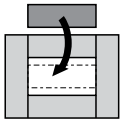
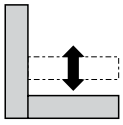
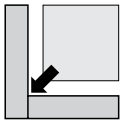
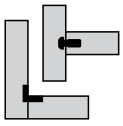
QV mounting kit
(p. 3-66)

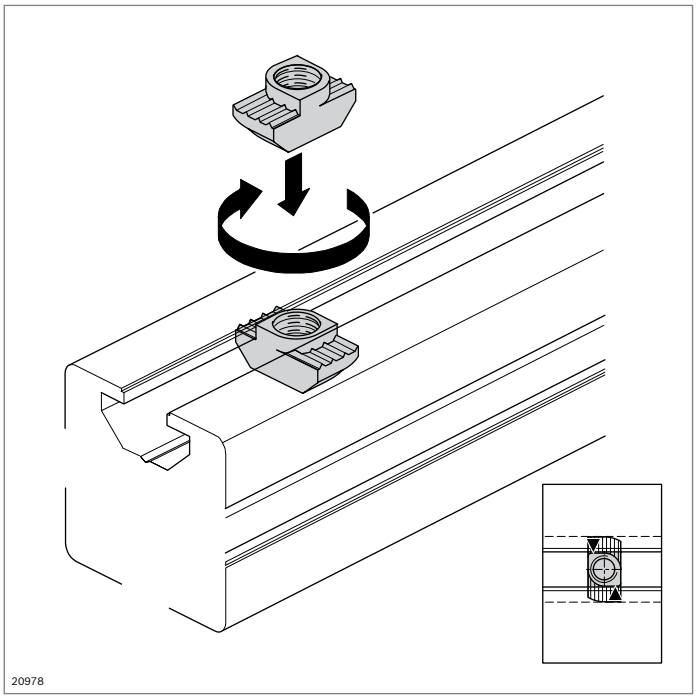


Lifting eye bolt
(see page 3-67)

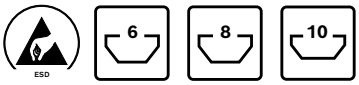
## Connection elements, selection criteria

● recommended ◑ suitable ○ unsuitable

| | Coupling | Slot connector | Inner bracket | Bracket | Central bolt | T-connector | Quick connector | Bolt connector |
|---|---|---|---|---|---|---|---|---|
|  High feed force | ● | ● | ○ | ● | ● | ● | ● | ● |
|  High moment | ◑ | ◑ | ○ | ● | ◑ | ◑ | ○ | ● |
|  High torsional moment | ● | ● | ○ | ◑ | ○ | ● | ○ | ● |
|  Minimal finishing | ● | ● | ● | ● | ◑ M12 9,8 | ● | ◑ D17 | ◑ D17 |
|  Minimal assembly | ● | ● | ● | ● | ● | ○ | ● | ○ |
|  Low parts costs | ◑ | ◑ | ◑ | ◑ | ● | ○ | ◑ | ○ |
|  Subsequent mounting in closed frame possible | ◑ | ◑ | ○ | ● | ○ | ◑ | ○ | ● |
|  Adjustment possible | ● | ● | ◑ | ● | ○ | ● | ● | ● |
|  Mounting of panel elements | ◑ | ◑ | ◑ | ◑ | ● | ○ | ● | ○ |
|  Internal connection (concealable) | ● | ● | ● | ○ | ● | ◑ | ◑ | ● |



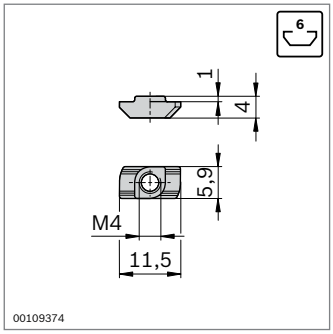

## T-nut




- 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

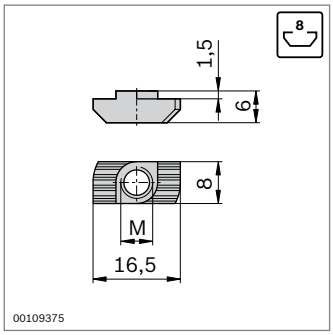
Technical data (p. 18-15)

Accessories:
Insulating cap (p. 3-5)




| Slot | $F_{max}$ |
|---|---|
| 6 | 1700 N |

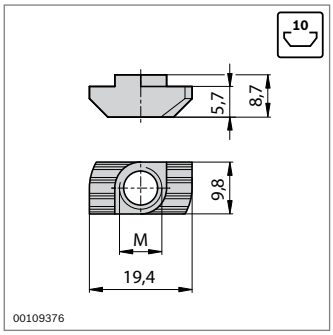
| T-nut, 6 mm slot | Slot | M | ESD | | No. |
|---|---|---|---|---|---|
| **Steel; zinc-plated** | 6 | M4 | | 100 | **3 842 523 135** |
| **Stainless steel** | 6 | M4 | | 100 | **3 842 536 599** |




| Slot | $F_{max}$ |
|---|---|
| 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.

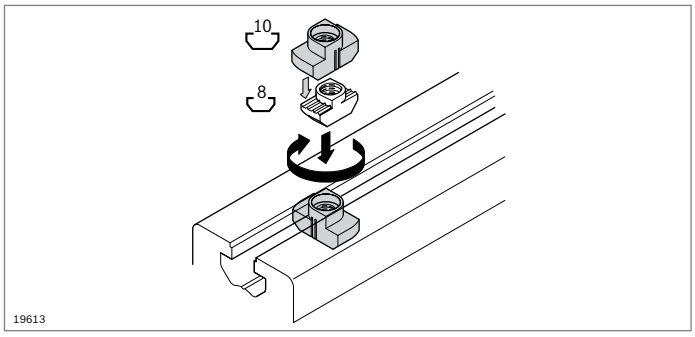



| Slot | $F_{max}$ |
|---|---|
| 10 (M8) | 6000 ... 18000 N[1)] |

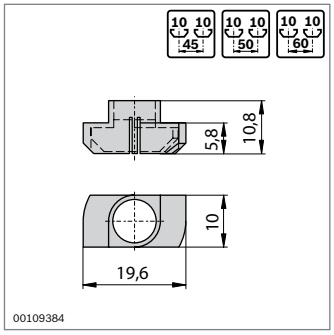
[1)] Depending on profile (p. 19-5)

| 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.

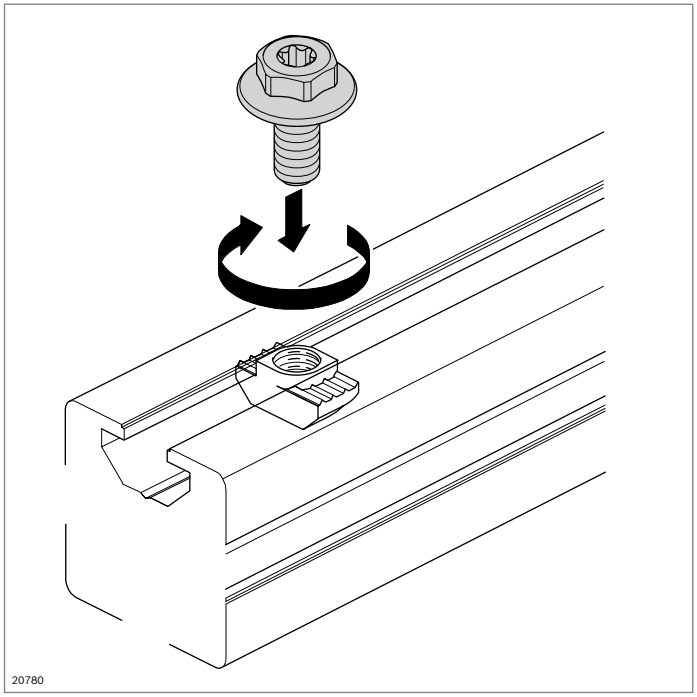



- Insulating cap for decoupling directly grounded components; for use with T-nuts for 8 mm slots in a 10 mm slot




| Insulating cap for T-nut 8 mm slot | Slot | | No. |
|---|---|---|---|
| | 10 | 10 | **3 842 524 012** |

Material: PA; high-strength, black

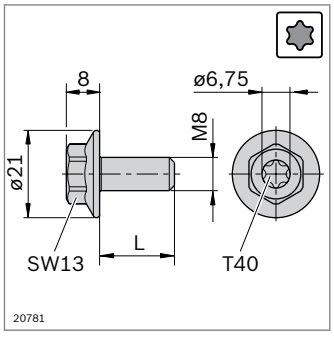



## Collar screw

- 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)

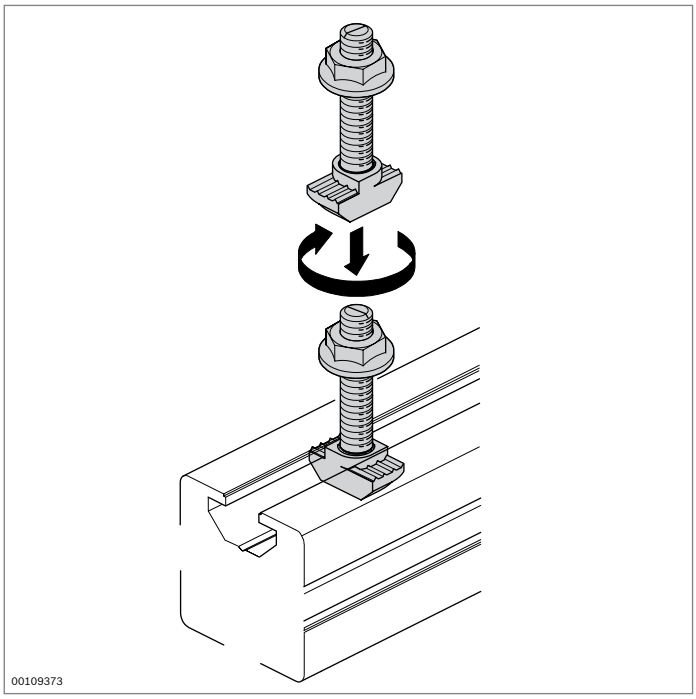



| Collar screw | M | L (mm) | ESD | | No. |
|---|---|---|---|---|---|
| **M8x18-SW13-T40**[1] | M8 | 18 | ESD | 100 | **3 842 541 246** |
| **M8x20-SW13-T40**[2] | M8 | 20 | ESD | 100 | **3 842 541 409** |

[1] For 40/40 and 60/60 brackets

[2] For all other brackets for 10 mm slot

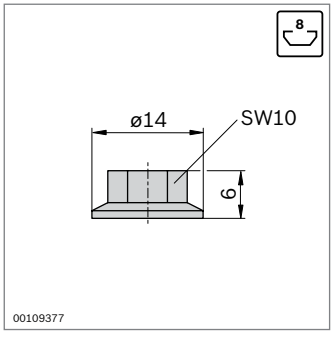
Material: Steel; zinc-plated

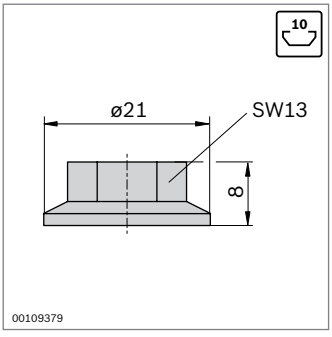



## Flange nut
## T-bolt

- Secure and conductive connection
- Notch at bolt end as marker for correct position recognition
- Profile finishing: Not required

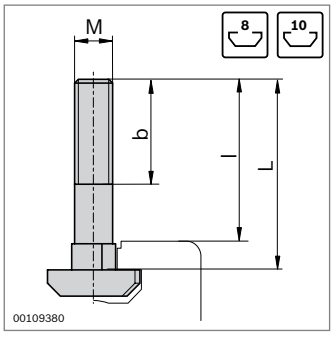
Technical data (p. 18-15)




| Flange nut | Slot | M | ESD | | No. |
|---|---|---|---|---|---|
| | 8 | M6 | | 100 | **3 842 523 925** |
| | 10 | M8 | | 100 | **3 842 345 081** |

Material: Steel; zinc-plated

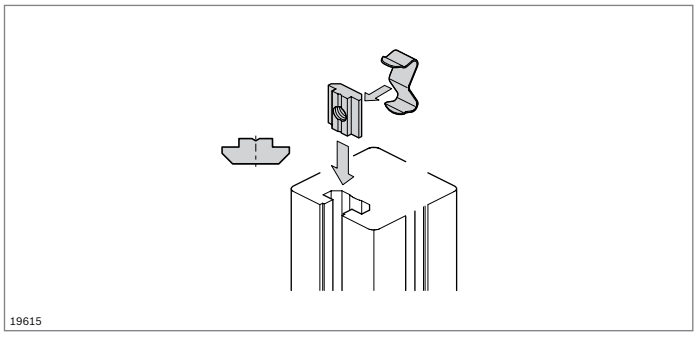



| Slot | $F_{max}$ |
|---|---|
| 8 | 4000 N |
| 10 | 6000 ... 18000 N[1)] |

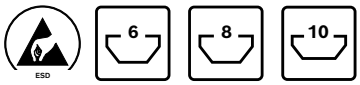
[1)] Depending on profile (p. 18-15)

| T-bolt | Slot | MxL | b (mm) | l (mm) | ESD | | No. |
|---|---|---|---|---|---|---|---|
| | 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 | 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

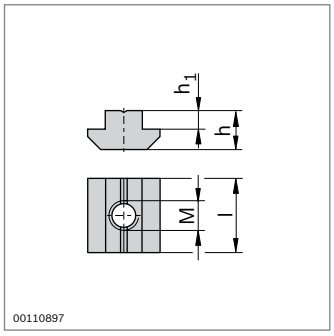



## Sliding block, sliding block profile




- 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)

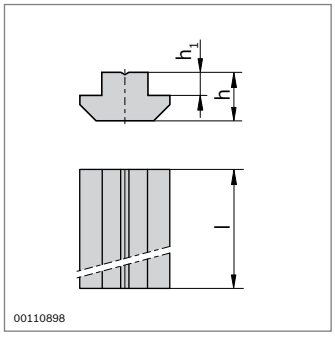



| Slot | Fmax |
|---|---|
| 6 (M5) | 3000 N |
| 8 (M8) | 6000 N |
| 10 (M8) | 8000 ... 24000 N[1)] |

[1)] Depending on profile (p. 18-15)

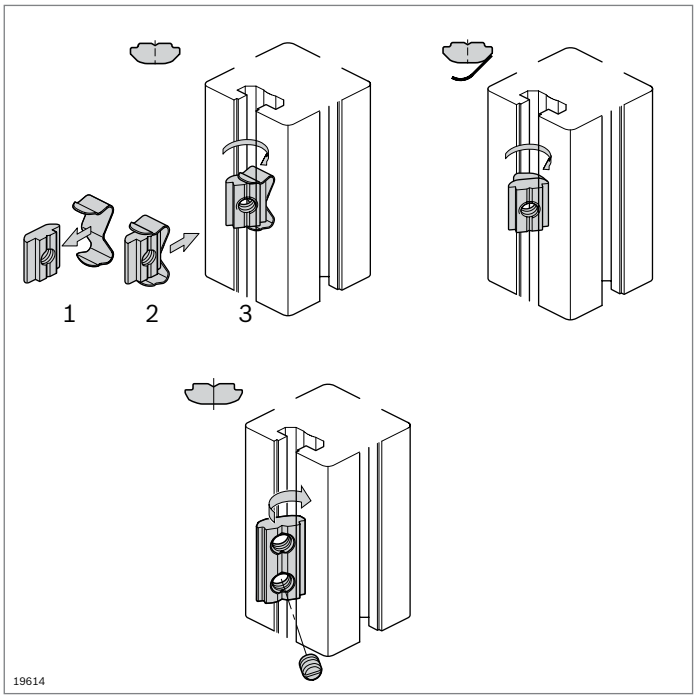
| Sliding block | Slot | M | h (mm) | $h_1$ (mm) | l (mm) | ESD | | No. |
|---|---|---|---|---|---|---|---|---|
| **Steel; zinc-plated** | 6 | M4 | 4.0 | 1.0 | 12 | ✓ | 100 | **3 842 542 692** |
| | | M5 | 4.0 | 1.0 | 12 | ✓ | 100 | **3 842 542 693** |
| | 8 | M4 | 6.0 | 2.0 | 16 | | 100 | **3 842 514 928** |
| | | 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 | ✓ | 100 | **3 842 523 140** |
| | | 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)




| Sliding block profile | Slot | h (mm) | $h_1$ (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** |

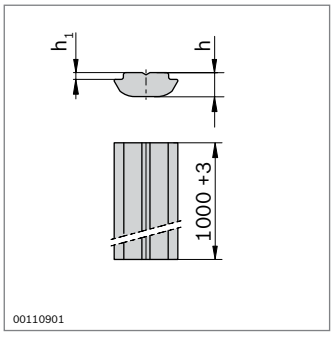
Accessories: Spring (p. 3-9)



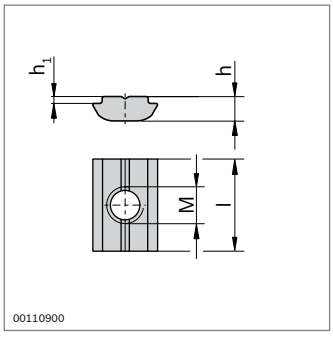

## Swivel-in sliding block
## Swivel-in sliding block profile
## Spring

- 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)




| Swivel-in sliding block profile | Slot | h (mm) | $h_1$ (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** |

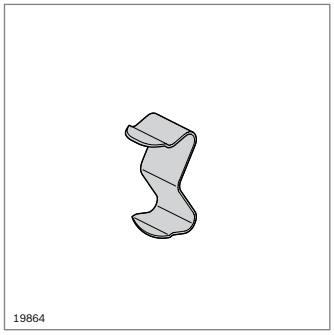



| Slot | $F_{max}$ |
|---|---|
| 8 (M8) | 2200 N |
| 10 (M8) | 8000 ... 18000 N[1)] |

[1)] Depending on profile (p. 18-15)

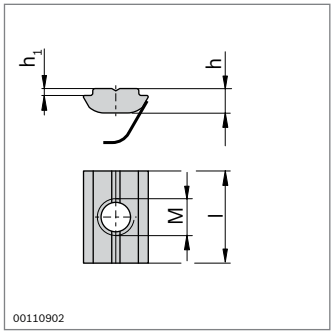
| Swivel-in sliding block | Slot | M | h (mm) | $h_1$ (mm) | l (mm) | ESD | | No. |
|---|---|---|---|---|---|---|---|---|
| **Steel; zinc-plated** | 8 | M5 | 4.8 | 1.0 | 16 | | 100 | **3 842 529 319** |
| | | M6 | 4.8 | 1.0 | 16 | | 100 | **3 842 529 320** |
| | | M8 | 4.8 | 1.0 | 16 | | 100 | **3 842 529 321** |
| | 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 | ESD | 100 | **3 842 547 826** |
| | | M4 | 3.0 | 0.9 | 12 | ESD | 100 | **3 842 536 669** |
| | | M5 | 3.0 | 0.9 | 12 | ESD | 100 | **3 842 547 825** |
| | 8 | M6 | 4.8 | 1.0 | 16 | ESD | 100 | **3 842 530 321** |
| | 10 | M8 | 5.3 | 1.5 | 20 | ESD | 100 | **3 842 530 316** |

Accessories: Spring (p. 3-9)




- The spring assists with the assembly and positioning of the sliding block and swivel-in sliding block

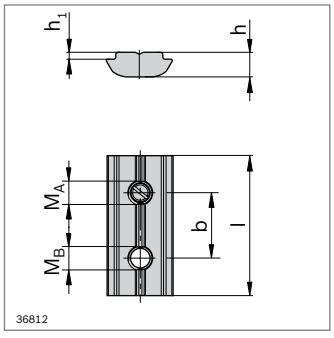
| Spring | Slot | | No. |
|---|---|---|---|
| **Spring steel; stainless** | 6 | 100 | **3 842 523 145** |
| | 8 | 100 | **3 842 516 685** |
| | 10 | 100 | **3 842 516 669** |



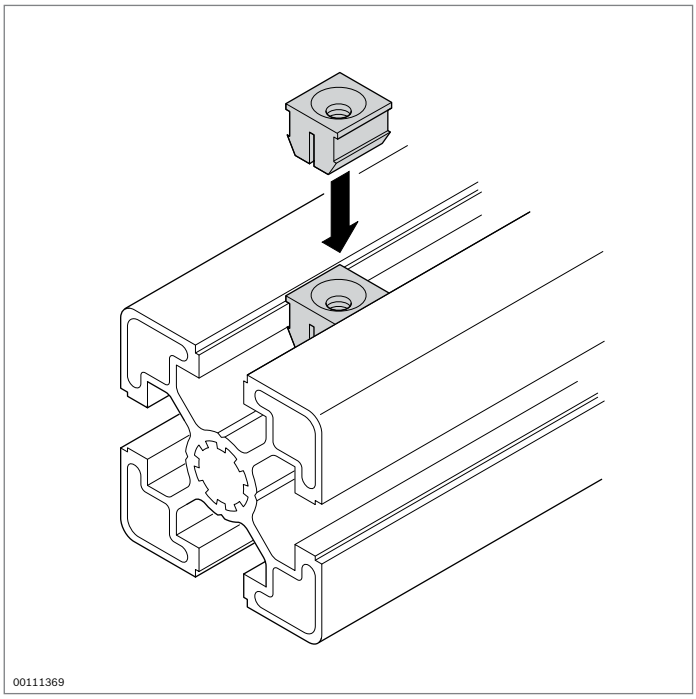

| Slot | $F_{max}$ |
|---|---|
| 8 (M8) | 2200 N |
| 10 (M8) | 8000 ... 18000 N[1)] |

[1)] Depending on profile (p. 18-15)

| Swivel-in sliding block with spring | Slot | M | h (mm) | $h_1$ (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 ($M_A$) | Slot | $M_A$; $M_B$ | b (mm) | h (mm) | $h_1$ (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** |

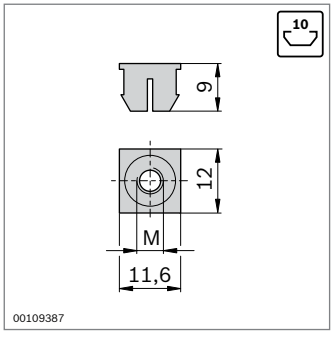



## Expanding nut



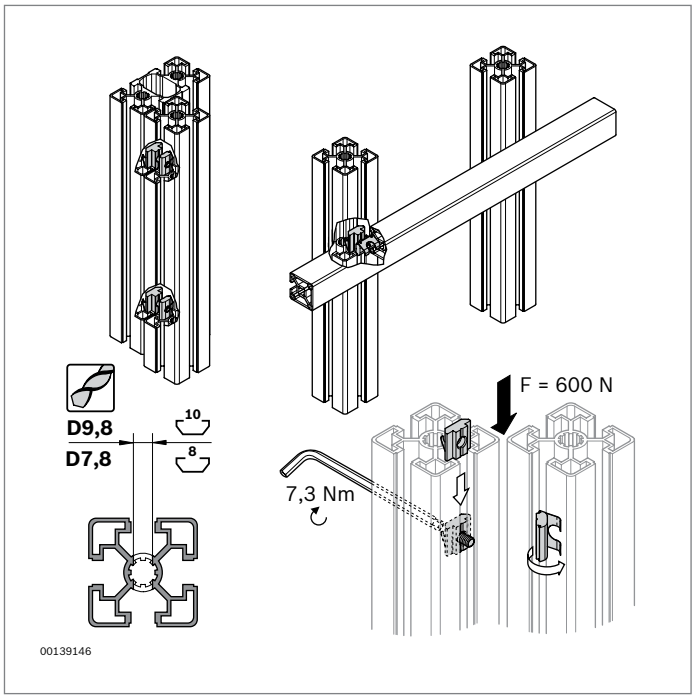

- For attaching light accessories such as cable ties or rings
- Easy assembly by clipping into the profile slot
- Profile finishing: Not required

Required accessories:
Countersunk screw

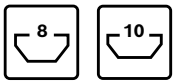



| Expanding nut | Slot | M | | No. |
|---|---|---|---|---|
| | 10 | M4 | 100 | **3 842 554 774** |
| | | M5 | 100 | **3 842 554 776** |
| | | M6 | 100 | **3 842 554 778** |

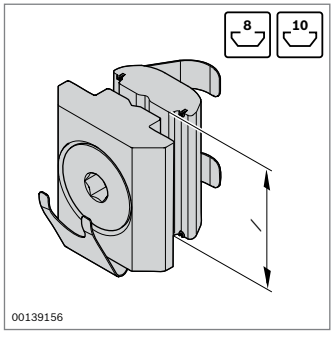
Material: PA; signal gray similar to RAL 7004




## 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

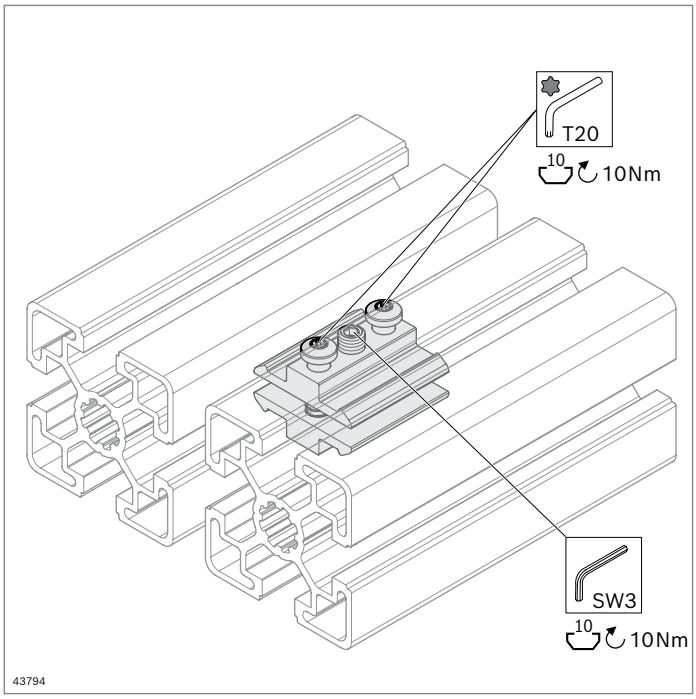



| Slot | $F_{max}$ |
|---|---|
| 8 | 600 N |
| 10 | 600 N |

| Parallel connector | Slot | l (mm) | | No. |
|---|---|---|---|---|
| | 8 | 16 | 10 | **3 842 542 737** |
| | 10 | 20 | 10 | **3 842 542 736** |

Material: Sliding block: Steel; zinc-plated
Spring: Spring steel; stainless

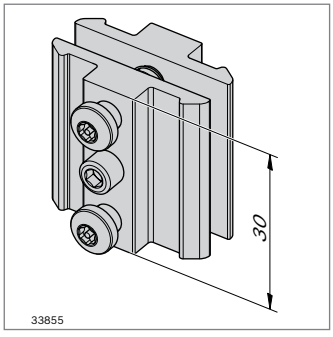
Scope of delivery: Sliding block with spring; swivel-in sliding block with spring; M5 countersunk screw




## Quick parallel connector

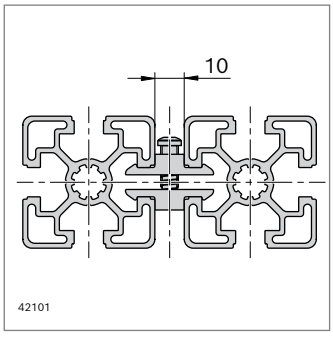


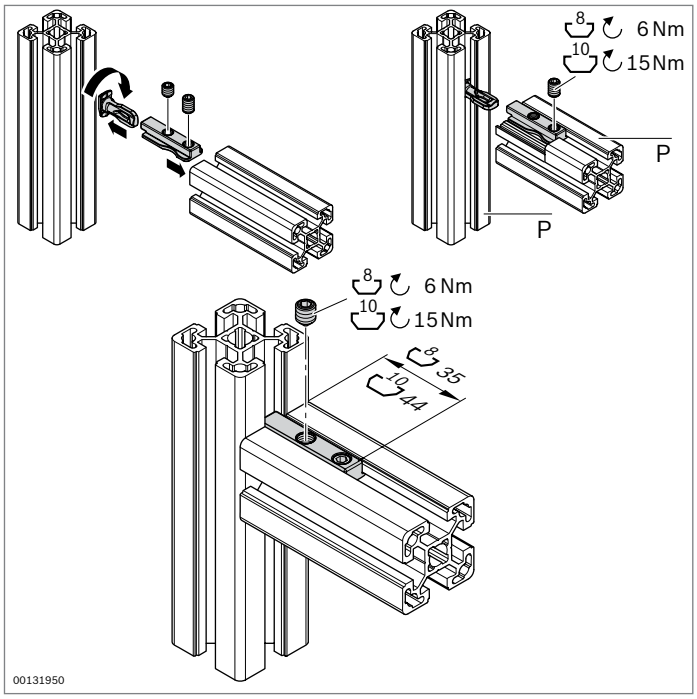

- For connection of two strut profiles, axially parallel with 10 mm distance
- Parallel connector pre-assembled
- The center screw is used for tightening
- Connection possible at any point along the profile slot
- Transferable displacement force per parallel connector: 500 N
- No machining of the profile necessary




| Slot | $F_{max}$ |
|---|---|
| 10 | 500 N |

| Quick parallel connector | | Slot | | No. |
|---|---|---|---|---|
| | | 10 | 10 | **3 842 564 742** |
| Material: | Steel; zinc-plated | | | |






| P | $F_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|
| 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 |

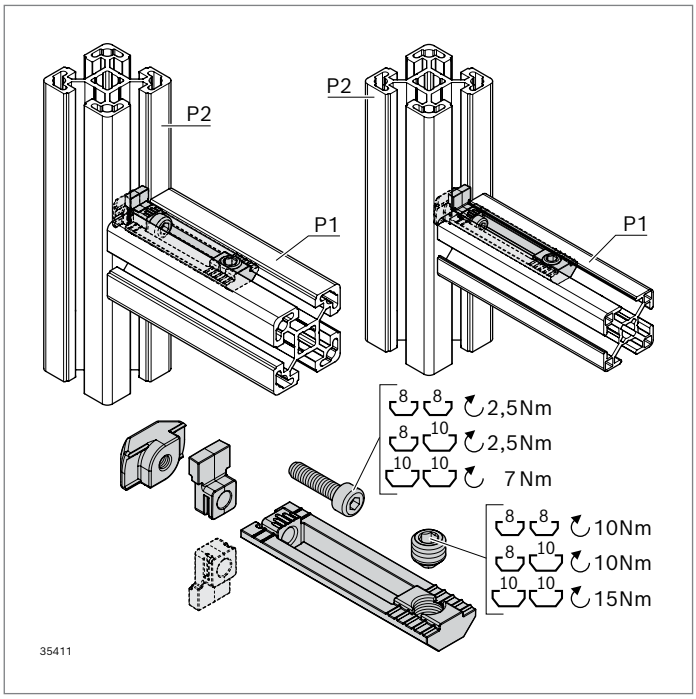
## Coupling

- 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)

| Coupling | Slot | P | ESD | | No. |
|---|---|---|---|---|---|
| **8** | 8 | 30x... | | 10 | **3 842 538 489** |
| **10L** | 10 | 45x...L<br>45x90SL<br>90x90SL | | 10 | **3 842 538 491** |
| **10** | 10 | 40x...L,<br>45x...,<br>50x...L,<br>60x...,<br>60x...L<br>80x...L<br>90x...,<br>90x...L,<br>45x90x90L | | 10 | **3 842 538 490** |

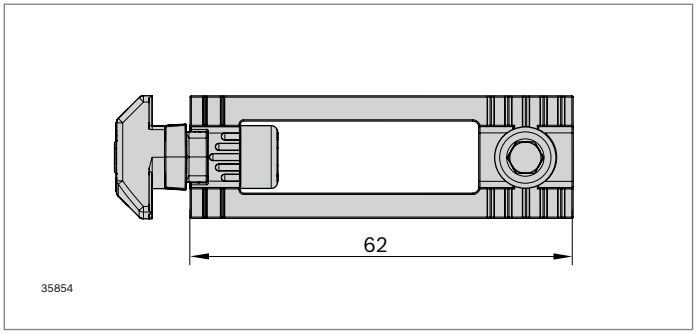
Material: Steel; zinc-plated




## Slot connector



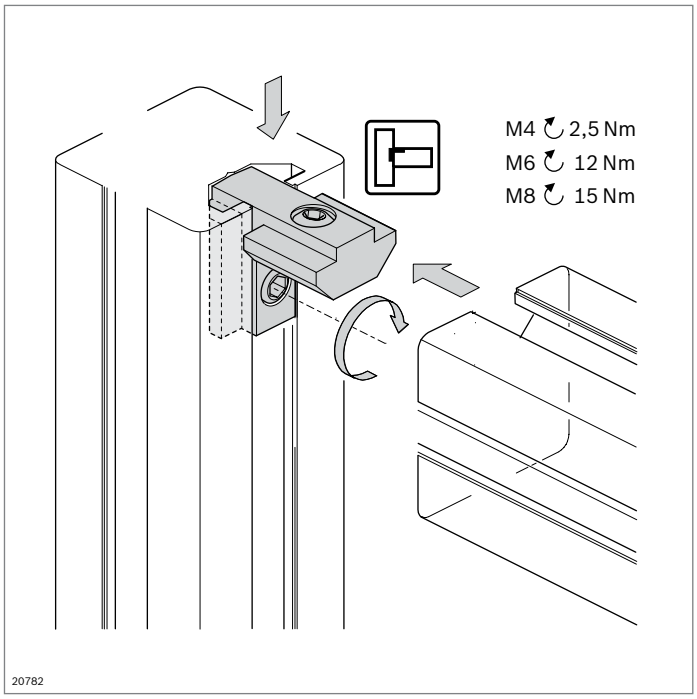

- Slot connector for fast assembly
- The connector can be moved within the slot
- Easily accessible screws
- Anti-torsion element can be removed if necessary, variable alignment (slot 10/10; 8/10)
- Headless setscrew, preassembled
- Profile finishing: Not required



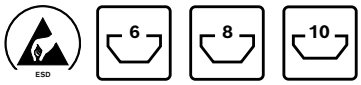

| Slot connector | P1 | P2 | ESD | | No. |
|---|---|---|---|---|---|
| **8/8** | 8 | 8 | | 10 | **3 842 558 566** |
| **8/10** | 8 | 10 | | 10 | **3 842 558 567** |
| **10/10** | 10 | 10 | | 10 | **3 842 558 568** |

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 |

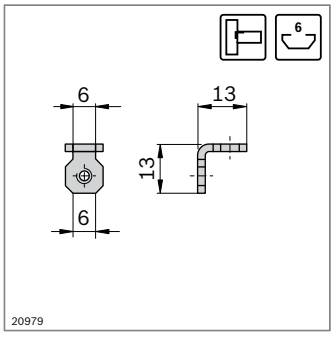



## Inner bracket




- 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)

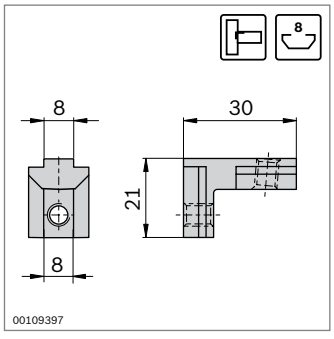



**FS1**



ISO 4027
M4x6

| Inner bracket | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 6 / 6 | | 10 | **3 842 535 574** | 2xFS1 |
| Material: | Sheet steel; zinc-plated<br>Fastening material: Steel; zinc-plated | | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | | |



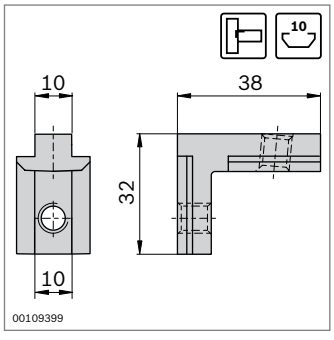

| Slot | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 8 / 8 | 2200 N | 50 Nm |

**FS2**



DIN 913
M6x8

| Inner bracket | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 8 / 8 | | 10 | **3 842 535 578** | 2xFS2 |
| Material: | Cast steel; zinc-plated<br>Fastening material: Steel; zinc-plated | | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | | |



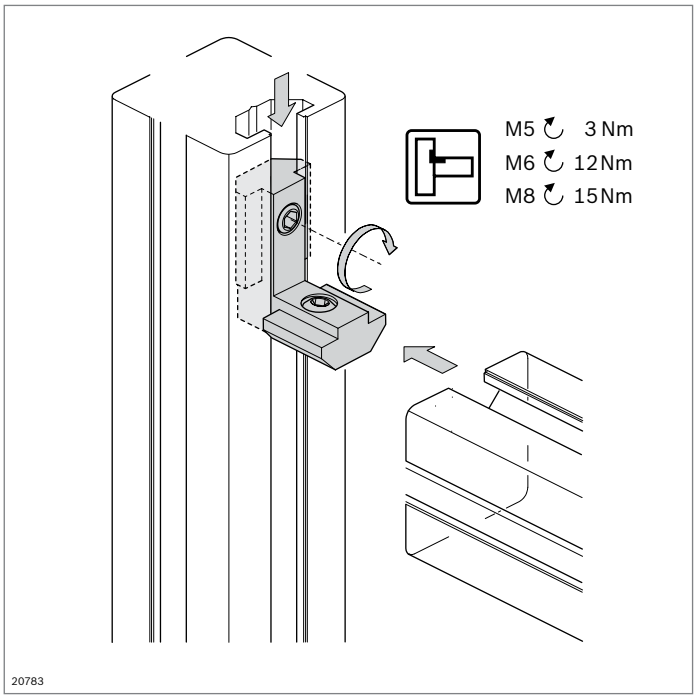

| Slot | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 10 / 10 | 2800 N | 100 Nm |

**FS3**



ISO 4026
M8x12

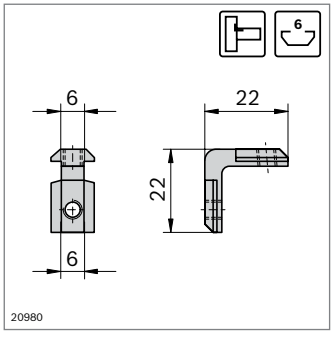
| Inner bracket | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 10 / 10 | | 10 | **3 842 535 572** | 2xFS3 |
| Material: | Cast steel; zinc-plated<br>Fastening material: Steel; zinc-plated | | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | | |




## 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

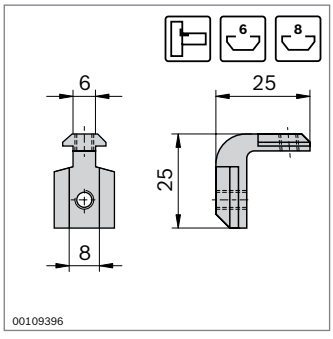
Technical data (p. 18-18)




| Slot | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 6 / 6 | 600 N | 10 Nm |

**FS1**
DIN 913
M5x5

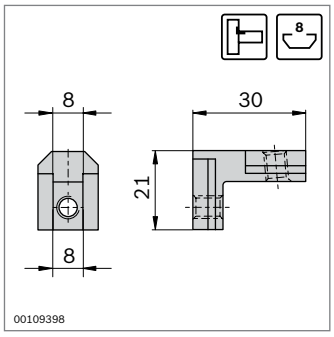
| Inner bracket R | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 6 / 6 | | 10 | **3 842 535 575** | 2xFS1 |
| Material: | Cast steel; zinc-plated<br>Fastening material: Steel; zinc-plated | | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | | |




| Slot | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 6 / 8 | 600 N | 10 Nm |

**FS1**
DIN 913
M5x5

| Inner bracket R | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 6 / 8 | | 10 | **3 842 535 573** | 2xFS1 |
| Material: | Cast steel; zinc-plated<br>Fastening material: Steel; zinc-plated | | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | | |

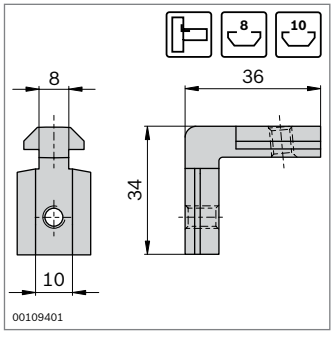



| Slot | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 8 / 8 | 2500 N | 50 Nm |

**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)



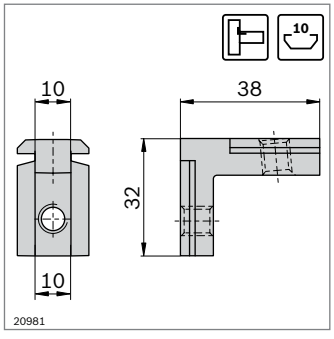

| Slot | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 8 / 10 | 2500 N | 50 Nm |

**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)

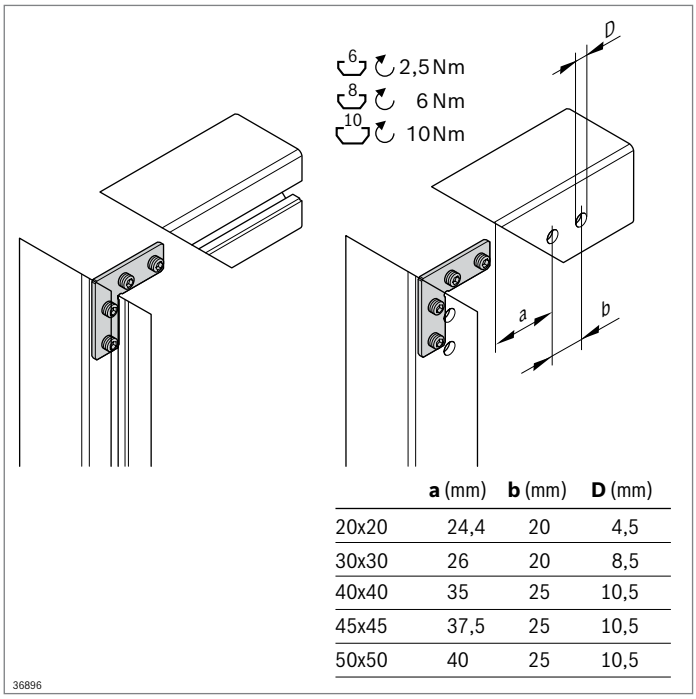



| Slot | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 10 / 10 | 3000 N | 100 Nm |

**FS4**
ISO 4026
M8x12

| Inner bracket R | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 10 / 10 | | 10 | **3 842 535 571** | 2xFS4 |

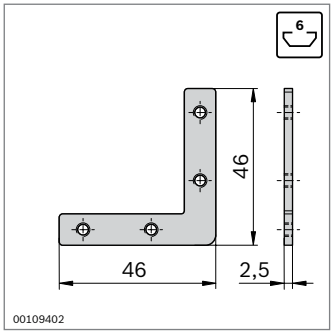
Material: Cast steel; zinc-plated
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)




| | **a** (mm) | **b** (mm) | **D** (mm) |
|---|---|---|---|
| 20x20 | 24,4 | 20 | 4,5 |
| 30x30 | 26 | 20 | 8,5 |
| 40x40 | 35 | 25 | 10,5 |
| 45x45 | 37,5 | 25 | 10,5 |
| 50x50 | 40 | 25 | 10,5 |

## Miter bracket

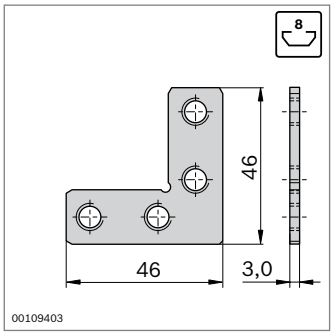
- For right-angled connections of miter-cut profiles
- Profile finishing with open profile slots: Not required
- Profile finishing with closed profile slots: Through-holes for screwdriver




**FS1**
DIN EN ISO 4027 M4x5

| Miter bracket | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 6 | | 20 | **3 842 535 626** | 4xFS1 |

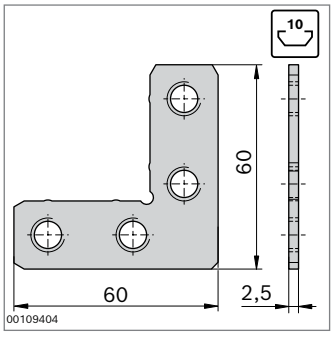
Material: Steel; stainless
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)




**FS2**
DIN EN ISO 4026 M8x8

| Miter bracket | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 8 | | 20 | **3 842 535 627** | 4xFS2 |

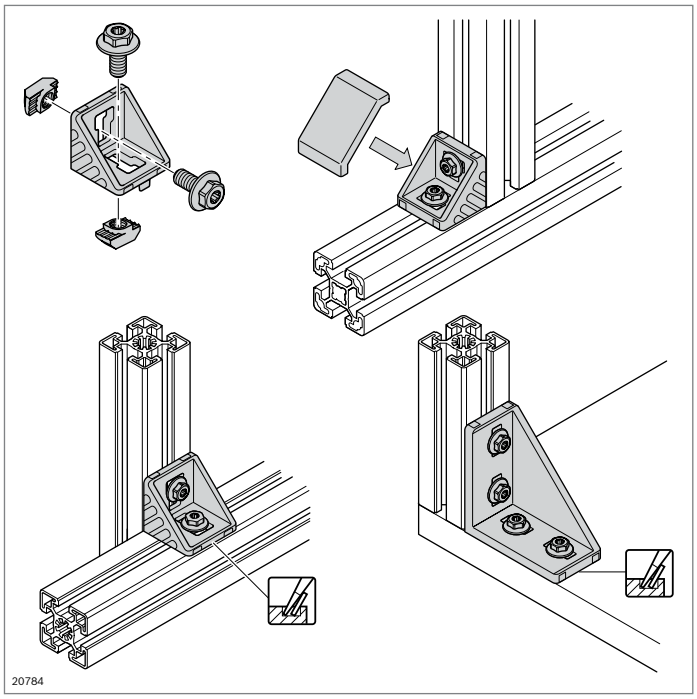
Material: Steel; zinc-plated
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

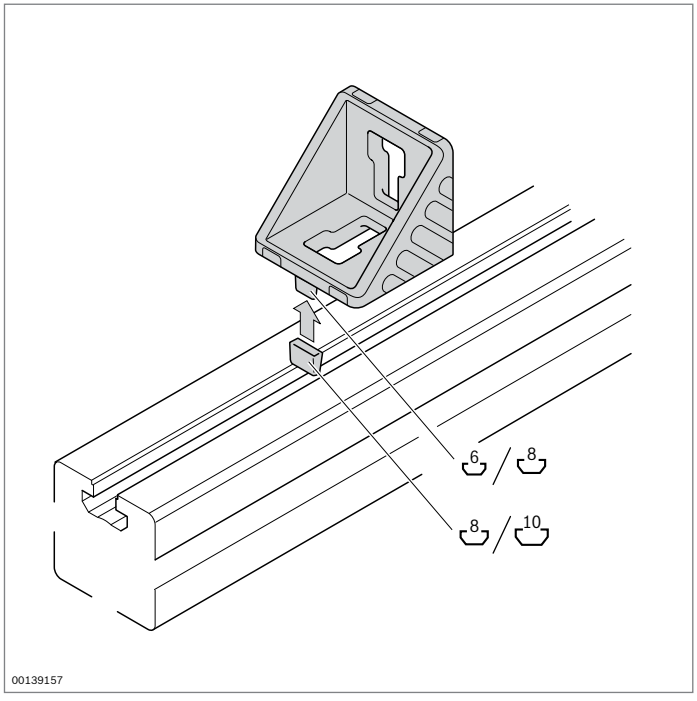



**FS3**
DIN EN ISO 4026 M10x10

| 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

*designLINE*

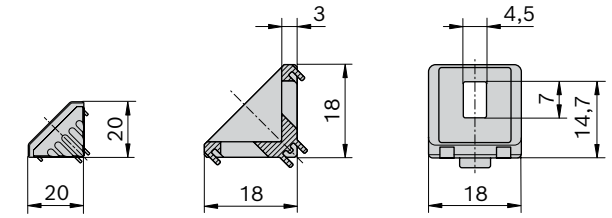
- Brackets with centering lugs for rapid, precise assembly with protection against turning
- Centering lugs can be easily broken off for assembly on plates or at right angles to the slot
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Intermediate 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)

## 20x20





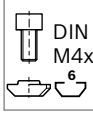

36866

| 20x20 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 6 / 6 | | 1 | **3 842 523 511** | 2xFS1 |
| *designLINE* set | 6 / 6 | | 1 | **3 842 551 596** | 2xFS1 |
| Bracket (standard) | 6 | | 100 | **3 842 523 508** | |
| Cover cap, signal gray | | | 100 | **3 842 548 842** | |
| Cover cap, black | | | 20 | **3 842 548 843** | |
| Intermediate element for 8 mm slot | 6 / 8 | | 100 | **3 842 523 516** | |

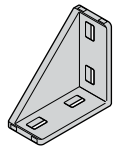
| | |
|---|---|
| Material: | Bracket Diecast aluminum<br>*designLINE* bracket: painted (RAL 9006)<br>Intermediate element: PA; black<br>Cover cap: PP<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Set incl. fastening material (FS) |

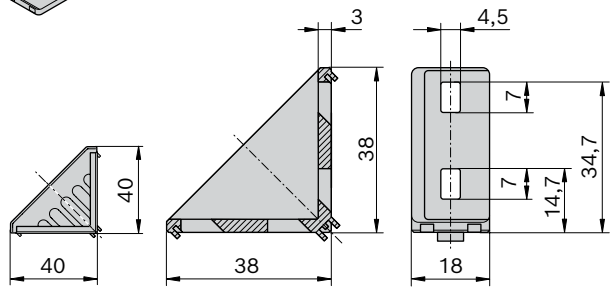
| Type | Fmax | Mmax | Mmax | Mmax |
|---|---|---|---|---|
| 20x20 | 700 N | 6 Nm | 25 Nm | – |

**FS1**




## 20x40





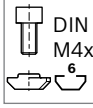

36867

| 20x40 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 6 / 6 | | 1 | **3 842 523 520** | 4xFS1 |
| *designLINE* set | 6 / 6 | | 1 | **3 842 551 597** | 4xFS1 |
| Bracket (standard) | 6 | | 20 | **3 842 523 517** | |
| Cover cap, signal gray | | | 20 | **3 842 548 844** | |
| Cover cap, black | | | 20 | **3 842 548 845** | |
| Intermediate element for 8 mm slot | 6 / 8 | | 100 | **3 842 523 516** | |

| | |
|---|---|
| Material: | Bracket Diecast aluminum<br>*designLINE* bracket: painted (RAL 9006)<br>Intermediate element: PA; black<br>Cover cap: PP<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Set incl. fastening material (FS) |

| Type | Fmax | Mmax | Mmax | Mmax |
|---|---|---|---|---|
| 20x40 | 1400 N | 15 Nm | 50 Nm | 8 Nm |

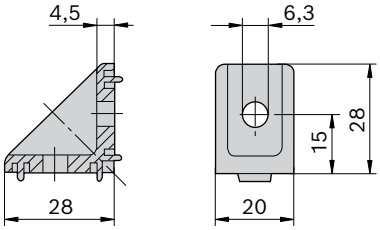
**FS1**



## 20x28






00125983

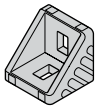
| 20x28 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 8 / 8 | | 1 | **3 842 502 137** | 2xFS1 |
| Bracket (standard) | 8 | | 100 | **3 842 501 587** | |

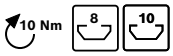
Material: Diecast zinc
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)

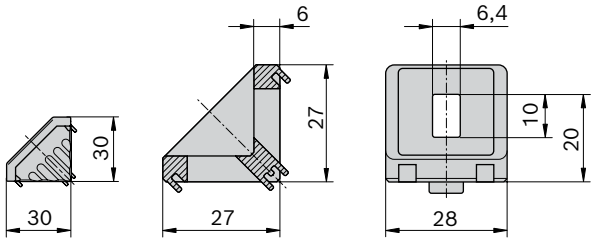
**FS1**




## 30x30





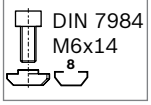

36868

| 30x30 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 8 / 8 | | 1 | **3 842 523 528** | 2xFS2 |
| | 8 / 10 | | 1 | **3 842 523 530** | 1xFS2, 2xFS3, 1xFS4 |
| | 10 / 10 | | 1 | **3 842 523 532** | 4xFS3, 2xFS4 |
| *designLINE* set | 8 / 8 | | 1 | **3 842 551 598** | 2xFS2 |
| | 8 / 10 | | 1 | **3 842 551 600** | 1xFS2, 2xFS3, 1xFS4 |
| | 10 / 10 | | 1 | **3 842 551 599** | 4xFS3, 2xFS4 |
| Bracket (standard) | 8 | | 100 | **3 842 523 525** | |
| Cover cap, signal gray | | | 100 | **3 842 548 846** | |
| Cover cap, black | | | 20 | **3 842 548 847** | |
| Intermediate element for 10 mm slot | 8 / 10 | | 100 | **3 842 523 537** | |

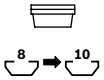
Material: Bracket Diecast aluminum
*designLINE* bracket: painted (RAL 9006)
Intermediate element: PA; black
Cover cap: PP
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)

| Type | $F_{max}$ | $M_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|---|
| 30x30 | 1250 N | 25 Nm | 75 Nm | – |

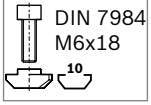
**FS2**

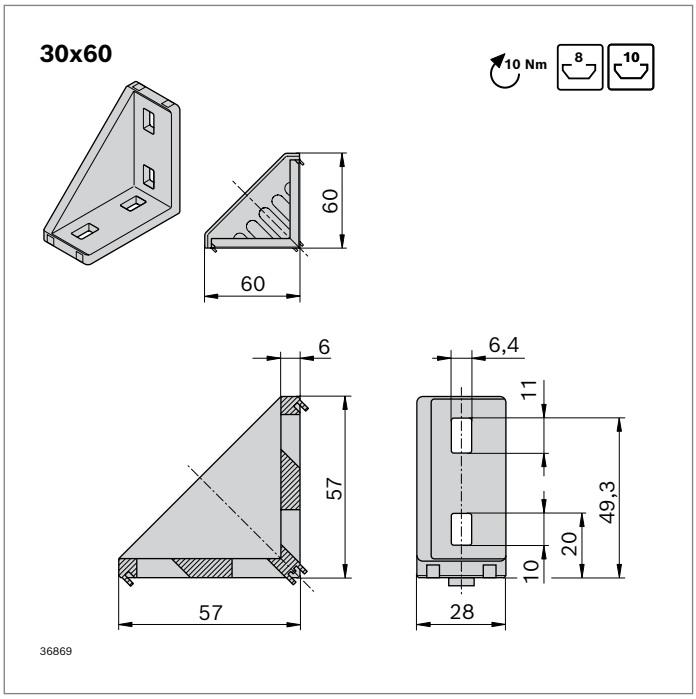



**FS3**




**FS4**



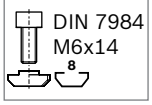


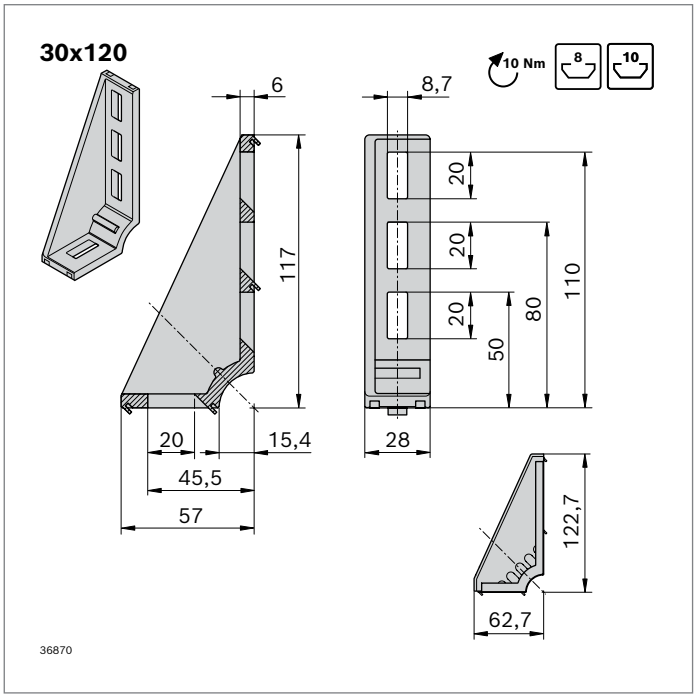

| 30x60 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 8 / 8 | | 1 | **3 842 523 541** | 4xFS2 |
| *designLINE* set | 8 / 8 | | 1 | **3 842 551 601** | 4xFS2 |
| Bracket (standard) | 8 | | 20 | **3 842 523 538** | |
| Cover cap, signal gray | | | 20 | **3 842 548 848** | |
| Cover cap, black | | | 20 | **3 842 548 849** | |
| Intermediate element for 10 mm slot | 8 / 10 | | 100 | **3 842 523 537** | |

| | |
|---|---|
| Material: | Bracket Diecast aluminum<br>*designLINE* bracket: painted (RAL 9006)<br>Intermediate element: PA; black<br>Cover cap: PP<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Set incl. fastening material (FS) |

| Type | $F_{max}$ | $M_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|---|
| 30x60 | 2500 N | 100 Nm | 170 Nm | 25 Nm |

**FS2**



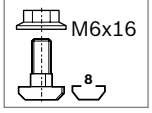




| 30x120 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| *designLINE* set | 8 / 8 | | 1 | **3 842 551 602** | 2xFS6 |
| Bracket (standard) | 8 | | 20 | **3 842 523 587** | |
| Cover cap, signal gray | | | 20 | **3 842 548 850** | |
| Cover cap, black | | | 20 | **3 842 548 851** | |
| Intermediate element for 10 mm slot | 8 / 10 | | 100 | **3 842 523 537** | |

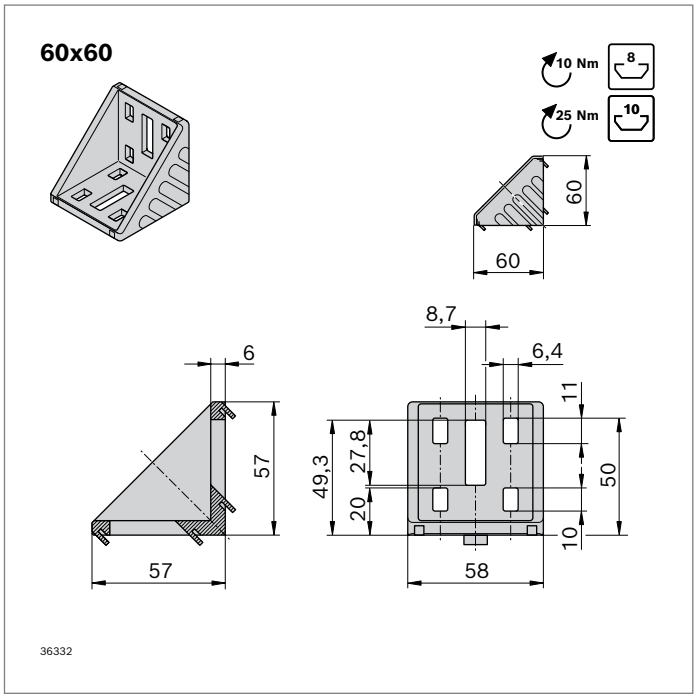
| | |
|---|---|
| Material: | Bracket Diecast aluminum<br>*designLINE* bracket: painted (RAL 9006)<br>Intermediate element: PA; black<br>Cover cap: PP<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Set incl. fastening material (FS) |

| Type | $F_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|
| 30x120 | 3750 N | 100 Nm | 47 Nm |

**FS6**



## 60x60

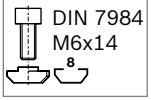



| 60x60 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 8 / 8 | | 1 | **3 842 523 549** | 8xFS2 |
| | 8 / 10 | | 1 | **3 842 523 551** | 4xFS2, 1xFS5 |
| | 10 / 10 | | 1 | **3 842 523 553** | 2xFS5 |
| *designLINE* set | 8 / 8 | | 1 | **3 842 551 609** | 8xFS2 |
| | 8 / 10 | | 1 | **3 842 551 610** | 4xFS2, 1xFS5 |
| | 10 / 10 | | 1 | **3 842 551 611** | 2xFS5 |
| Bracket (standard) | 8 | | 20 | **3 842 523 546** | |
| Cover cap, signal gray | | | 20 | **3 842 548 852** | |
| Cover cap, black | | | 20 | **3 842 548 853** | |
| Intermediate element for 10 mm slot | 10 | | 100 | **3 842 523 537** | |

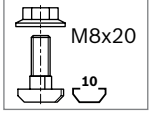
Material: Bracket Diecast aluminum
*designLINE* bracket: painted (RAL 9006)
Intermediate element: PA; black
Cover cap: PP
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)

| Type | Slot | Fmax | Mmax | Mmax | Mmax |
|---|---|---|---|---|---|
| 60x60 | 8 | 5000 N | 320 Nm | 370 Nm | 110 Nm |
| | 10 | 3000 N | 125 Nm | 150 Nm | – |

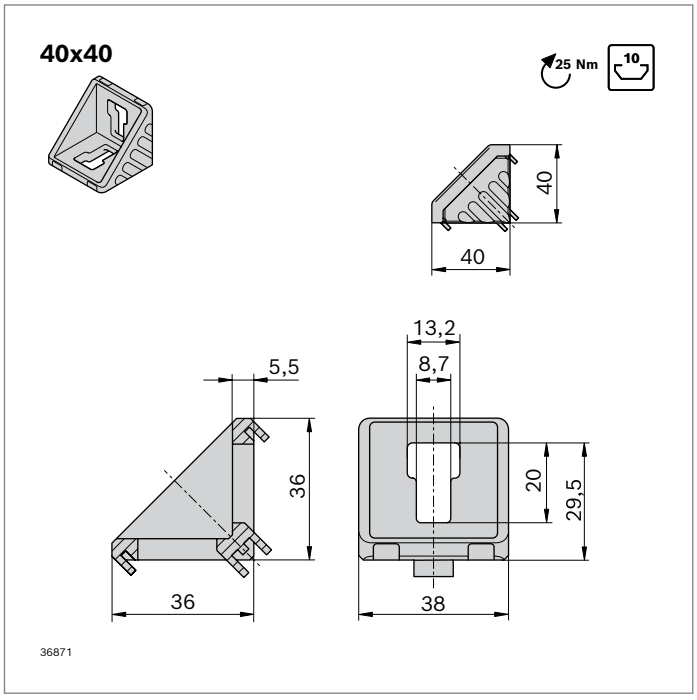
**FS2**




**FS5**




## 40x40

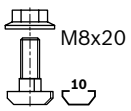


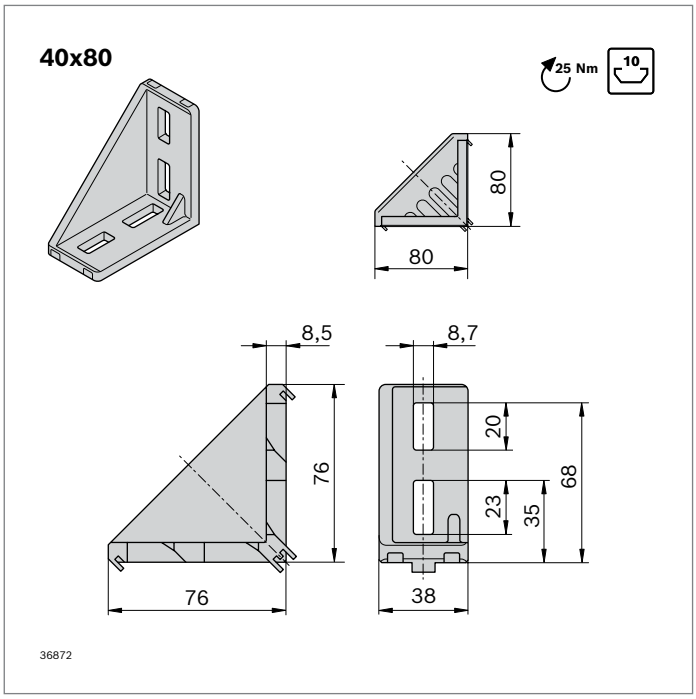

| 40x40 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | | 1 | **3 842 529 383** | 2xFS5 |
| *designLINE* set | 10 / 10 | | 1 | **3 842 551 603** | 2xFS5 |
| Bracket (standard) | 10 | | 100 | **3 842 528 967** | |
| Cover cap, signal gray | | | 100 | **3 842 548 854** | |
| Cover cap, black | | | 20 | **3 842 548 855** | |

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 | Fmax | Mmax | Mmax | Mmax |
|---|---|---|---|---|
| 40x40 | 3000 N | 55 Nm | 145 Nm | 35 Nm |

**FS5**

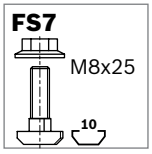


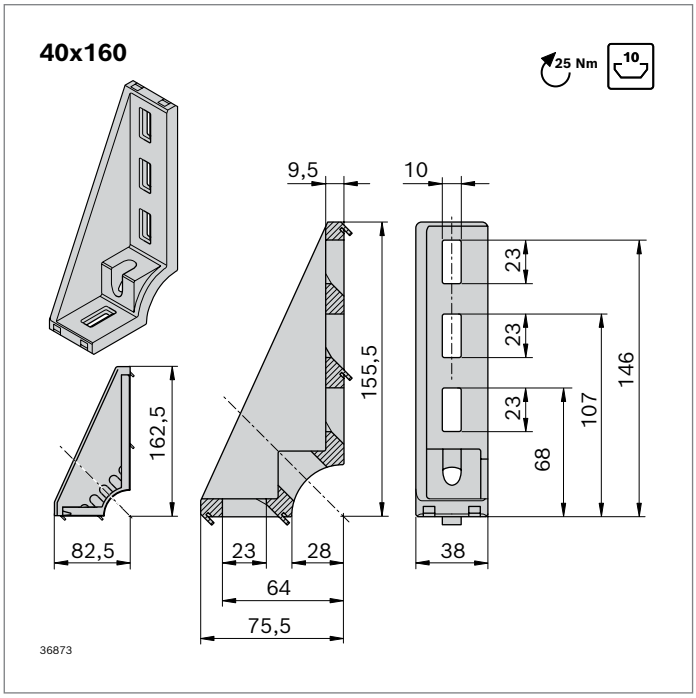



| 40x80 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | | 1 | **3 842 529 386** | 4xFS7 |
| *designLINE* set | 10 / 10 | | 1 | **3 842 551 604** | 4xFS7 |
| Bracket (standard) | 10 | | 20 | **3 842 529 005** | |
| Cover cap, signal gray | | | 20 | **3 842 548 856** | |
| 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 | Fmax | Mmax | Mmax | Mmax |
|---|---|---|---|---|
| 40x80 | 6000 N | 180 Nm | 400 Nm | 60 Nm |

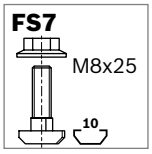


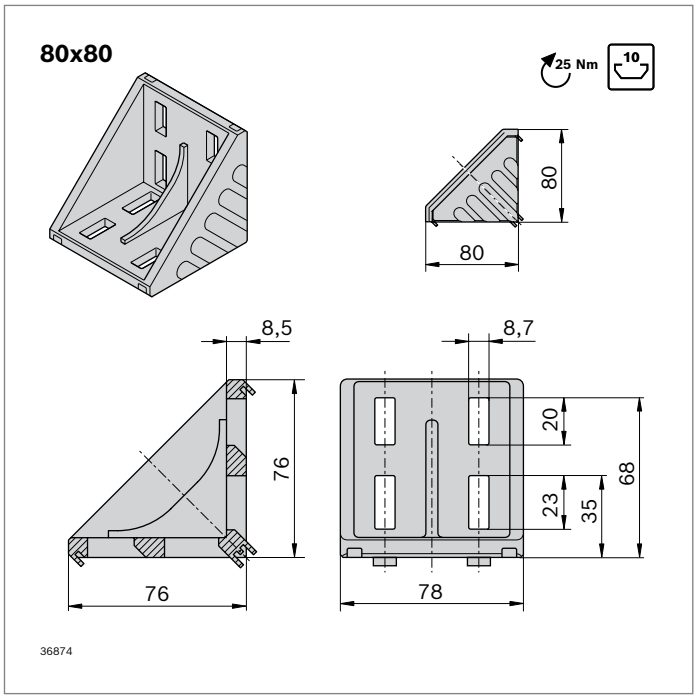




| 40x160 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| *designLINE* set | 10 / 10 | | 1 | **3 842 551 605** | 2x FS7 |
| Bracket (standard) | 10 | | 20 | **3 842 529 006** | |
| Cover cap, signal gray | | | 20 | **3 842 548 858** | |
| Cover cap, black | | | 20 | **3 842 548 859** | |

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)

| Type | Fmax | Mmax | Mmax |
|---|---|---|---|
| 40x160 | 9000 N | 250 Nm | 60 Nm |



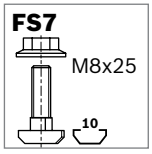


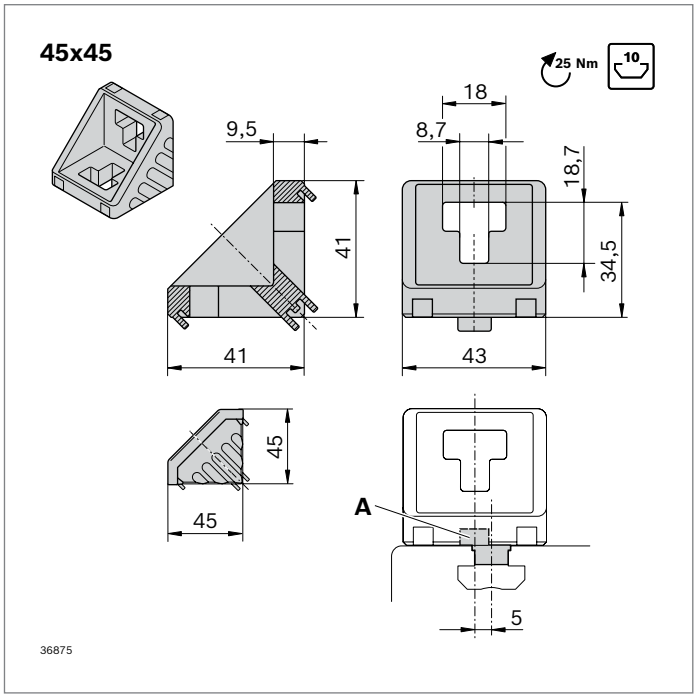

| 80x80 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | | 1 | **3 842 530 360** | 8xFS7 |
| *designLINE* set | 10 / 10 | | 1 | **3 842 551 612** | 8xFS7 |
| Bracket (standard) | 10 | | 20 | **3 842 530 231** | |
| Cover cap, signal gray | | | 20 | **3 842 548 860** | |
| 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 |



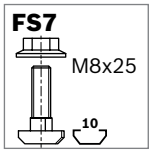



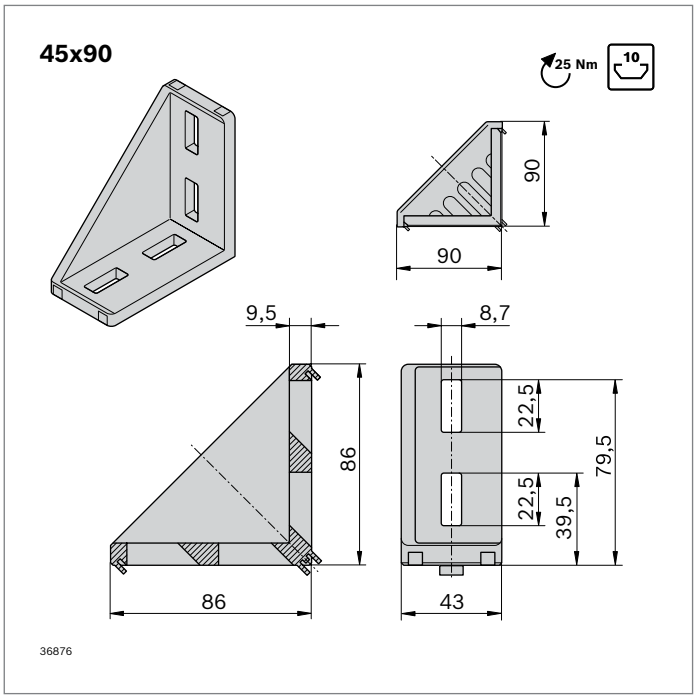

| 45x45 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | | 1 | **3 842 523 561** | 2xFS7 |
| *designLINE* set | 10 / 10 | | 1 | **3 842 551 606** | 2xFS7 |
| Bracket (standard) | 10 | | 100 | **3 842 523 558** | |
| Cover cap, signal gray | | | 100 | **3 842 548 862** | |
| 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 | – |

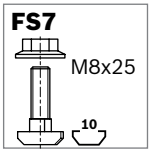


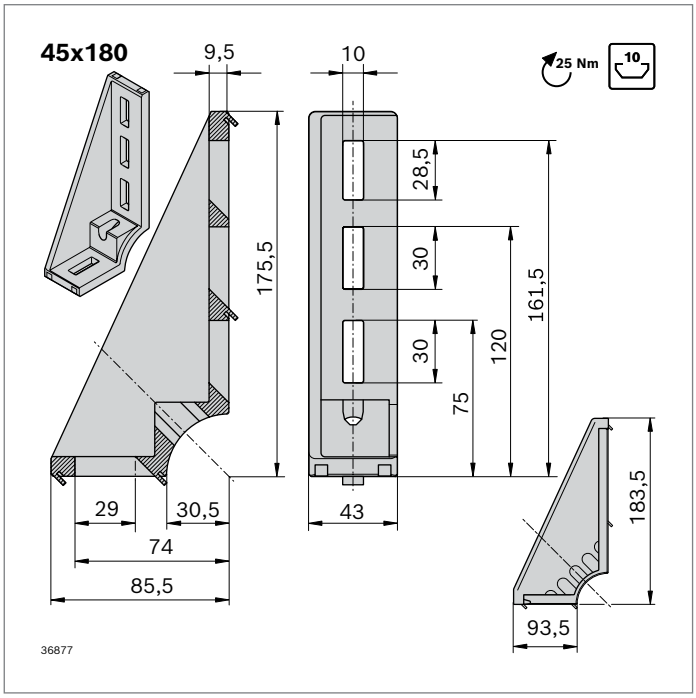



| 45x90 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | ESD | 1 | **3 842 523 570** | 4xFS7 |
| *designLINE* set | 10 / 10 | ESD | 1 | **3 842 551 607** | 4xFS7 |
| Bracket (standard) | 10 | ESD | 100 | **3 842 523 567** | |
| Cover cap, signal gray | | | 20 | **3 842 548 864** | |
| Cover cap, black | | ESD | 20 | **3 842 548 865** | |

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 | Fmax | Mmax | Mmax | Mmax |
|---|---|---|---|---|
| 45x90 | 6000 N | 180 Nm | 400 Nm | 60 Nm |

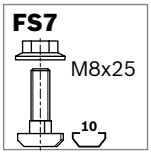


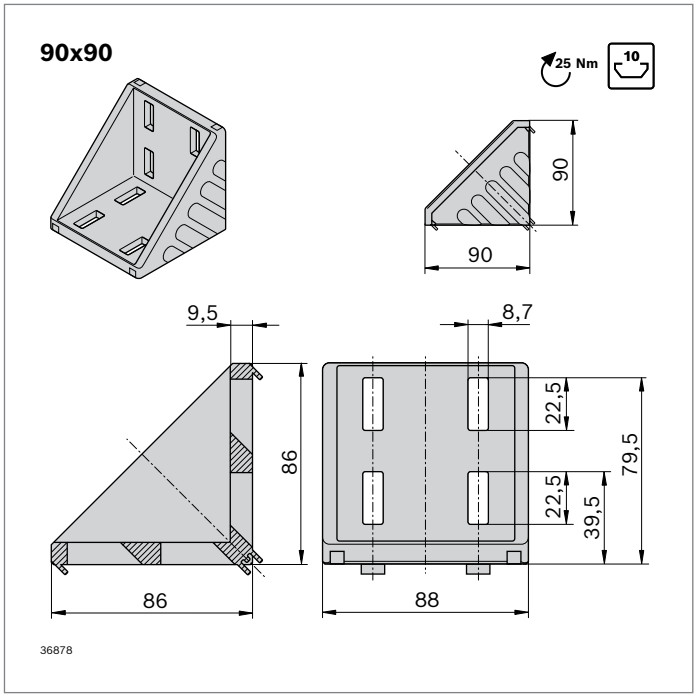

| 45x180 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| *designLINE* set | 10 / 10 | ESD | 1 | **3 842 551 608** | 2xFS7 |
| Bracket (standard) | 10 | ESD | 20 | **3 842 523 583** | |
| Cover cap, signal gray | | | 20 | **3 842 548 866** | |
| Cover cap, black | | ESD | 20 | **3 842 548 867** | |

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 | Fmax | Mmax | Mmax |
|---|---|---|---|
| 45x180 | 9000 N | 250 Nm | 65 Nm |



## 90x90

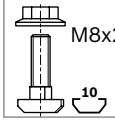



| 90x90 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | | 1 | **3 842 523 578** | 8xFS7 |
| *designLINE* set | 10 / 10 | | 1 | **3 842 551 613** | 8xFS7 |
| Bracket (standard) | 10 | | 20 | **3 842 523 575** | |
| Cover cap, signal gray | | | 20 | **3 842 548 868** | |
| Cover cap, black | | | 20 | **3 842 548 869** | |

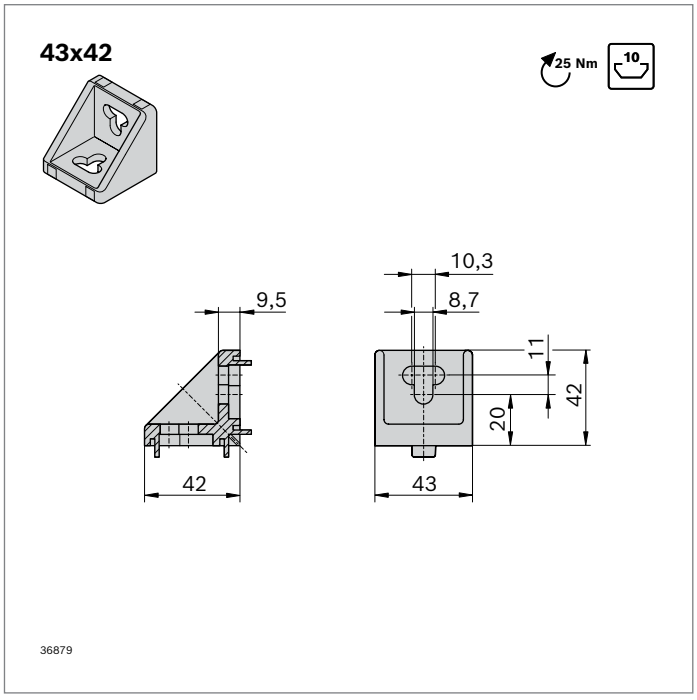
Material: Bracket Diecast aluminum
*designLINE* bracket: painted (RAL 9006)
Cover cap: PP
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)

| Type | Fmax | Mmax | Mmax | Mmax |
|---|---|---|---|---|
| 90x90 | 12000 N | 370 Nm | 800 Nm | 200 Nm |

**FS7**




## 43x42

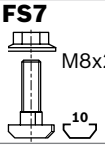


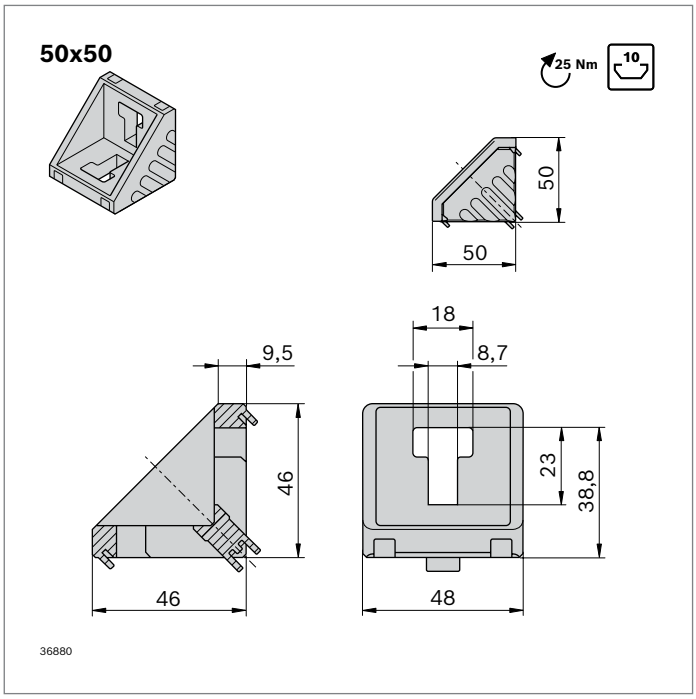

| 43x42 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | | 1 | **3 842 352 009** | 2xFS7 |
| Bracket (standard) | 10 | | 100 | **3 842 348 526** | |

Material: Bracket Diecast aluminum
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)

| Type | Fmax | Mmax | Mmax | Mmax |
|---|---|---|---|---|
| 43x42 | 2000 N | – | 160 Nm | – |

**FS7**

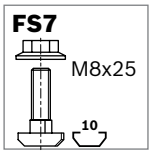


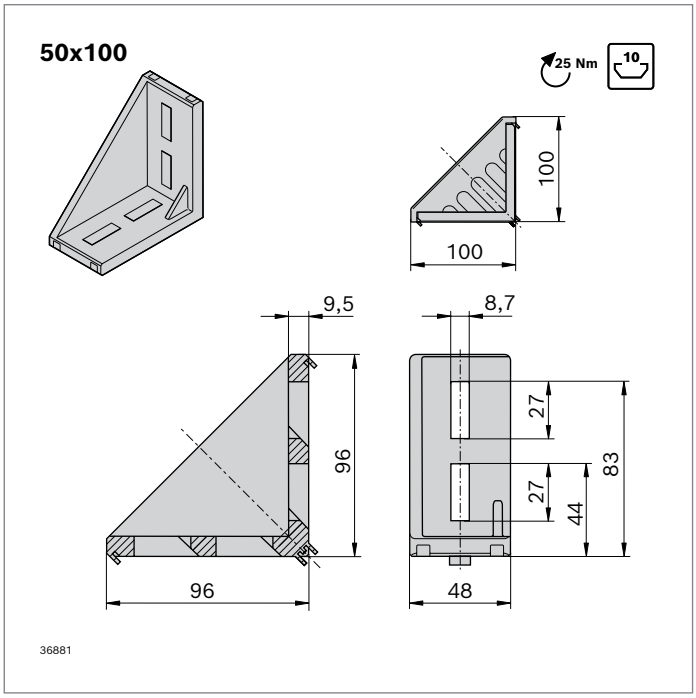



| 50x50 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | | 1 | **3 842 530 259** | 2xFS7 |
| Bracket (standard) | 10 | | 20 | **3 842 530 381** | |
| Cover cap, signal gray | | | 20 | **3 842 548 870** | |
| Cover cap, black | | | 20 | **3 842 548 871** | |

Material: Bracket Diecast aluminum
Cover cap: PP
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)

| Type | Fmax | Mmax | Mmax | Mmax |
|---|---|---|---|---|
| 50x50 | 4000 N | 125 Nm | 250 Nm | 38 Nm |

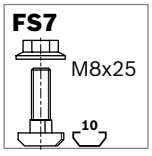


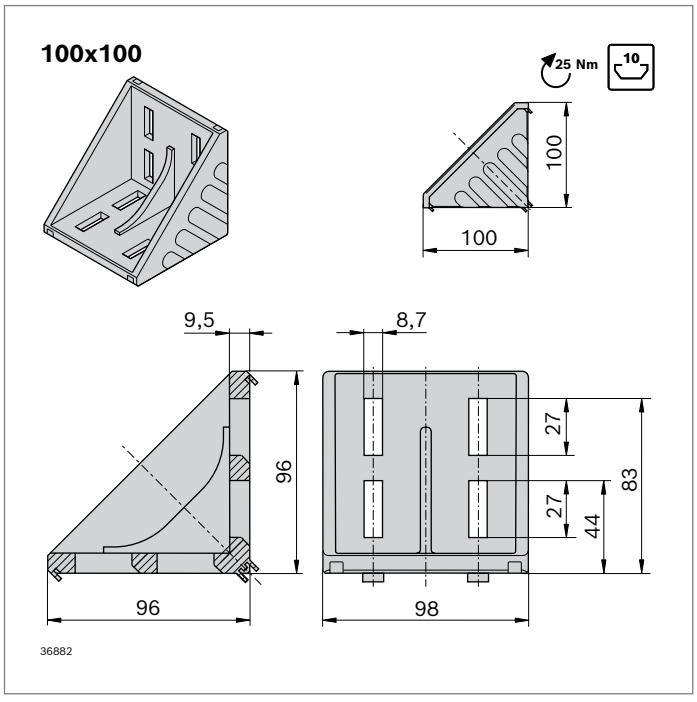




| 50x100 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | | 1 | **3 842 530 260** | 4xFS7 |
| Bracket (standard) | 10 | | 20 | **3 842 530 382** | |
| Cover cap, signal gray | | | 20 | **3 842 548 872** | |
| Cover cap, black | | | 20 | **3 842 548 873** | |

Material: Bracket Diecast aluminum
Cover cap: PP
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)

| Type | Fmax | Mmax | Mmax | Mmax |
|---|---|---|---|---|
| 50x100 | 7500 N | 300 Nm | 600 Nm | 73 Nm |



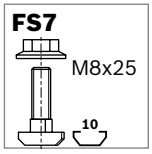


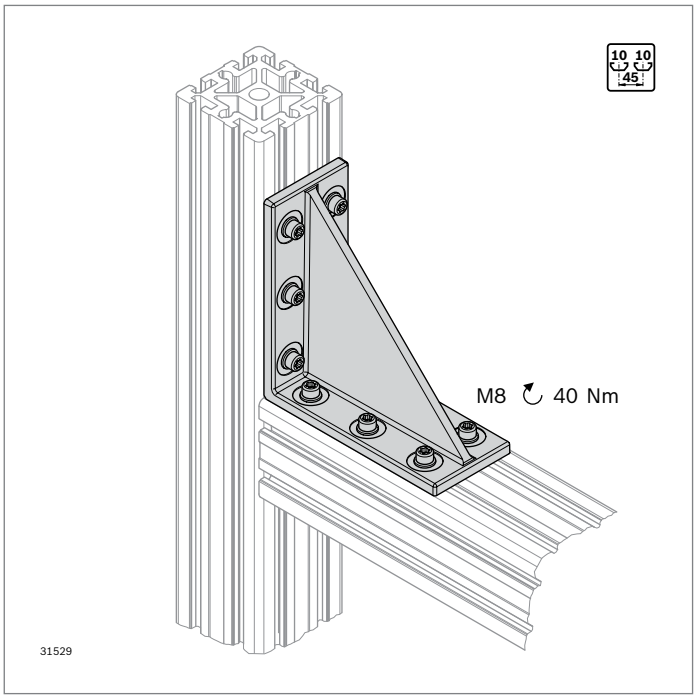

| 100x100 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | | 1 | **3 842 530 361** | 8xFS7 |
| Bracket (standard) | 10 | | 20 | **3 842 530 460** | |
| Cover cap, signal gray | | | 20 | **3 842 548 874** | |
| Cover cap, black | | | 20 | **3 842 548 875** | |

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

Scope of delivery: Set incl. fastening material (FS)

| Type | Fmax | Mmax | Mmax | Mmax |
|---|---|---|---|---|
| 100x100 | 15000 N | 550 Nm | 1100 Nm | 480 Nm |

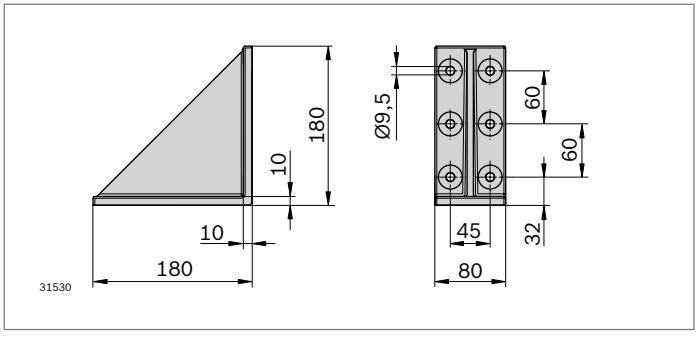





## Heavy-duty connector 180x180 dynamic load

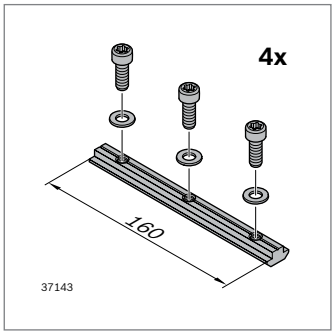
- Heavy-duty connector for reliable absorption of high forces
- Can be used for both static and dynamic forces
- Connection possible in any position
- Profile finishing: Not required
- Calculation program for static and dynamic forces included in MT*pro* planning software
- Focus profile: 90x90, 90x180, 90x360

Required accessories:
Mounting kit




| 180x180 | | Slot | ESD | No. |
|---|---|---|---|---|
| | | 10 | | **3 842 555 616** |
| Material: | Cast iron; zinc-plated | | | |
| Scope of delivery: | Bracket | | | |

| Type | $F_{max}$ | $M_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|---|
| 180x180 | 30000 N | 5600 Nm | 5600 Nm | 1400 Nm |

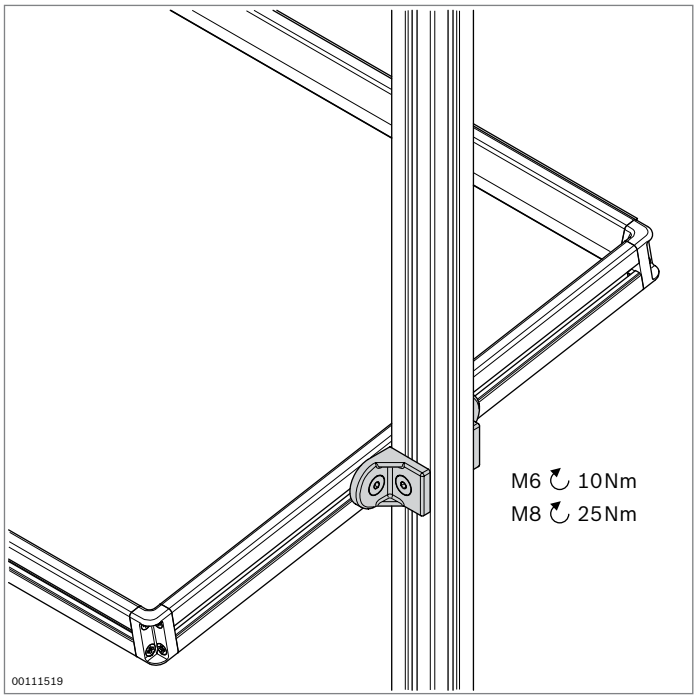



| Slot | $F_{max}$ |
|---|---|
| 10 (M8) | 6000 ... 18000 N |

### Mounting kit

- For connecting a heavy-duty angle to a profile
- Set consists of 4 sliding blocks and 12 screws with washers

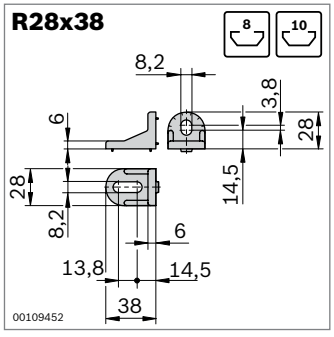
| Mounting kit | | Slot | M | ESD | | No. |
|---|---|---|---|---|---|---|
| | | 10 | 8 | | Set | **3 842 548 955** |
| Material: | Screws: Steel; zinc-plated<br>Sliding block: Steel; zinc-plated | | | | | |
| Scope of delivery: | 4 x sliding blocks, 12 x washers,<br>12 x screws M8 10.9 microencapsulated | | | | | |




## Bracket R

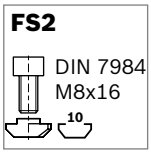
*designLINE*

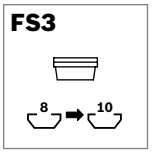
- For connecting profiles at any angle
- No interfering edges thanks to rounded bracket
- Brackets with centering lugs for rapid, precise assembly with protection against turning
- Centering lugs can be easily broken off for assembly on plates or at right angles to the slot
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Profile finishing: Not required





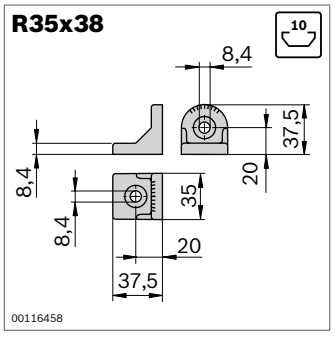


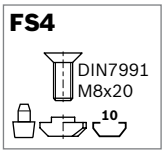



| R28x38 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 8 / 10 | | 1 | **3 842 515 547** | FS1, FS2, 2xFS3 |
| | 10 / 10 | | 1 | **3 842 521 580** | 2xFS2, 4xFS3 |
| *designLINE* set | 8 / 10 | | 1 | **3 842 538 703** | FS1, FS2, 2xFS3 |
| | 10 / 10 | | 1 | **3 842 538 704** | 2xFS2, 4xFS3 |
| Bracket (standard) | 8 / 10 | | 100 | **3 842 515 473** | |

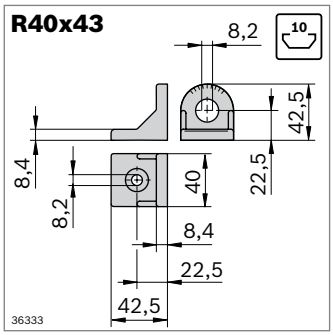
Material: Bracket Diecast zinc
*designLINE* bracket: painted (RAL 9006)
Intermediate element: PA; black
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)

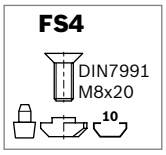



| R35x38 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | | 1 | **3 842 532 274** | 2xFS4 |
| *designLINE* set | 10 / 10 | | 1 | **3 842 538 705** | 2xFS4 |
| Bracket (standard) | 10 | | 100 | **3 842 529 020** | |

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)

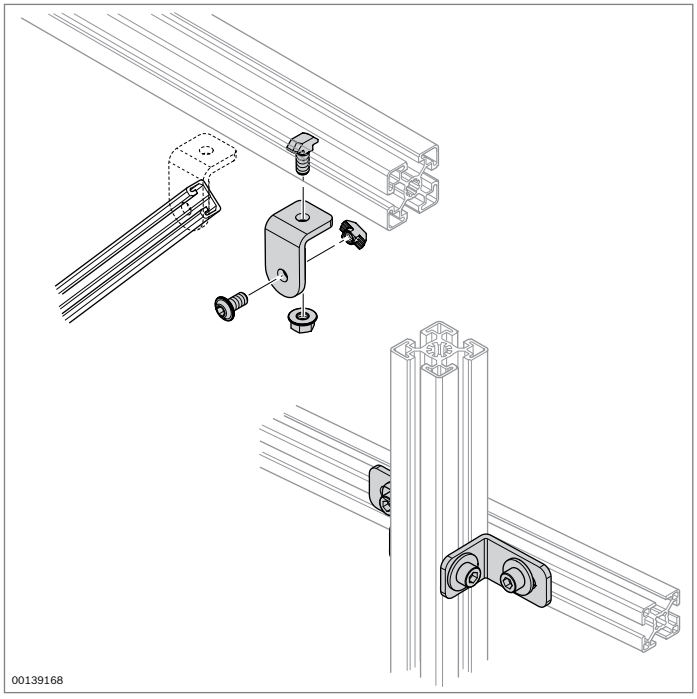



| R40x43 | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| Set (standard) | 10 / 10 | | 1 | **3 842 518 424** | 2xFS4 |
| *designLINE* set | 10 / 10 | | 1 | **3 842 538 706** | 2xFS4 |
| Bracket (standard) | 10 | | 100 | **3 842 504 760** | |

Material: Bracket Diecast zinc
*designLINE* bracket: painted (RAL 9006)
Centering bolts: PA6; black
Fastening material: Steel; zinc-plated

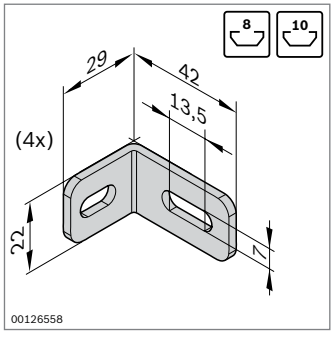
Scope of delivery: Set incl. fastening material (FS)

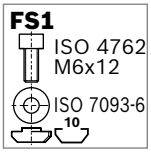


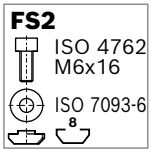

## Steel bracket




- Steel bracket without centering lugs for fastening at any angle
- Profile finishing: Not required

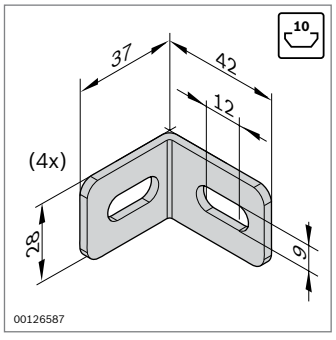


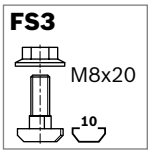




| Bracket set | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 8 / 10 | | 4 | **3 842 537 862** | 4xFS1, 4xFS2 |

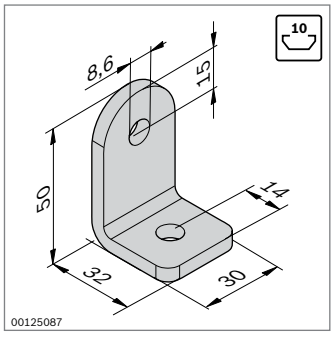
| | |
|---|---|
| Material: | Steel; zinc-plated<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Set incl. fastening material (FS) |

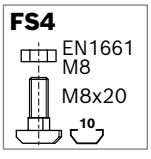


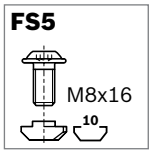




| Bracket set | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 10 / 10 | | 4 | **3 842 537 861** | 8xFS3 |

| | |
|---|---|
| Material: | Steel; zinc-plated<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Set incl. fastening material (FS) |

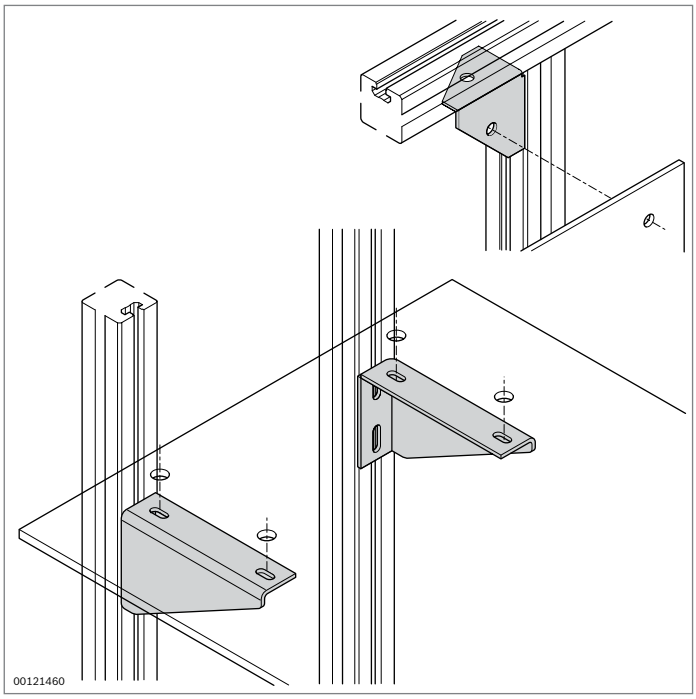



| Bracket set | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 10 / 10 | | 20 | **3 842 536 729** | FS4, FS5 |

| | |
|---|---|
| Material: | Steel; zinc-plated<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Set incl. fastening material (FS) |



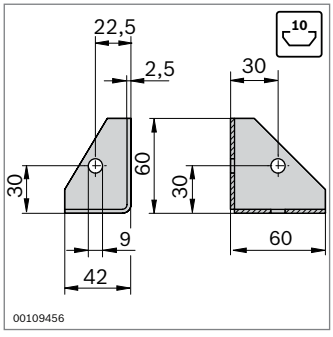

# Metal bracket
# Supporting bracket

## 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



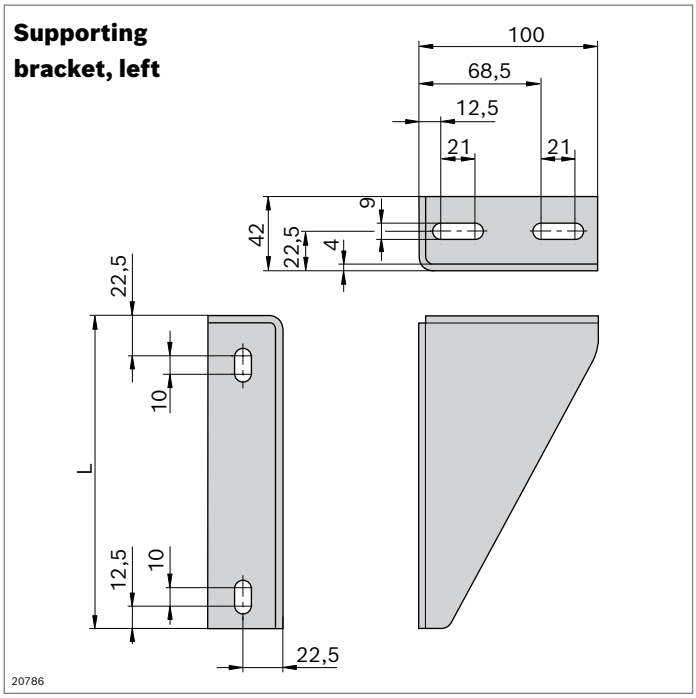

| Metal bracket | ESD | | No. |
|---|---|---|---|
| | ESD | 20 | **3 842 146 813** |

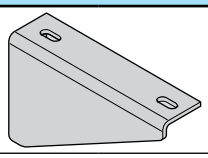
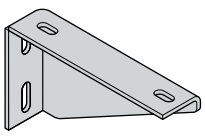
Material: Sheet steel; zinc-plated

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, left**

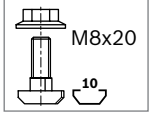


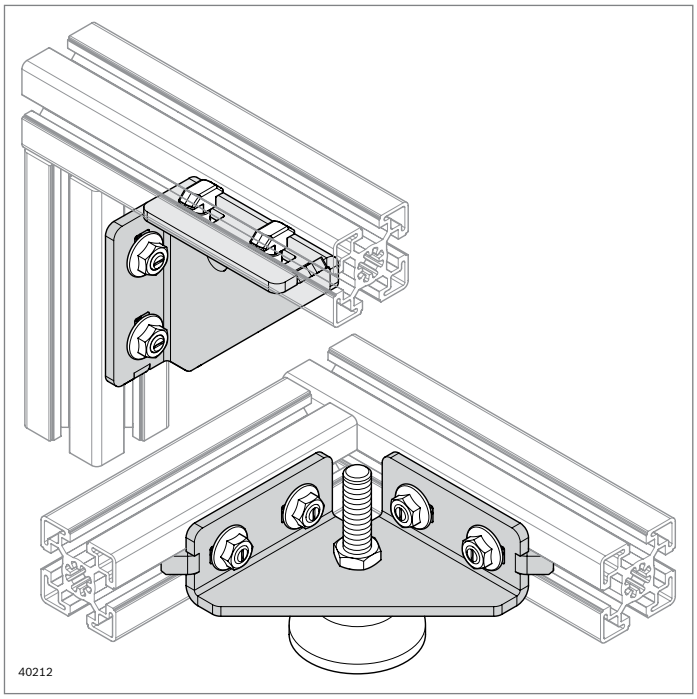

| Supporting bracket | L (mm) | ESD | No. | FS |
|---|---|---|---|---|
| **left**  | 255 | ESD | **3 842 536 119** | 2xFS1 |
| | 335 | ESD | **3 842 536 121** | 2xFS1 |
| | 415 | ESD | **3 842 536 123** | 2xFS1 |
| | 495 | ESD | **3 842 536 125** | 2xFS1 |
| **right**  | 255 | ESD | **3 842 536 120** | 2xFS1 |
| | 335 | ESD | **3 842 536 122** | 2xFS1 |
| | 415 | ESD | **3 842 536 124** | 2xFS1 |
| | 495 | ESD | **3 842 536 126** | 2xFS1 |

Material: Sheet steel; powder-coated, RAL 7037
Fastening material: Steel; zinc-plated

Scope of delivery: Incl. fastening material (FS)

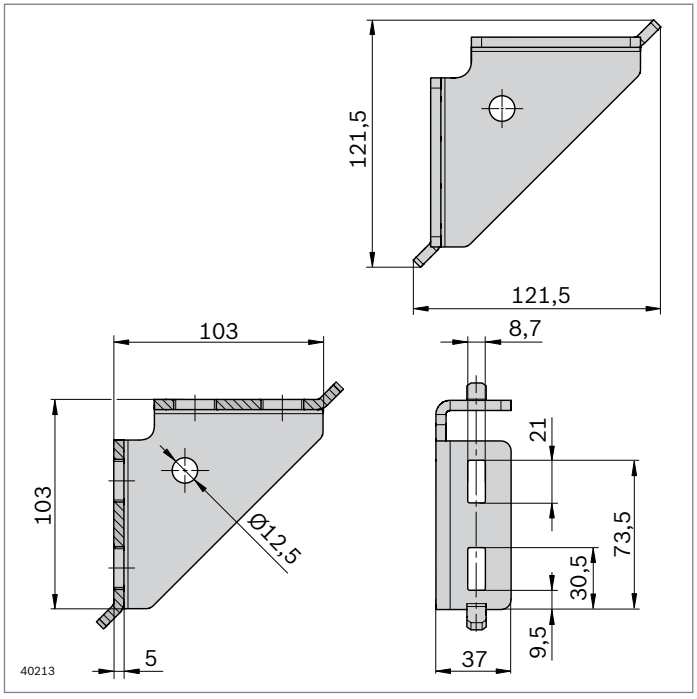
**FS1**






## 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

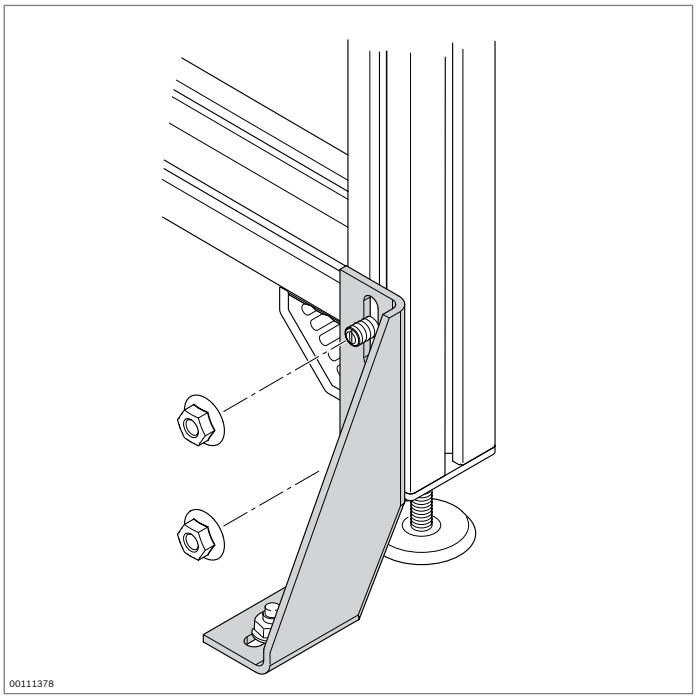



| Metal bracket 103x103x37 | ESD | No. | FS |
|---|---|---|---|
| | ESD | **3 842 564 154** | 4xFS1, 1xFS2 |

Material: Sheet steel; zinc-plated
Scope of delivery: Incl. Fastening material

**FS1**
M8x20

**FS2**
ISO4032-M12



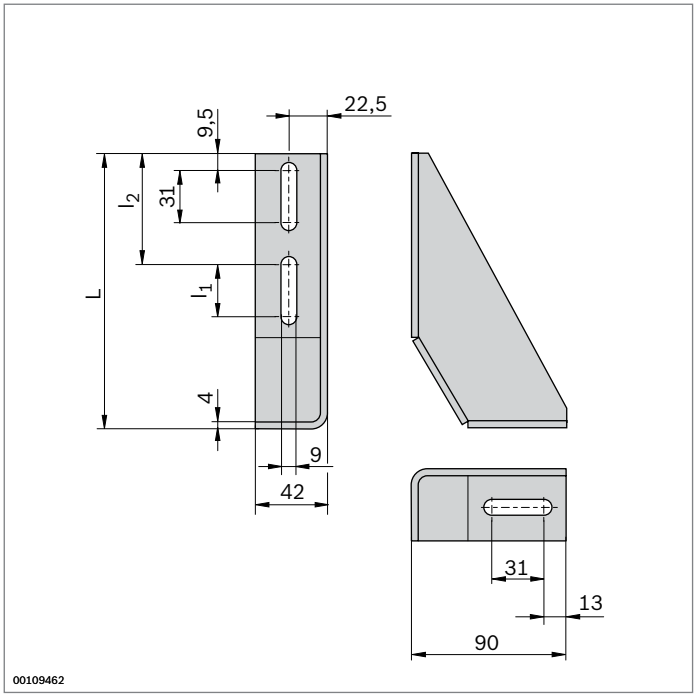

## Foundation bracket




- 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

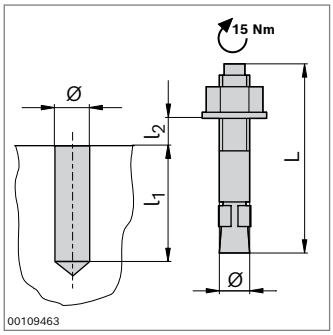
Required accessories:

- 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



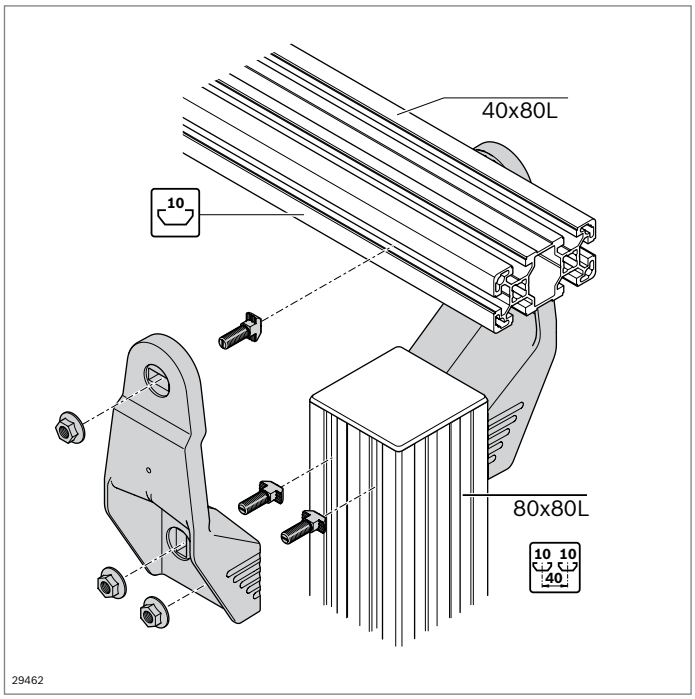

| Foundation bracket | L (mm) | $l_1$ (mm) | $l_2$ (mm) | | No. |
|---|---|---|---|---|---|
| | 160 | 31 | 64.5 | 20 | **3 842 146 815** |
| | 210 | 91 | 54.5 | 20 | **3 842 146 848** |

Material: Sheet steel; zinc-plated




| Floor dowel | ø | L (mm) | $l_1$ (mm) | $l_{2\,max}$ (mm) | | No. |
|---|---|---|---|---|---|---|
| | 8 | 80 | 65 | 15 | 100 | **3 842 526 560** |

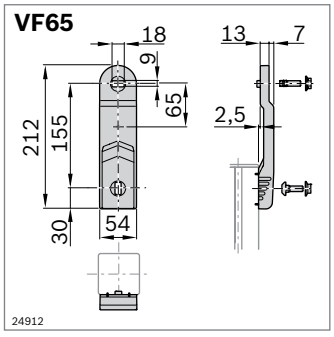
Material: Steel; zinc-plated

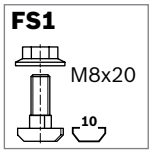



## Holder AL

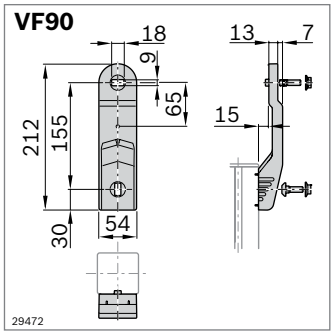
10

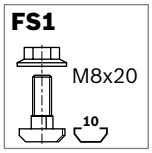
- For connecting profiles at right-angles to each other and with defined spacing, e.g. for floor supports made of 80x80L or 60x60 profiles
- Longitudinal connection possible in all profiles with 10 mm slot
- Transverse connection possible with 40 mm slot spacing
- Profile finishing: Not required



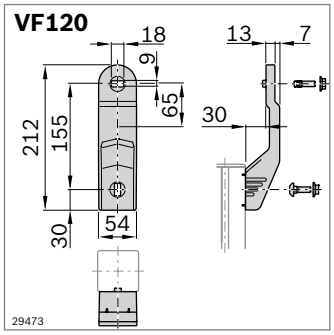



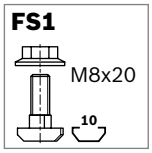

| Holder | | No. | FS |
|---|---|---|---|
| **VF*plus* 65** | Set | **3 842 546 625** | 4xFS1 |
| Material: | Holder: Diecast aluminum; powder-coated (RAL 9006)<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | 2 x holder, fastening material (FS) | | |



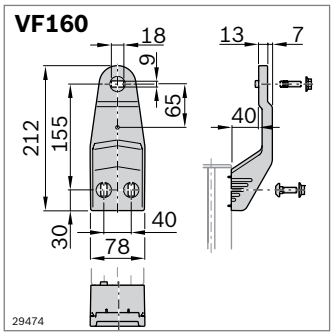



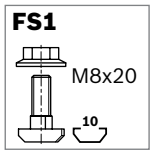

| Holder | | No. | FS |
|---|---|---|---|
| **VF*plus* 90** | Set | **3 842 546 626** | 4xFS1 |
| Material: | Holder: Diecast aluminum; powder-coated (RAL 9006)<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | 2 x holder, fastening material (FS) | | |



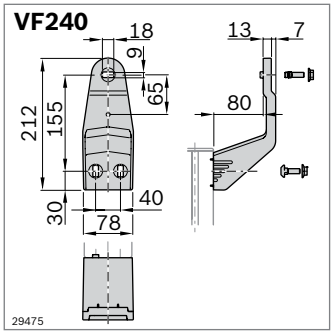



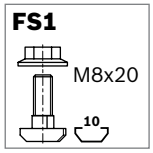

| Holder | | No. | FS |
|---|---|---|---|
| **VF*plus* 120** | Set | **3 842 546 627** | 4xFS1 |
| Material: | Holder: Diecast aluminum; powder-coated (RAL 9006)<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | 2 x holder, fastening material (FS) | | |



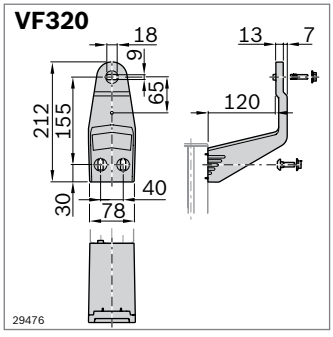



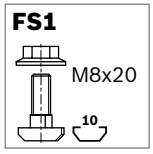

| Holder | | No. | FS |
|---|---|---|---|
| **VF*plus* 160** | Set | **3 842 546 628** | 6xFS1 |
| Material: | Holder: Diecast aluminum; powder-coated (RAL 9006)<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | 2 x holder, fastening material (FS) | | |



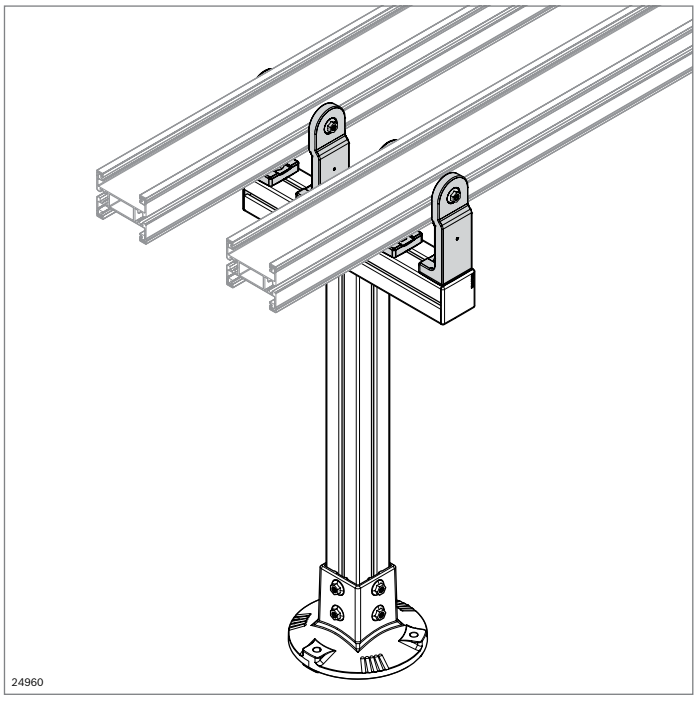




| Holder | | No. | FS |
|---|---|---|---|
| **VF*plus* 240** | Set | **3 842 546 629** | 6xFS1 |
| Material: | Holder: Diecast aluminum; powder-coated (RAL 9006)<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | 2 x holder, fastening material (FS) | | |



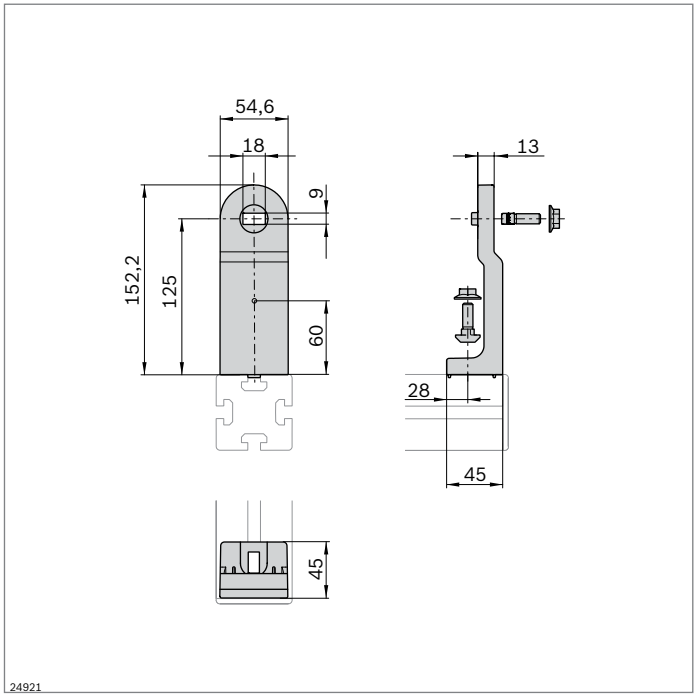

| Holder | | No. | FS |
|---|---|---|---|
| **VF*plus* 320** | Set | **3 842 546 630** | 6xFS1 |
| Material: | Holder: Diecast aluminum; powder-coated (RAL 9006)<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | 2 x holder, fastening material (FS) | | |



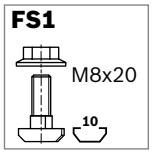

## Supporting bracket AL

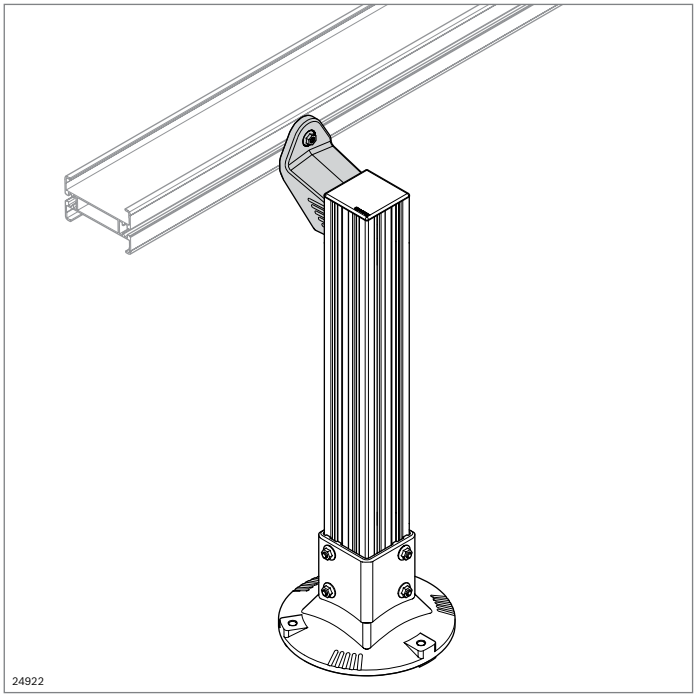



- Supporting bracket for connecting two profiles with defined spacing (approx. 2–3 m)
- Profile finishing: Not required
- Centering lugs make centering the supporting brackets in the slot easy
- If the centering lugs are removed, the supporting bracket can also be used for upward and downward sloping 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 VF*plus* AL | | No. | FS |
|---|---|---|---|
| | Set | **3 842 546 632** | 4xFS1 |
| Material: | Holder: Diecast aluminum, silver<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | Incl. 2x holder; fastening material (FS) | | |

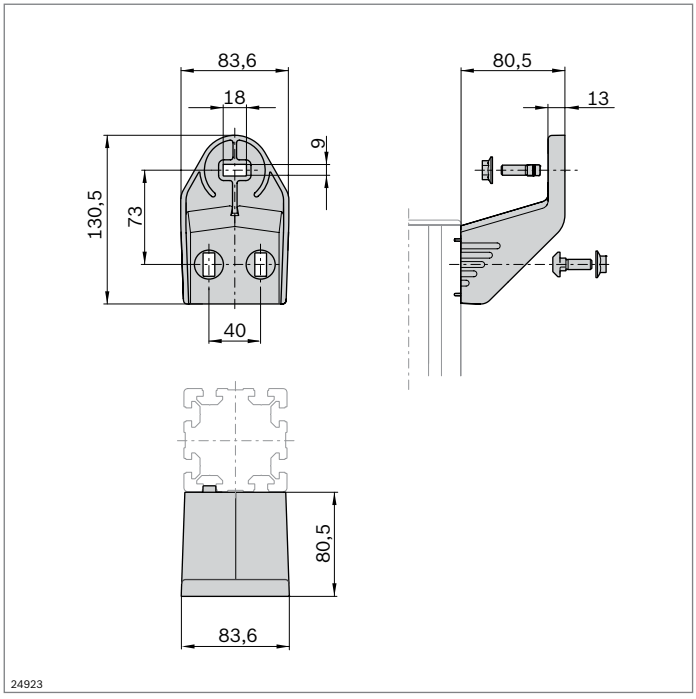





## Supporting bracket AL, lateral

10

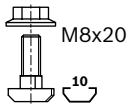
- Supporting bracket for connecting two profiles with defined spacing (approx. 2–3 m)
- Profile finishing: Not required
- Centering lugs make centering the supporting brackets in the slot easy
- If the centering lugs are removed, the supporting bracket can also be used for upward and downward sloping sections (up to approx. 45° depending on the return chain)
- Designed for attachment to a vertical 80x80 strut profile

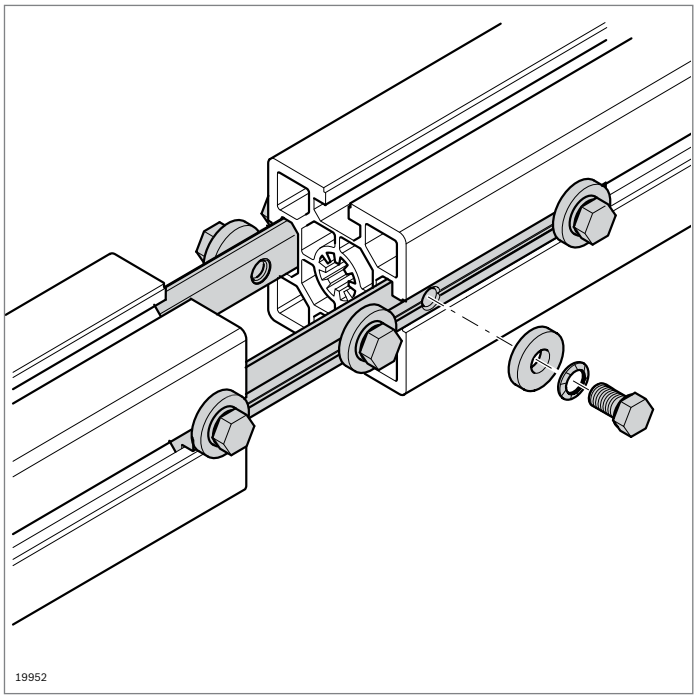



| Supporting bracket VF*plus* lateral AL | | No. | FS |
|---|---|---|---|
| | Set | **3 842 547 461** | 3xFS1 |

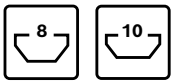
| | |
|---|---|
| Material: | Holder: Diecast aluminum; powder-coated (RAL 9006)<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |

**FS1**

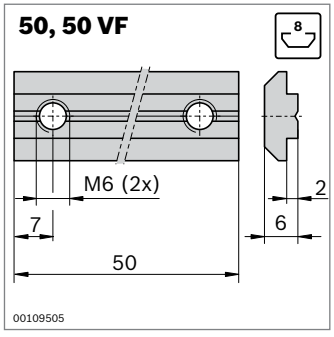





## Profile connector




- Profile connector for the end-face connection of any profiles
- For an especially strong connection: One profile connector per slot
- Profile finishing: Not required



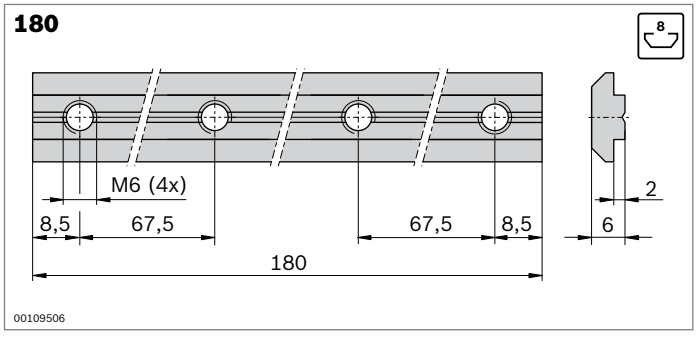

| Profile connector | (Nm) | Slot | | No. | FS |
|---|---|---|---|---|---|
| **50 VF** | 10 | 8 | 10 | **3 842 536 787** | 2xFS2 |
| **50** | 8.5 | 8 | 1 | **3 842 518 427** | 2xFS1 |

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

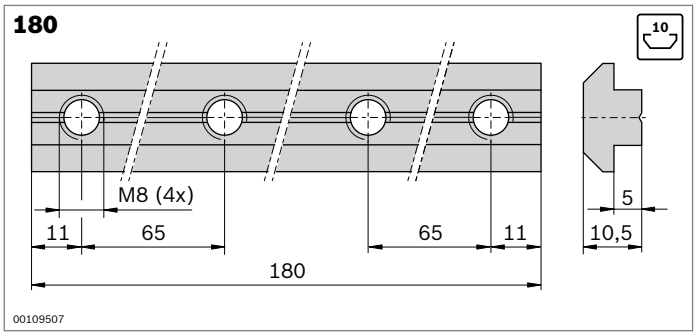


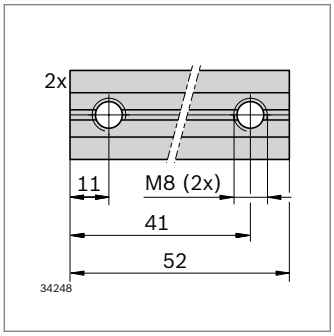

| Profile connector | (Nm) | Slot | No. | FS |
|---|---|---|---|---|
| **180** | 10 | 8 | **3 842 521 216** | 4xFS3 |

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)

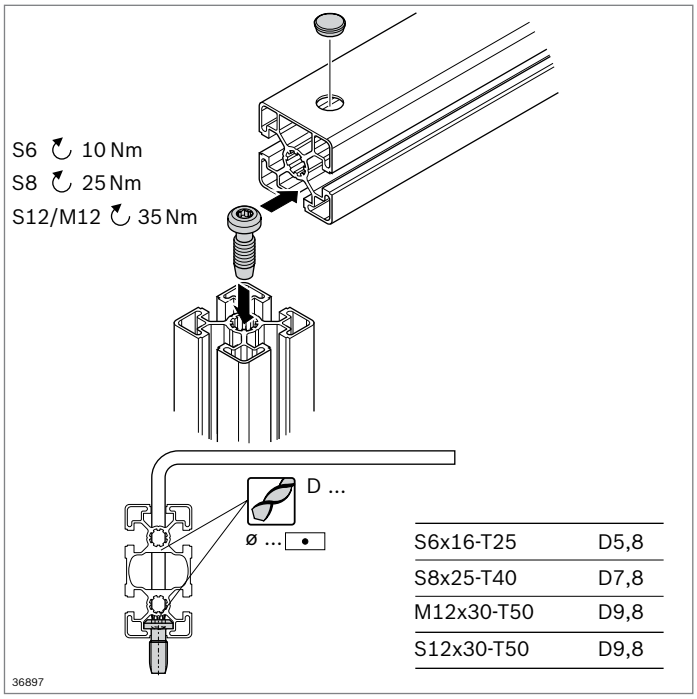
**FS4**
ISO 4017 M8x14
8-Fst
DIN 7394 8,4

| 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

**FS5**
M8x12




| | |
|---|---|
| S6x16-T25 | D5,8 |
| S8x25-T40 | D7,8 |
| M12x30-T50 | D9,8 |
| S12x30-T50 | D9,8 |

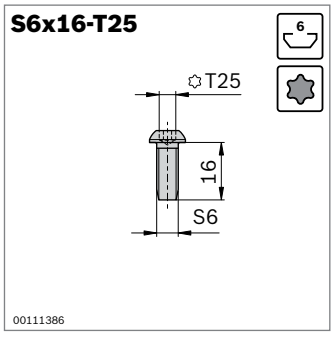
# Central bolt, anti-torsion element, cover cap

**Central bolt**

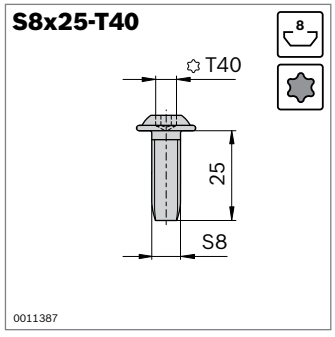
- Best-value connection element
- Self-tapping screw, can be mounted without profile finishing
- Profile finishing:
  - Thread cutting for M12x30 screw
  - Through-hole for screwdriver/offset screwdriver

Tools:
Offset screwdriver (p. 14-6)

**S6x16-T25**



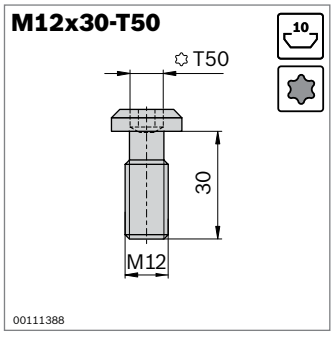

**S8x25-T40**



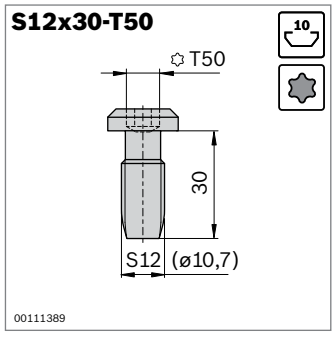

| Central bolt | Slot | ESD | | No. |
|---|---|---|---|---|
| **S6x16-T25** (self-tapping) | 6 | | 100 | **3 842 528 593** |
| **S8x25-T40** (self-tapping) | 8 | | 100 | **3 842 527 174** |

Material: Steel; zinc-plated

**M12x30-T50**



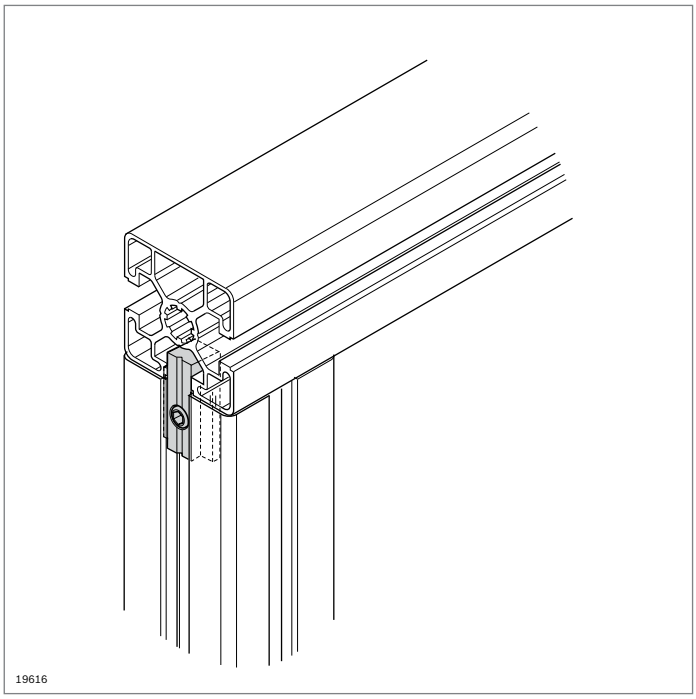

**S12x30-T50**




| Central bolt | Slot | ESD | | No. |
|---|---|---|---|---|
| **M12x30-T50** | 10 | | 100 | **3 842 530 235** |
| **S12x30-T50** (self-tapping) | 10 | | 100 | **3 842 530 236** |

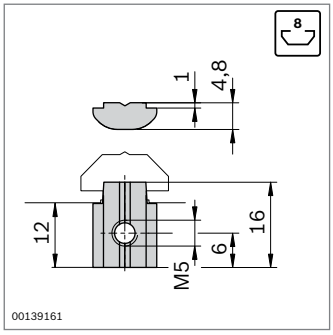
Material: Steel; zinc-plated

| Size | $F_{max}$ | $M_{max}$ |
|---|---|---|
| S6 | 500 N | 8 Nm |
| S8 | 800 N | 43 Nm |
| S12 | 1300 N | 80 Nm |
| M12 | 3000 N | 80 Nm |




## Anti-torsion element

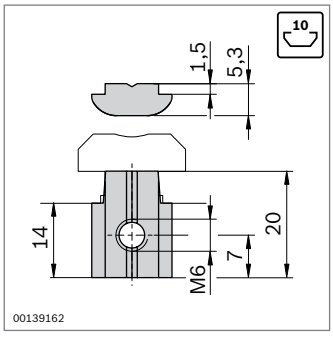
- Provides torsion resistance for profile connections with central bolts or quick connectors
- Subsequent installation in the connection possible




**FS1**

DIN 916
M5x8

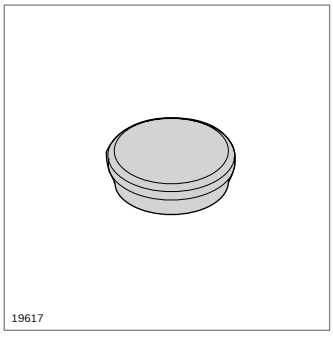
| Anti-torsion element | Slot | | No. | FS |
|---|---|---|---|---|
| | 8 | 10 | **3 842 530 325** | FS1 |
| Material: | Steel; zinc-plated<br>Fastening material: Steel; zinc-plated | | | |




**FS2**

ISO 4029
M6x12

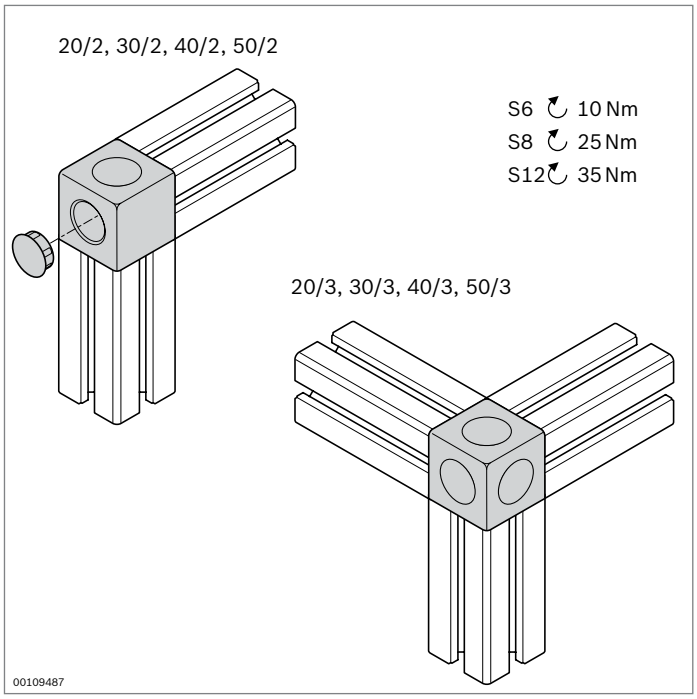
| Anti-torsion element | Slot | | No. | FS |
|---|---|---|---|---|
| | 10 | 10 | **3 842 530 326** | FS2 |
| Material: | Steel; zinc-plated<br>Fastening material: Steel; zinc-plated | | | |



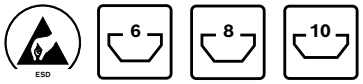

## Cover cap

- For sealing through-holes in closed profiles

| Cover cap | D (mm) | | No. |
|---|---|---|---|
| | 5.8 | 100 | **3 842 551 032** |
| | 7.8 | 100 | **3 842 551 034** |
| | 9.8 | 100 | **3 842 551 036** |
| Material: | TPE; signal gray RAL 7004 | | |



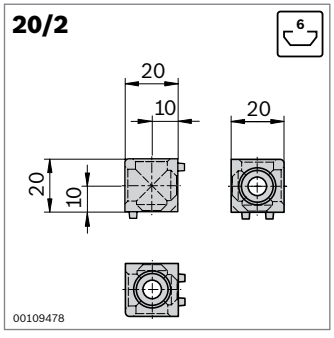

## Cubic connector




*designLINE*

- 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 |

**FS1**

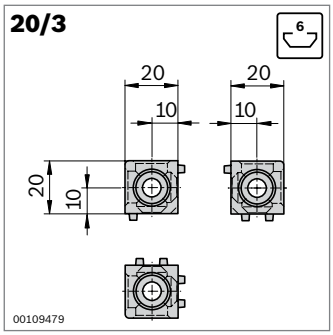



| Cubic connector 20/2 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Set (standard), signal gray | | 6 | * | 1 | **3 842 549 858** | 2xFS1 |
| *designLINE* set, signal gray | | 6 | * | 1 | **3 842 549 859** | 2xFS1 |
| Cubic connector | | 6 | | 20 | **3 842 523 875** | |
| Cover cap D12 | signal gray (PP) | | | 100 | **3 842 548 700** | |
| | black (PP) | | | 100 | **3 842 548 704** | |
| Countersunk screw S6x16 | | 6 | | 100 | **3 842 517 132** | |

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 | $M_{max}$ 2 / $M_{max}$ 2 |
|---|---|
| 20/3 | 23 Nm |

**FS1**

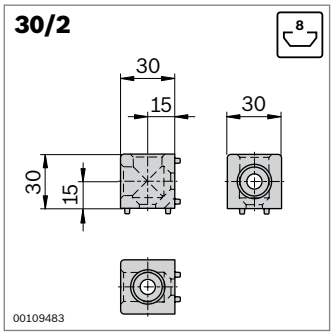



| Cubic connector 20/3 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Set (standard), signal gray | | 6 | ESD* | 1 | **3 842 549 860** | 3xFS1 |
| *designLINE* set, signal gray | | 6 | ESD* | 1 | **3 842 549 861** | 3xFS1 |
| Cubic connector | | 6 | ESD | 20 | **3 842 523 872** | |
| Cover cap D12 | signal gray (PP) | | | 100 | **3 842 548 700** | |
| | black (PP) | | ESD | 100 | **3 842 548 704** | |
| Countersunk screw S6x16 | | 6 | ESD | 100 | **3 842 517 132** | |

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 | $M_{max}$ |
|---|---|
| 30/2 | 80 Nm |

**FS2**

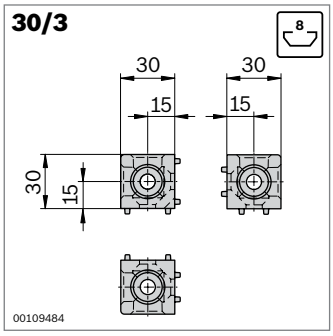



| Cubic connector 30/2 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Set (standard), signal gray | | 8 | ESD* | 1 | **3 842 549 862** | 2xFS2 |
| *designLINE* set, signal gray | | 8 | ESD* | 1 | **3 842 549 863** | 2xFS2 |
| Cubic connector | | 8 | ESD | 20 | **3 842 523 876** | |
| Cover cap D18 | signal gray (PP) | | | 100 | **3 842 548 701** | |
| | black (PP) | | ESD | 100 | **3 842 548 705** | |
| Countersunk screw S8x25 | | 8 | ESD | 100 | **3 842 517 543** | |

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 | $M_{max}$ 2 / $M_{max}$ 2 |
|---|---|
| 30/3 | 85 Nm |

**FS2**



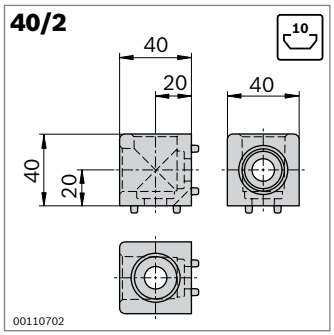

| Cubic connector 30/3 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Set (standard), signal gray | | 8 | ESD* | 1 | **3 842 549 864** | 3xFS2 |
| *designLINE* set, signal gray | | 8 | ESD* | 1 | **3 842 549 865** | 3xFS2 |
| Cubic connector | | 8 | ESD | 20 | **3 842 523 873** | |
| Cover cap D18 | signal gray (PP) | | | 100 | **3 842 548 701** | |
| | black (PP) | | ESD | 100 | **3 842 548 705** | |
| Countersunk screw S8x25 | | 8 | ESD | 100 | **3 842 517 543** | |

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.

**40/2**




| Type | $M_{max}$ |
|---|---|
| 40/2 | 60 Nm |

**FS3**



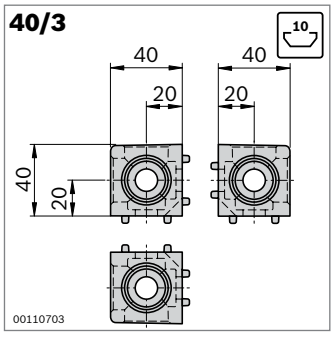

| Cubic connector 40/2 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Set (standard), signal gray | | 10 | ESD* | 1 | **3 842 549 866** | 2xFS3 |
| *designLINE* set, signal gray | | 10 | ESD* | 1 | **3 842 549 867** | 2xFS3 |
| Cubic connector | | 10 | ESD | 20 | **3 842 529 010** | |
| Cover cap D24 | signal gray (PP) | | | 100 | **3 842 548 702** | |
| | black (PP) | | ESD | 100 | **3 842 548 706** | |
| Screw S12x30 | | 10 | ESD | 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.

**40/3**




| Type | $\frac{M_{max}}{2}$ $\frac{M_{max}}{2}$ |
|---|---|
| 40/3 | 70 Nm |

**FS3**



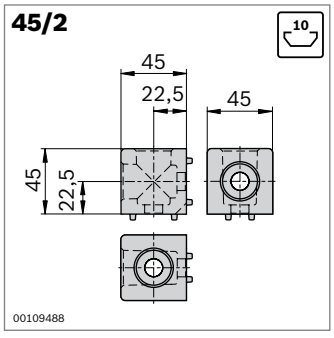

| Cubic connector 40/3 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Set (standard), signal gray | | 10 | ESD* | 1 | **3 842 549 868** | 3xFS3 |
| *designLINE* set, signal gray | | 10 | ESD* | 1 | **3 842 549 869** | 3xFS3 |
| Cubic connector | | 10 | ESD | 20 | **3 842 529 011** | |
| Cover cap D24 | signal gray (PP) | | | 100 | **3 842 548 702** | |
| | black (PP) | | ESD | 100 | **3 842 548 706** | |
| Screw S12x30 | | 10 | ESD | 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

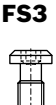
* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.

**45/2**




| Type | | $M_{max}$ |
|---|---|---|
| 45/2 | 45x45L | 150 Nm |
| | 45x45 | 200 Nm |

**FS3**

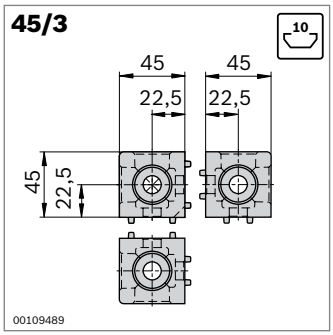



| Cubic connector 45/2 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Set (standard), signal gray | | 10 | ESD* | 1 | **3 842 549 870** | 2xFS3 |
| *designLINE* set, signal gray | | 10 | ESD* | 1 | **3 842 549 871** | 2xFS3 |
| Cubic connector | | 10 | ESD | 20 | **3 842 523 877** | |
| Cover cap D24 | signal gray (PP) | | | 100 | **3 842 548 702** | |
| | black (PP) | | ESD | 100 | **3 842 548 706** | |
| Screw S12x30 | | 10 | ESD | 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 | | $M_{max}$ / 2 + $M_{max}$ / 2 |
|---|---|---|
| 45/3 | 45x45L | 170 Nm |
| | 45x45 | 240 Nm |

**FS3**

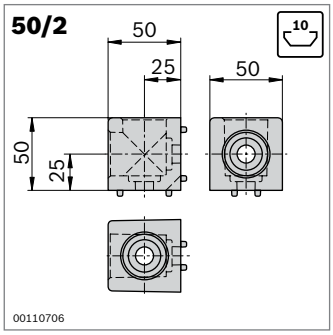



| Cubic connector 45/3 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Set (standard), signal gray | | 10 | ESD* | 1 | **3 842 549 872** | 3xFS3 |
| *designLINE* set, signal gray | | 10 | ESD* | 1 | **3 842 549 873** | 3xFS3 |
| Cubic connector | | 10 | ESD | 20 | **3 842 523 874** | |
| Cover cap D24 | signal gray (PP) | | | 100 | **3 842 548 702** | |
| | black (PP) | | ESD | 100 | **3 842 548 706** | |
| Screw S12x30 | | 10 | ESD | 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 | $M_{max}$ |
|---|---|
| 50/2 | 120 Nm |

**FS3**

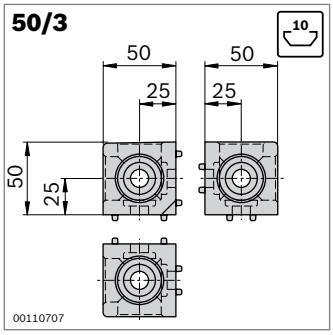



| Cubic connector 50/2 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Set (standard), signal gray | | 10 | ESD* | 1 | **3 842 549 874** | 2xFS3 |
| Cubic connector | | 10 | ESD | 20 | **3 842 529 012** | |
| Cover cap D30 | signal gray (PP) | | | 100 | **3 842 548 703** | |
| | black (PP) | | ESD | 100 | **3 842 548 707** | |
| Screw S12x30 | | 10 | ESD | 100 | **3 842 530 236** | |

Material: Cubic connector: Diecast aluminum
Fastening material: Steel; zinc-plated

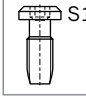
Scope of delivery: Set incl. fastening material (FS), cover caps

* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.




| Type | $\frac{M_{max}}{2}$ + $\frac{M_{max}}{2}$ |
|---|---|
| 50/3 | 140 Nm |

**FS3**

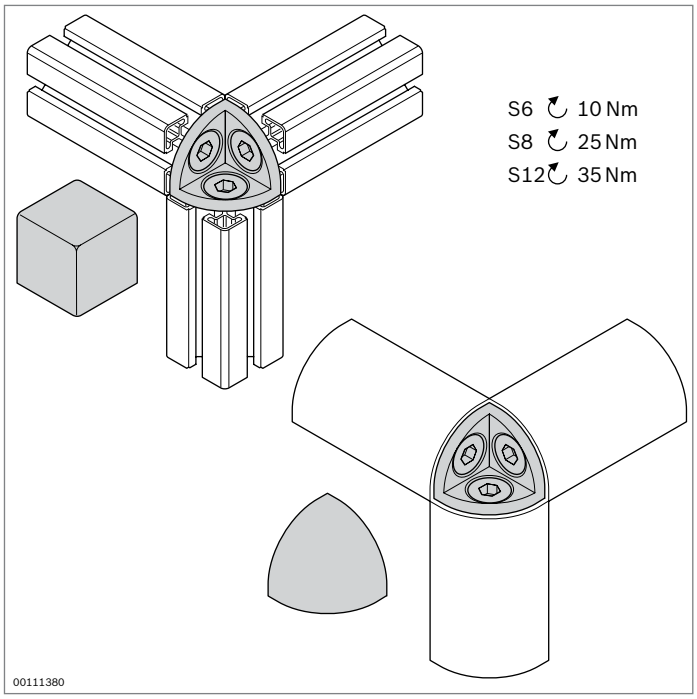



| Cubic connector 50/3 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Set (standard), signal gray | | 10 | ESD* | 1 | **3 842 549 876** | 3xFS3 |
| Cubic connector | | 10 | ESD | 20 | **3 842 529 013** | |
| Cover cap D30 | signal gray (PP) | | | 100 | **3 842 548 703** | |
| | black (PP) | | ESD | 100 | **3 842 548 707** | |
| Screw S12x30 | | 10 | ESD | 100 | **3 842 530 236** | |

Material: Cubic connector: Diecast aluminum
Fastening material: Steel; zinc-plated

Scope of delivery: Set incl. fastening material (FS), cover caps

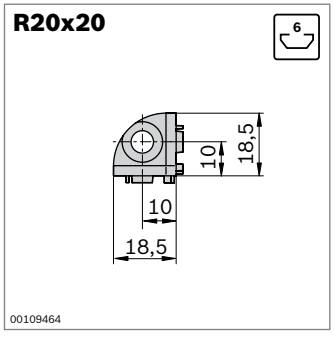
* Cubic connector creates conductive connection, but the cover caps included in the set are not ESD-compatible.




## 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

### R20x20



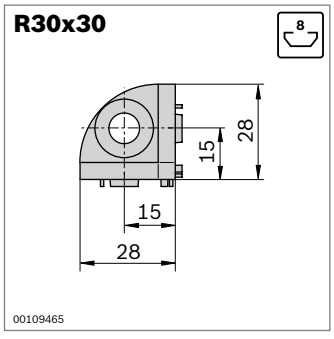

| Type | $\frac{M_{max}}{2}$ $\frac{M_{max}}{2}$ |
|---|---|
| 20/3 | 23 Nm |

**FS1**




| R20x20 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Corner bracket | | 6 | | 1 | **3 842 519 318** | 3xFS1 |
| Cover cap K (ball) | signal gray (PP) | | | 10 | **3 842 548 708** | |
| | black (PP) | | | 10 | **3 842 548 712** | |
| Cover cap W (cube) | signal gray (PP) | | | 10 | **3 842 548 716** | |
| | black (PP) | | | 10 | **3 842 548 720** | |
| Material: | Corner bracket: Diecast zinc<br>Fastening material: Steel; zinc-plated | | | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | | | |

### R30x30



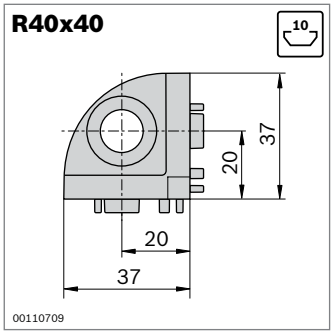

| Type | $\frac{M_{max}}{2}$ $\frac{M_{max}}{2}$ |
|---|---|
| 30/3 | 85 Nm |

**FS2**




| R30x30 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Corner bracket | | 8 | | 1 | **3 842 519 319** | 3xFS2 |
| Cover cap K (ball) | signal gray (PP) | | | 10 | **3 842 548 709** | |
| | black (PP) | | | 10 | **3 842 548 713** | |
| Cover cap W (cube) | signal gray (PP) | | | 10 | **3 842 548 717** | |
| | black (PP) | | | 10 | **3 842 548 721** | |
| Material: | Corner bracket: Diecast zinc<br>Fastening material: Steel; zinc-plated | | | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | | | |

**R40x40**



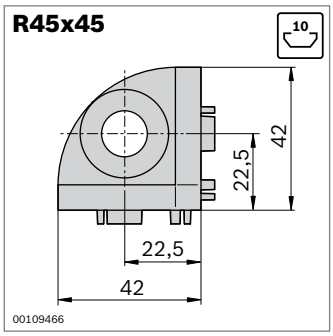

| Type | $\frac{M_{max}}{2}$ $\frac{M_{max}}{2}$ |
|---|---|
| 40/3 | 70 Nm |

**FS3**




| R40x40 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Corner bracket | | 10 | | 1 | **3 842 529 404** | 3xFS3 |
| Cover cap K (ball) | signal gray (PP) | | | 10 | **3 842 548 710** | |
| | black (PP) | | | 10 | **3 842 548 714** | |
| Cover cap W (cube) | signal gray (PP) | | | 10 | **3 842 548 718** | |
| | black (PP) | | | 10 | **3 842 548 722** | |
| Material: | Corner bracket: Diecast zinc<br>Fastening material: Steel; zinc-plated | | | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | | | |

**R45x45**

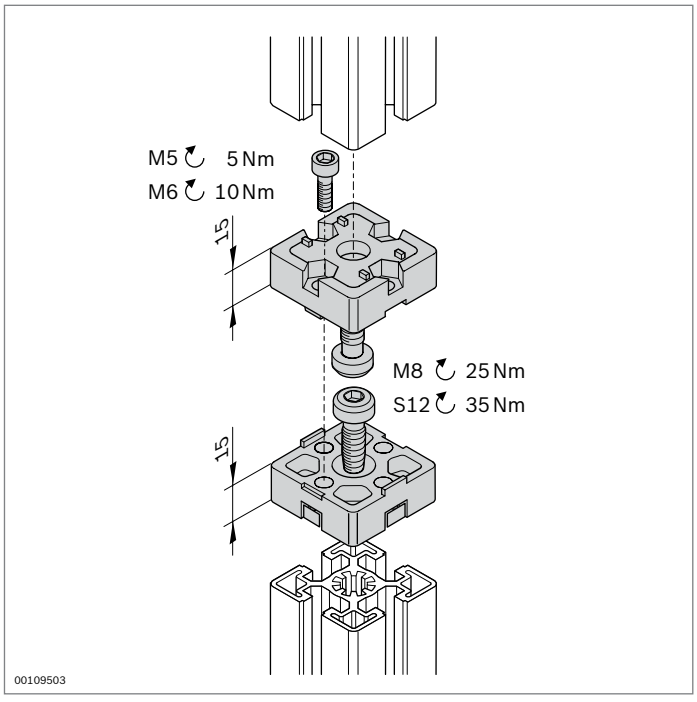



| Type | | $\frac{M_{max}}{2}$ $\frac{M_{max}}{2}$ |
|---|---|---|
| 45/3 | 45x45L | 170 Nm |
| | 45x45 | 240 Nm |

**FS4**




| R45x45 | | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|---|
| Corner bracket | | 10 | | 1 | **3 842 519 321** | 3xFS4 |
| Cover cap K (ball) | signal gray (PP) | | | 10 | **3 842 548 711** | |
| | black (PP) | | | 10 | **3 842 548 715** | |
| Cover cap W (cube) | signal gray (PP) | | | 10 | **3 842 548 719** | |
| | black (PP) | | | 10 | **3 842 548 723** | |
| Material: | Corner bracket: Diecast zinc<br>Fastening material: Steel; zinc-plated | | | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | | | |

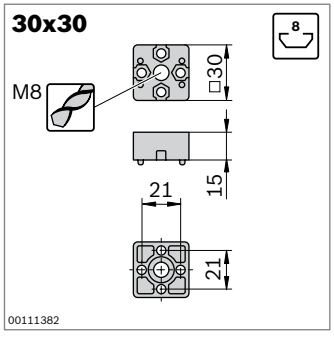



## End connector




*designLINE*

- 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



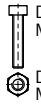

| Type | $M_{max}$ |
|---|---|
| 30x30 | 81 Nm |

**FS1**



DIN7984 M8x30

**FS2**

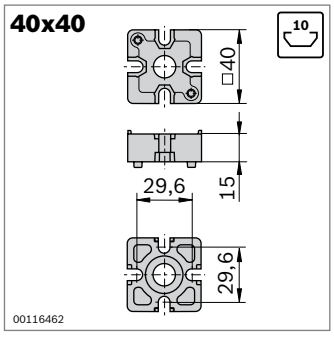


DIN 7984 M5x25

DIN 934 M5

| End connector | | Slot | ESD | No. | FS |
|---|---|---|---|---|---|
| **30x30** | Set (standard) | 8 | | **3 842 526 003** | 2xFS1, 4xFS2 |
| | *designLINE* 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)



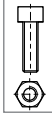

| Type | $M_{max}$ |
|---|---|
| 40x40 | 170 Nm |

**FS3**



S12x30

**FS4**



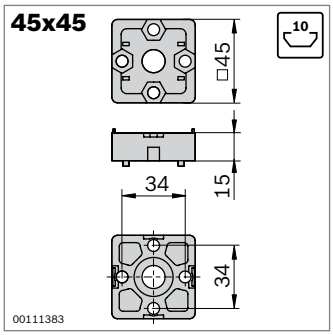
DIN 7984 M6x25

ISO 4032 M6

| End connector | | Slot | ESD | No. | FS |
|---|---|---|---|---|---|
| **40x40** | Set (standard) | 10 | | **3 842 532 196** | 2xFS3, 4xFS4 |
| | *designLINE* 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)

**45x45**

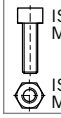



| Type | $M_{max}$ |
|---|---|
| 45x45 | 200 Nm |

**FS3**



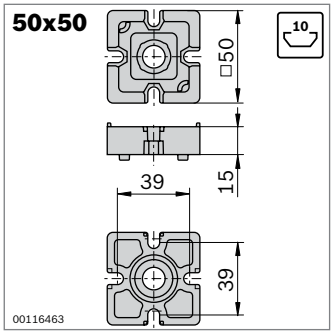

**FS4**




| End connector | | Slot | ESD | No. | FS |
|---|---|---|---|---|---|
| **45x45** | Set (standard) | 10 | | **3 842 191 175** | 2xFS3, 4xFS4 |
| | *designLINE* set | 10 | | **3 842 538 658** | 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)

**50x50**

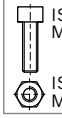



| Type | $M_{max}$ |
|---|---|
| 50x50 | 180 Nm |

**FS3**

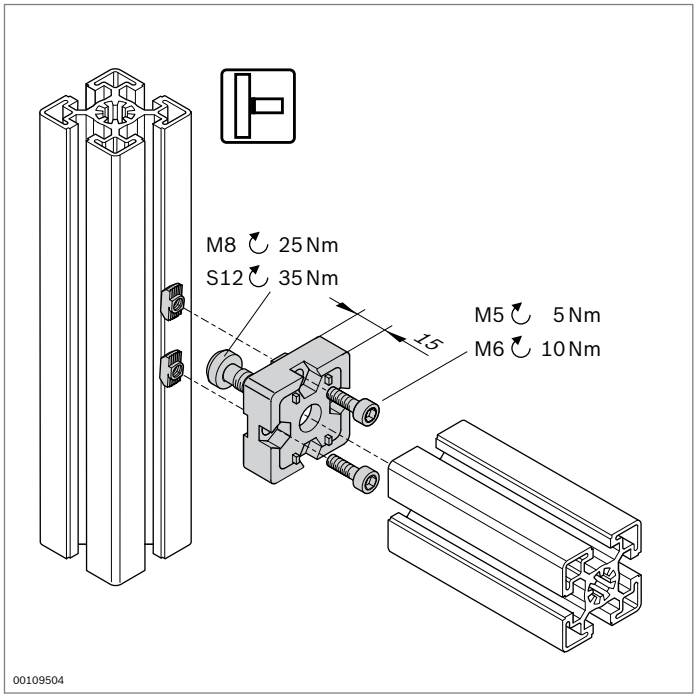



**FS4**




| End connector | | Slot | ESD | No. | FS |
|---|---|---|---|---|---|
| **50x50** | Set (standard) | 10 | | **3 842 532 199** | 2xFS3, 4xFS4 |

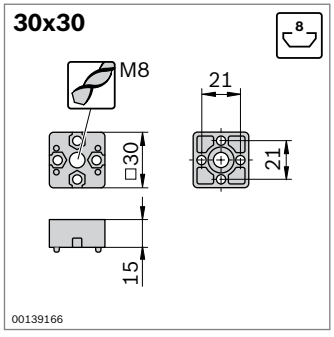
Material: End connector: Diecast zinc
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)




## T-connector

*designLINE*

- 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




| Type | Fmax | Mmax |
|---|---|---|
| 30x30 | 4000 N | 80 Nm |

**FS1**



DIN7984 M8x30

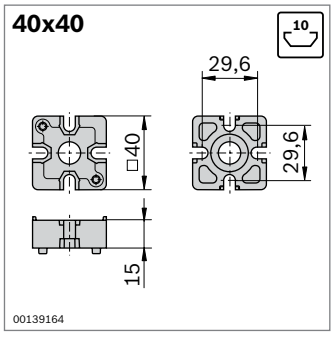
**FS2**




DIN 7984 M5x16

| T-connector | | Slot | ESD | No. | FS |
|---|---|---|---|---|---|
| **30x30** | Set (standard) | 8 | | **3 842 524 476** | 1xFS1, 2xFS2 |
| | *designLINE* 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)



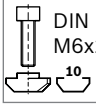

| Type | Fmax | Mmax |
|---|---|---|
| 40x40 | 9000 N | 150 Nm |

**FS3**



S12x30

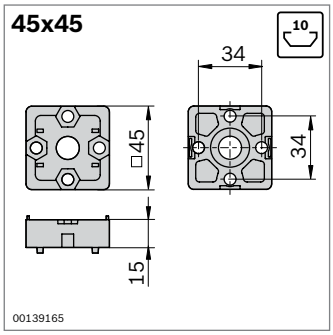
**FS4**




DIN 7984 M6x20

| T-connector | | Slot | ESD | No. | FS |
|---|---|---|---|---|---|
| **40x40** | Set (standard) | 10 | | **3 842 532 195** | 1xFS3, 2xFS4 |
| | *designLINE* 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)

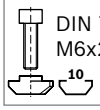



| Type | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 45x45 | 9000 N | 200 Nm |

**FS3**

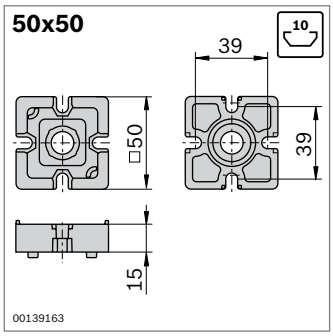



**FS4**




| T-connector | | Slot | ESD | No. | FS |
|---|---|---|---|---|---|
| **45x45** | Set (standard) | 10 | | **3 842 520 802** | 1xFS3, 2xFS4 |
| | *designLINE* set | 10 | | **3 842 538 698** | 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)

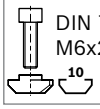



| Type | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 50x50 | 10000 N | 170 Nm |

**FS3**

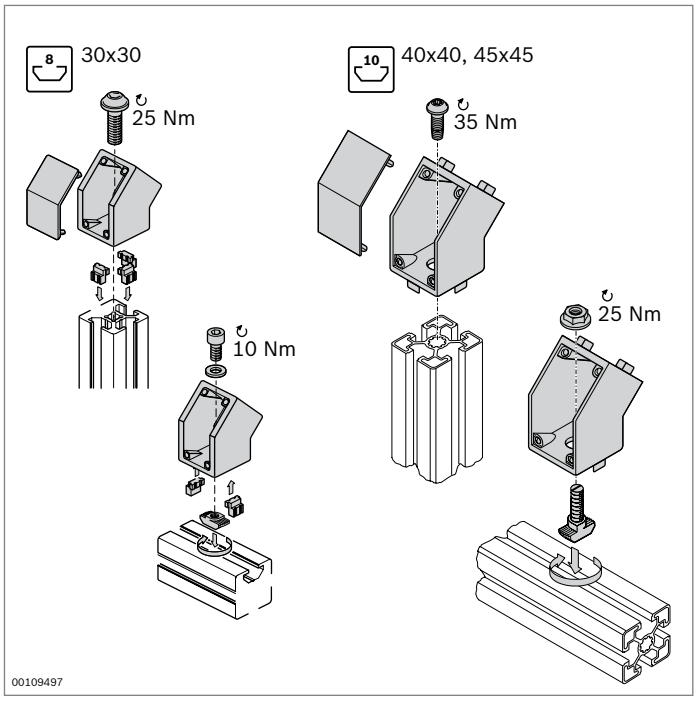



**FS4**




| T-connector | | Slot | ESD | No. | FS |
|---|---|---|---|---|---|
| **50x50** | Set (standard) | 10 | | **3 842 532 198** | 1xFS3, 2xFS4 |

Material: T-connector: Diecast zinc
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)

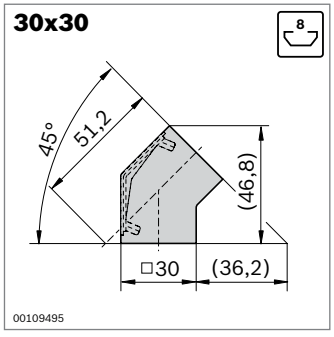


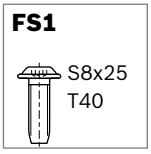

## Connector 45°

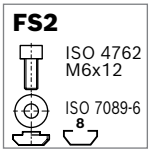
*designLINE*

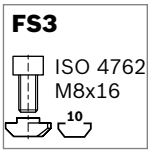
- For connecting profiles at an angle of less than 45°
- Suitable for reinforcing frames
- Suitable for connections at the end-face or in the profile slot
- 45° connectors 40x40 and 45x45 with centering lugs for easy positioning (centering lugs can simply be broken off for installation in the profile 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.



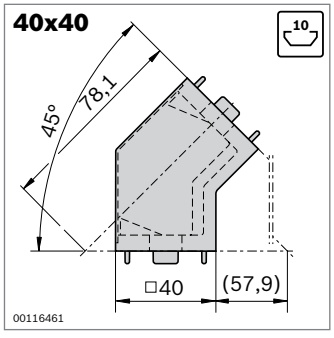



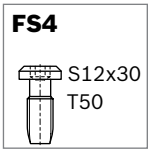



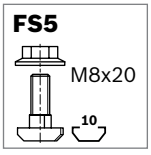

| Connector 45° | | Color | Slot | ESD | No. | FS |
|---|---|---|---|---|---|---|
| **30x30** | Set (standard) | Signal gray | 8 | * | **3 842 554 446** | 2xFS1, FS2, FS3 |
| | | Black | 8 | | **3 842 554 447** | |
| | *designLINE* set | Signal gray | 8 | * | **3 842 554 452** | 2xFS1, FS2, FS3 |
| | | Black | 8 | | **3 842 554 453** | |

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



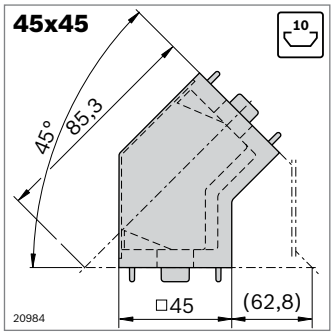



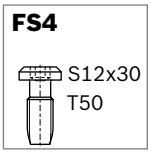



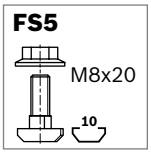

| Connector 45° | | Color | Slot | ESD | No. | FS |
|---|---|---|---|---|---|---|
| **40x40** | Set (standard) | Signal gray | 10 | * | **3 842 554 448** | 2xFS4, FS5 |
| | | Black | 10 | | **3 842 554 449** | |
| | *designLINE* set | Signal gray | 10 | * | **3 842 554 454** | 2xFS4, FS5 |
| | | Black | 10 | | **3 842 554 455** | |

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



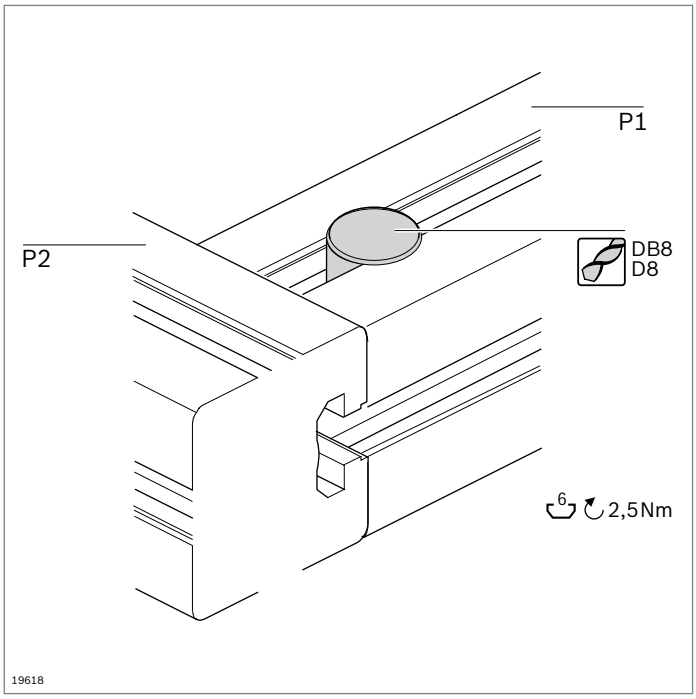




| Connector 45° | | Color | Slot | ESD | No. | FS |
|---|---|---|---|---|---|---|
| **45x45** | Set (standard) | Signal gray | 10 | * | **3 842 554 450** | 2xFS4, FS5 |
| | | Black | 10 | | **3 842 554 451** | |
| | *designLINE* set | Signal gray | 10 | * | **3 842 554 456** | 2xFS4, FS5 |
| | | Black | 10 | | **3 842 554 457** | |

Material: 45° connector: Cast aluminum; *designLINE* 45° connector: painted (RAL 9006); centering piece, cover cap: PP; fastening material: Steel; zinc-plated

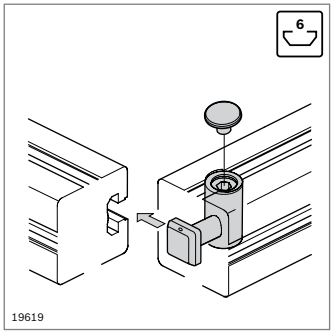
Scope of delivery: Set incl. fastening material (FS), cover cap

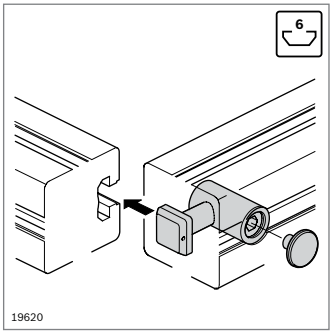


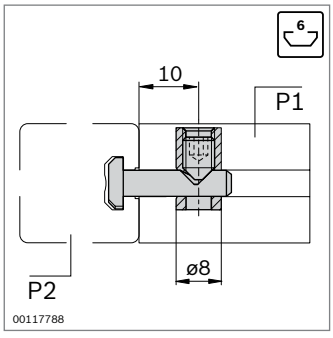

## Quick connector, 6 mm slot, 0°, 90° cover cap

- 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)

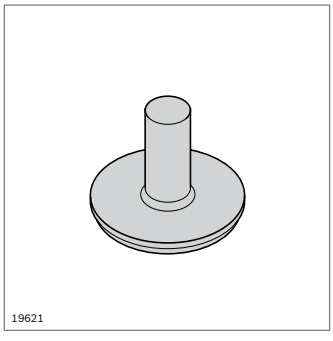


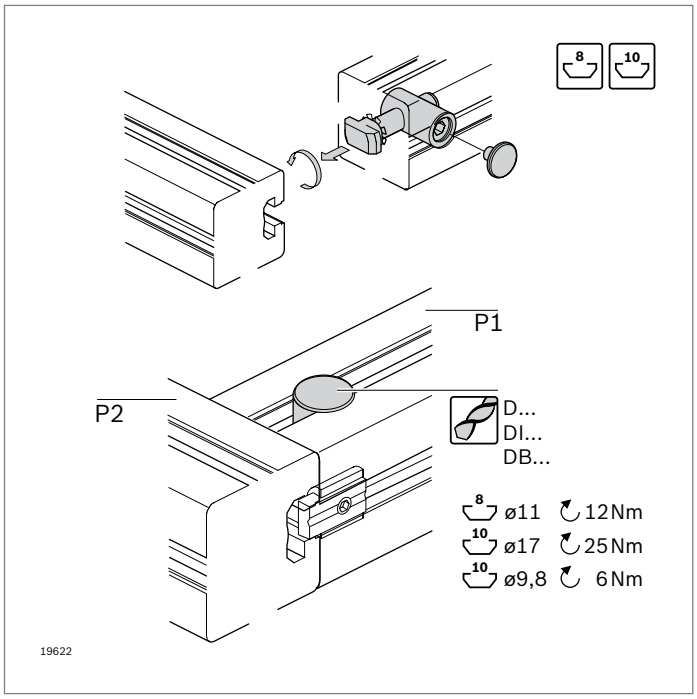

| Slot | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 6 / 6 | 450 N | 18 Nm |

| Quick connector 0° / 90° | P1 / P2 | D (mm) | ESD | | No. |
|---|---|---|---|---|---|
| | 6 / 6 | 8 | | 10 | **3 842 537 013** |
| Material: | Steel; stainless | | | | |




- Cover cap for connector sleeves

| Cover cap | D (mm) | | No. |
|---|---|---|---|
| | 8 | 100 | **3 842 551 038** |
| Material: | PE; signal gray RAL 7004 | | |

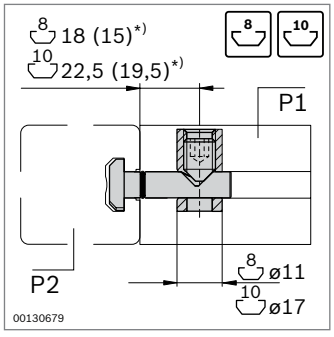



## Quick connector, 8/10 mm slot, 0°

- 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:

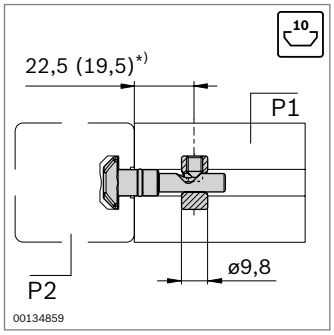
- Anti-torsion element (p. 3-44)
- Radial compensation (p. 2-94)
- Drilling jig (p. 14-2)
- Cover cap (p. 3-56)




| 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

| Quick connector 0° | P1 / P2 | D (mm) | ESD | | No. |
|---|---|---|---|---|---|
| **Steel; zinc-plated** | 8 / 8 | 11 | ESD | 10 | **3 842 535 459** |
| | 8 / 10 | 11 | ESD | 10 | **3 842 535 464** |
| | 10 / 10 | 17 | ESD | 10 | **3 842 535 458** |
| **Steel; stainless** | 8 / 8 | 11 | ESD | 10 | **3 842 548 934** |
| | 8 / 10 | 11 | ESD | 10 | **3 842 548 935** |
| | 10 / 10 | 17 | ESD | 10 | **3 842 548 936** |



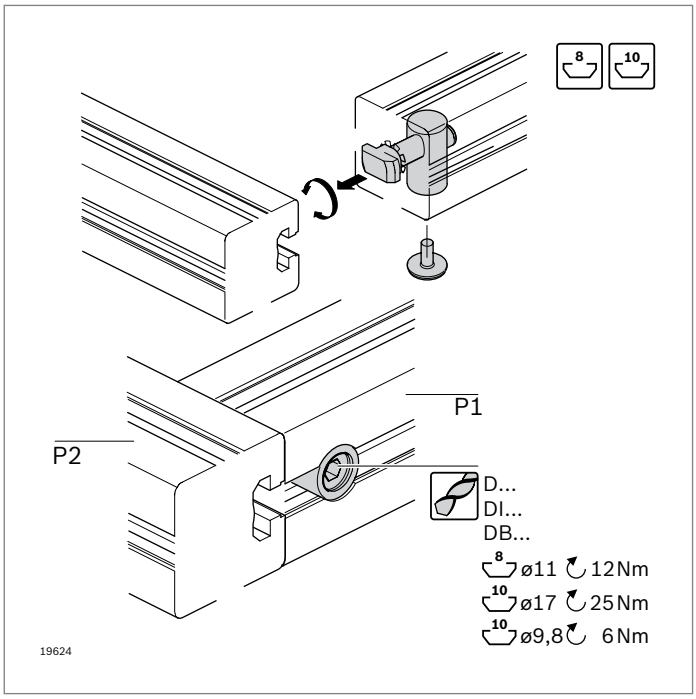

| Slot | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 10 / 10 | 800 N | 50 Nm |

*) With the use of a radial compensation

- 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. |
|---|---|---|---|---|---|
| **Steel; zinc-plated** | 10 / 10 | 9.8[1)] | ESD | 10 | **3 842 541 412** |

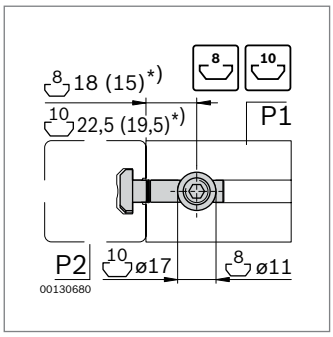
[1)] No standard hole in modular dimensions 40, 50 and 60
Target distance from profile end: 22.5 mm




## 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

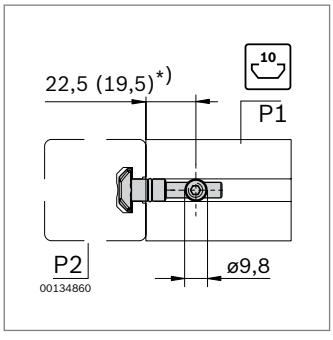
Accessories, optional:
- Anti-torsion element (p. 3-44)
- Radial compensation (p. 2-94)
- Drilling jig (p. 14-2)
- Cover cap




| 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** |

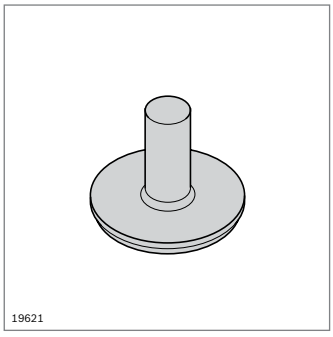



| Slot | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 10 / 10 | 800 N | 50 Nm |

*) With the use of a radial compensation

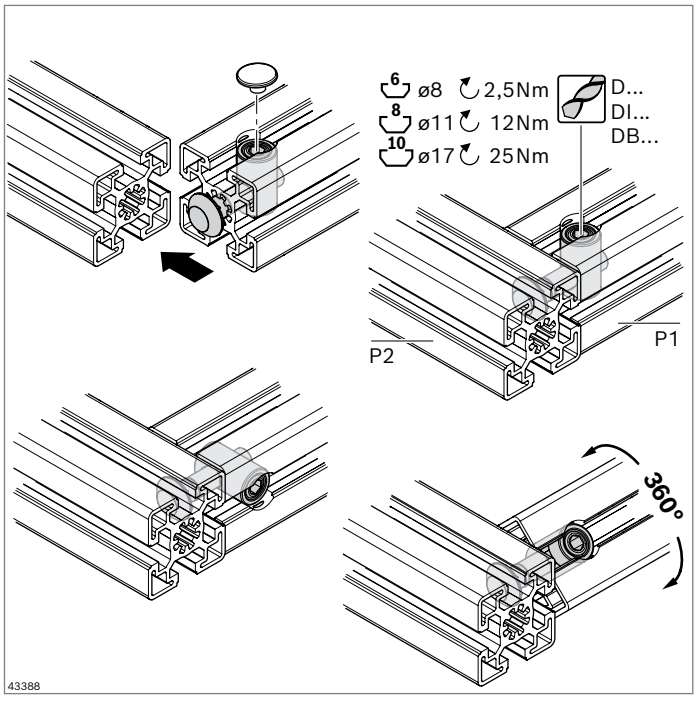
| Quick connector 90°, connector sleeve D = 9.8 | P1 / P2 | D (mm) | ESD | | No. |
|---|---|---|---|---|---|
| **Steel; zinc-plated** | 10 / 10 | 9.8[1)] | | 10 | **3 842 541 410** |

1) 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** |

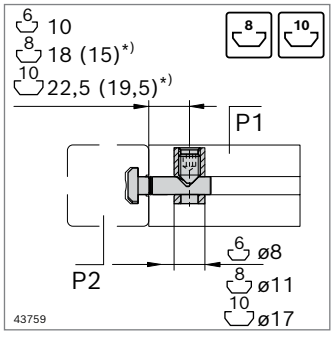
Material: PE; signal gray RAL 7004




## 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 (25.079ersions)
- Profiles can be rotated as desired
- Profile finishing:
  Blind hole DI, DB8, DB11, DB17 or
  through-hole DI, D8, D11, D17

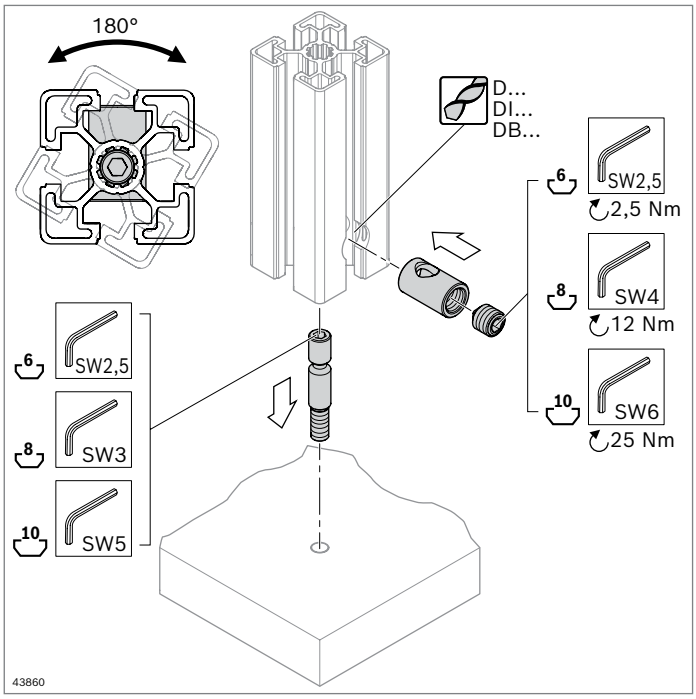
Accessories, optional:
Anti-torsion element (p. 3-44)
Radial compensation (p. 2-94)
Drilling jig (p. 14-2)
Cover cap (p. 3-56 + 3-58)




| 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

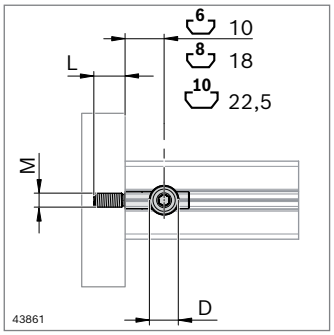
| Quick connector with round head | P1 / P2 | D (mm) | ESD | | No. |
|---|---|---|---|---|---|
| **Steel; stainless** | 6 / 6 | 8 | | 10 | **3 842 564 112** |
| **Steel; zinc-plated** | 8 / 8 | 11 | | 10 | **3 842 564 113** |
| | 8 / 10 | 11 | | 10 | **3 842 564 142** |
| | 10 / 10 | 17 | | 10 | **3 842 564 114** |




## Quick connector with threaded tension rods

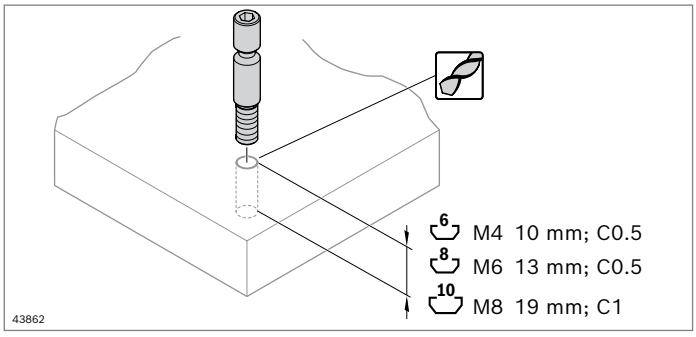
- For attaching profiles to plates
- Easy tensioning thanks to circumferential notch on the tie rod
- Profile finishing:
  Blind hole DB8, DB11, DB17 or
  through-hole D8, D11, D17

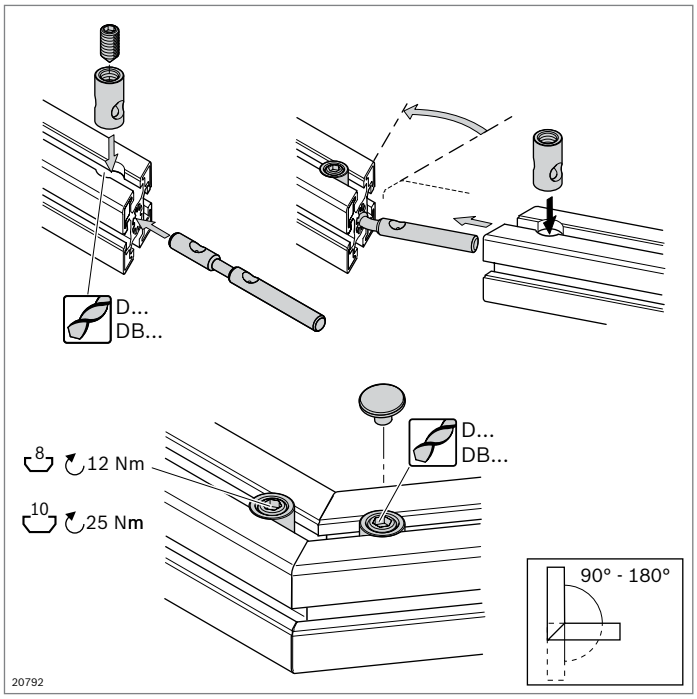
Accessories, optional:
- Anti-torsion element (p. 3-44)
- Drilling jig (p. 14-2)
- Cover cap (p. 3-56 + 3-58)




| 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. |
|---|---|---|---|---|---|---|---|
| **Steel; stainless** | 6 | M4 | 9 | 8 | ESD | 10 | **3 842 557 258** |
| **Steel; zinc-plated** | 8 | M6 | 12 | 11 | ESD | 10 | **3 842 557 257** |
| | 10 | M8 | 18 | 17 | ESD | 10 | **3 842 557 256** |



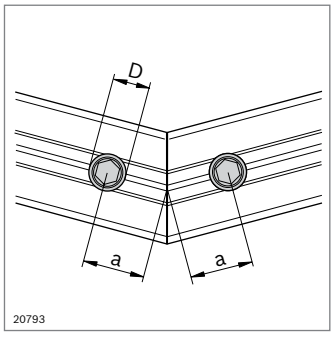



## Quick connector, bendable – end-to-end

- 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)

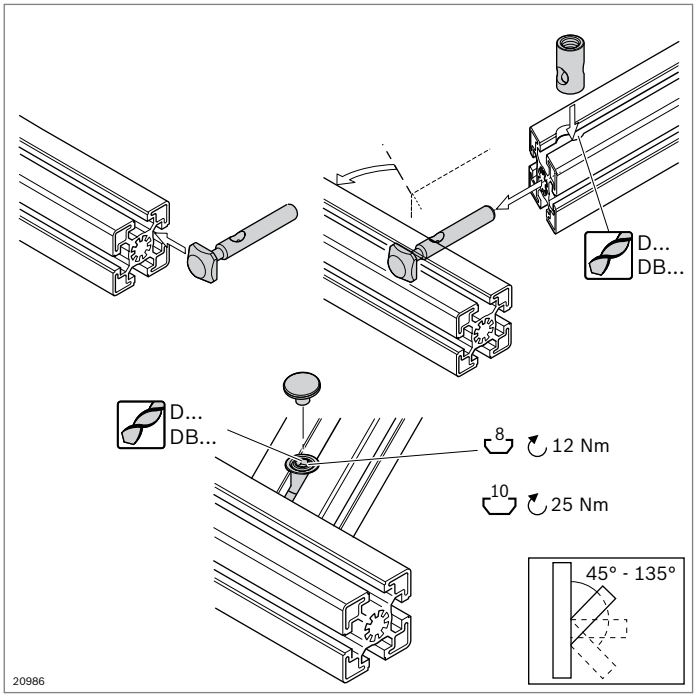
Accessories:
- Drilling jig (p. 14-2)
- Cover cap (p. 3-56)

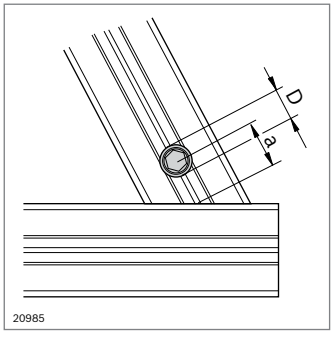



| Profile | $M_{max}$ |
|---|---|
| 30x30 | 24 Nm |
| 40x40L | 100 Nm |
| 45x45L | 110 Nm |
| 45x45 | 145 Nm |
| 50x50L | 160 Nm |

| Quick connector, bendable | P1 / P2 | a (mm) | D (mm) | ESD | | No. |
|---|---|---|---|---|---|---|
| **End-to-end** | 8 / 8 | 18 | 11 | ESD | 10 | **3 842 535 630** |
| | 10 / 10 | 22.5 | 17 | ESD | 10 | **3 842 535 634** |

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 |

## Quick connector, bendable – end-to-slot

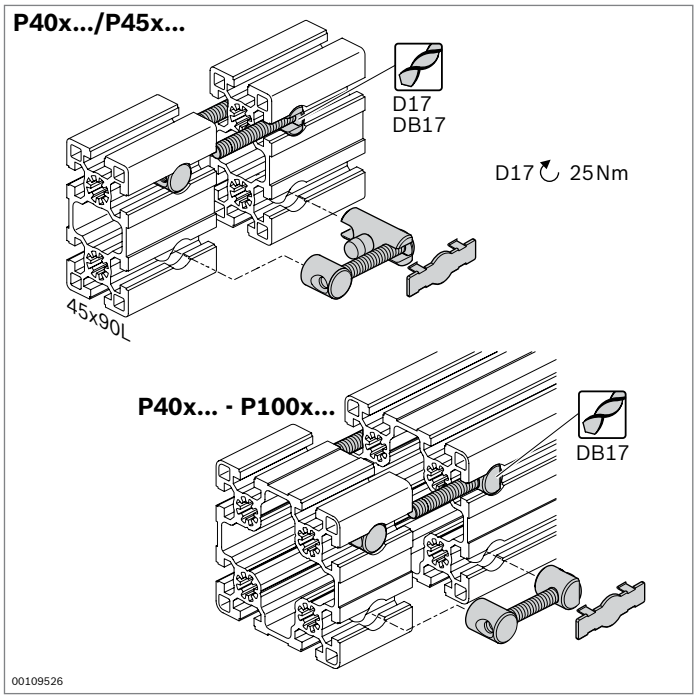
- For end-to-slot connecting of two profiles at any angle, e.g. for framework constructions
- Profile finishing:
  Blind hole DB11, DB17 or through-hole D11, D17
  Miter cut

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 | ESD | 10 | **3 842 535 629** |
| | 10 / 10 | 22.5 | 17 | ESD | 10 | **3 842 535 635** |

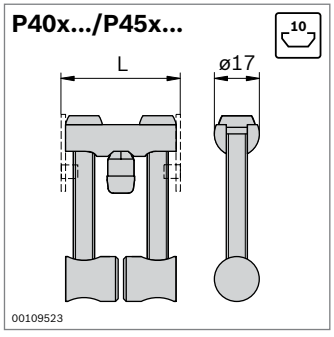
Material: Tie rod: Steel; stainless
Socket: Steel; zinc-plated




## Longitudinal end connector

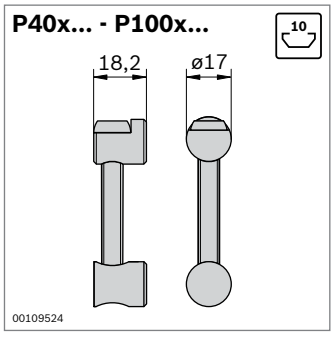
- For the end-to-end connecting of two profiles
- Standard profile finishing:
  Through-hole D17 (longitudinal end connectors on both sides)
  Blind hole DB17 or through-hole D17 (longitudinal end connector on one side)

Accessories, optional:
Cover cap D17 x 44.6; ESD (p. 3-65)



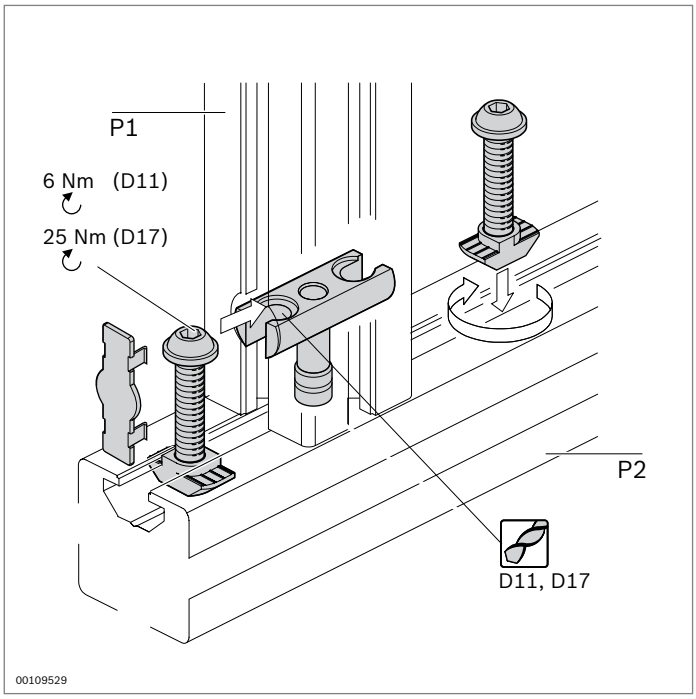

| Longitudinal end connector, two-sided | L (mm) | ESD | No. |
|---|---|---|---|
| **Profile 40x...** | 40 | * | **3 842 554 442** |
| **Profile 45x...** | 45 | * | **3 842 554 440** |

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.



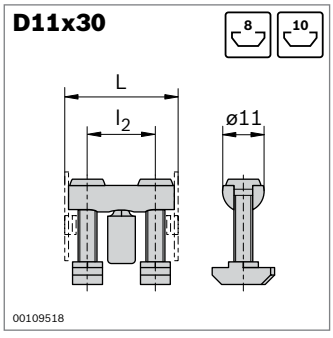

## Bolt connector

- 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)

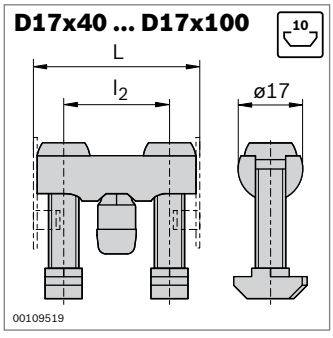



| Size | $F_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|
| 30 | 2500 N | 60 Nm | 20 Nm |

| Bolt connector | P1 / P2 | L (mm) | $l_2$ (mm) | ESD | | No. |
|---|---|---|---|---|---|---|
| **D11x30** | 8 / 8 | 30 | 18 | * | 10 | **3 842 554 402** |
| | 8 / 10 | 30 | 18 | * | 10 | **3 842 555 590** |

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

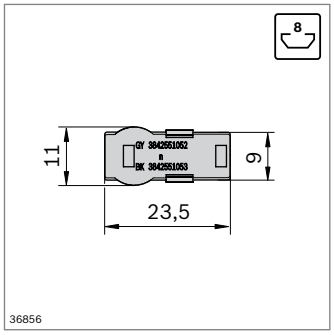



| Size | $F_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|
| 40 | 4000 N | 180 Nm | 40 Nm |
| 45 | 4000 N | 180 Nm | 60 Nm |
| 50 | 4000 N | 200 Nm | 65 Nm |
| 60 | 4000 N | 200 Nm | 80 Nm |
| 80 | 5000 N | 800 Nm | 170 Nm |
| 90 | 5000 N | 800 Nm | 200 Nm |
| 100 | 5000 N | 1000 Nm | 480 Nm |

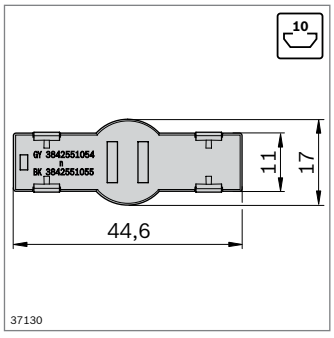
| Bolt connector | P1 / P2 | L (mm) | $l_2$ (mm) | ESD | | No. |
|---|---|---|---|---|---|---|
| **D17x40** | 10 / 10 | 40 | 23 | * | 10 | **3 842 555 594** |
| **D17x45** | 10 / 10 | 45 | 28 | * | 10 | **3 842 555 584** |
| **D17x50** | 10 / 10 | 50 | 33 | * | 10 | **3 842 555 596** |
| **D17x60** | 10 / 10 | 60 | 43 | * | 10 | **3 842 555 586** |
| **D17x80** | 10 / 10 | 80 | 63 | * | 10 | **3 842 555 598** |
| **D17x90** | 10 / 10 | 90 | 73 | * | 10 | **3 842 555 588** |
| **D17x100** | 10 / 10 | 100 | 83 | * | 10 | **3 842 555 592** |

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.

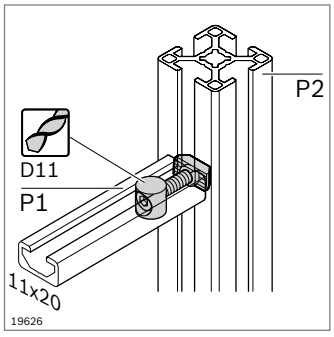
Scope of delivery: Incl. 2 x cover cap

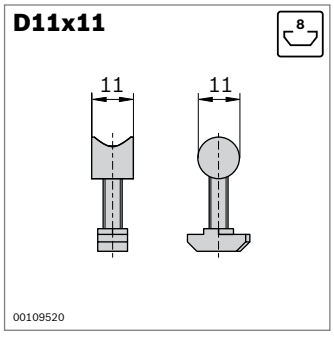



| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **D11 x 23.5** | Signal gray | | 100 | **3 842 551 052** |
| **D11 x 23.5** | Black | ⚠ | 100 | **3 842 551 053** |
| Material: | PP | | | |

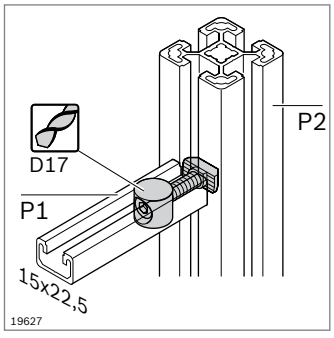


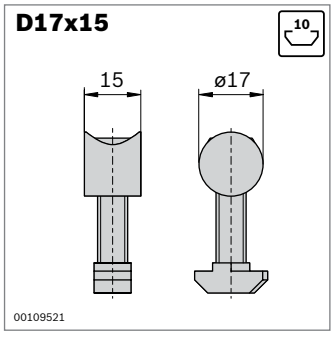

| Cover cap | Color | ESD | | No. |
|---|---|---|---|---|
| **D17 x 44.6** | Signal gray | | 100 | **3 842 551 054** |
| **D17 x 44.6** | Black | ⚠ | 100 | **3 842 551 055** |
| Material: | PP | | | |



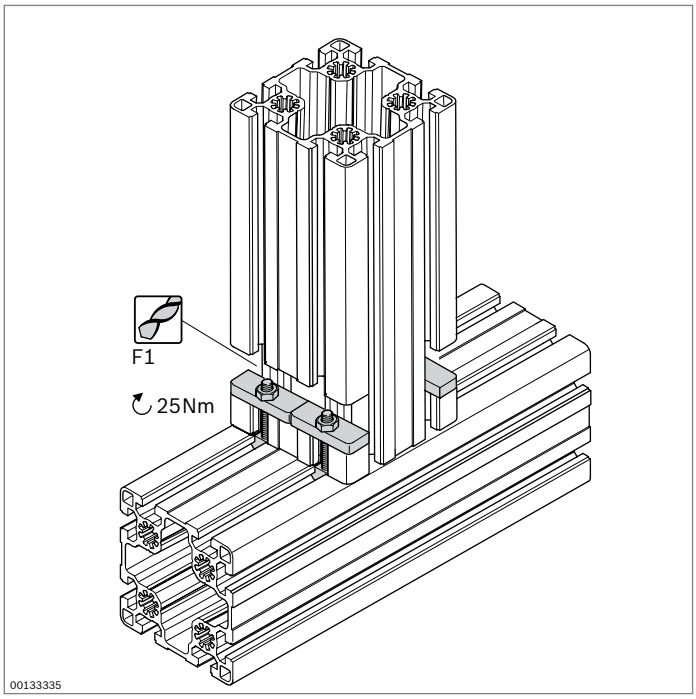




| Bolt connector | P1 / P2 | ESD | | No. |
|---|---|---|---|---|
| **D11x11** | 8 / 8 | ⚠ | 10 | **3 842 535 617** |
| Material: | Steel; zinc-plated | | | |



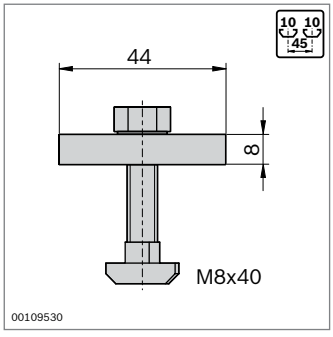

| Bolt connector | P1 / P2 | ESD | | No. |
|---|---|---|---|---|
| **D17x15** | 10 / 10 | ⚠ | 10 | **3 842 535 619** |
| Material: | Steel; zinc-plated | | | |




## QV mounting kit

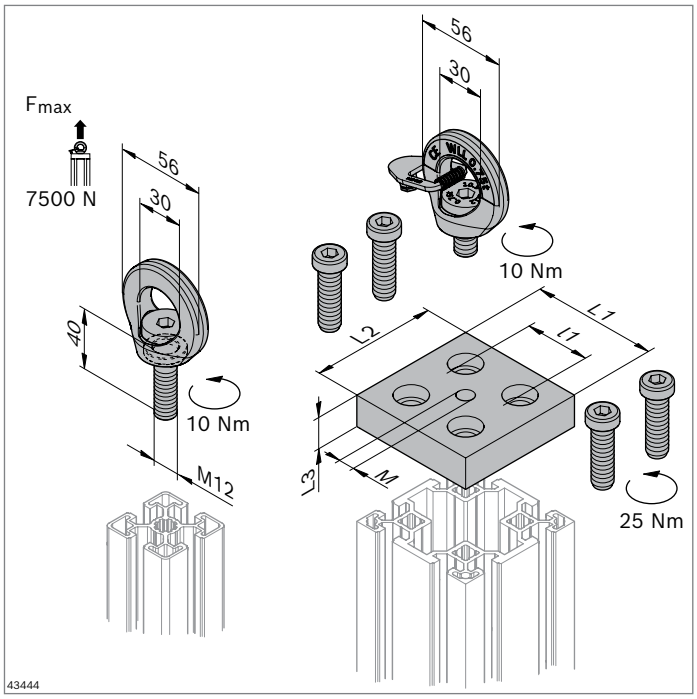



- For the right-angled connecting of two profiles
- Excellent accessibility for tools during mounting
- Profile finishing: Standard milling F1
- Bending moments must be avoided




| Slot | $F_{max}$ |
|---|---|
| 10 | 1000 N |

| QV mounting kit | | | No. |
|---|---|---|---|
| | | 10 | **3 842 146 972** |
| Material: | Steel; zinc-plated | | |

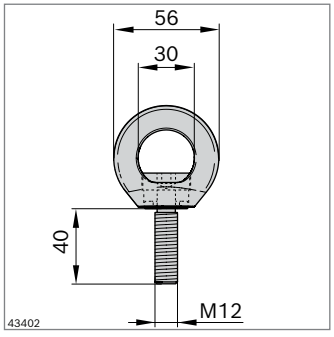



## Lifting eye bolt

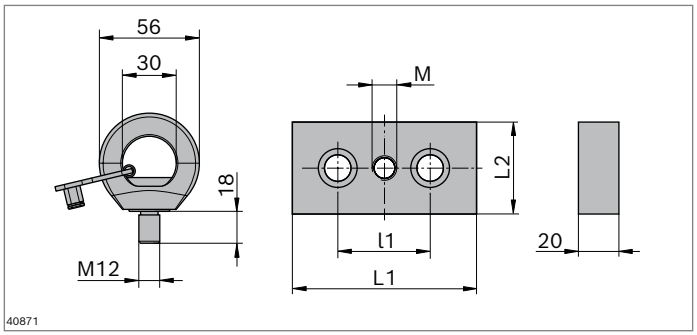



- Lifting eye bolt for lifting aluminum profile frames
- Profile finishing:
  M12 thread cutting in central hole

Technical data (p. 18-22)




| Lifting eye bolt M12x40 | | No. |
|---|---|---|
| | | **3 842 564 729** |
| Material: | Screw: Steel; bronzed<br>Eye: Steel, painted (orange) | |



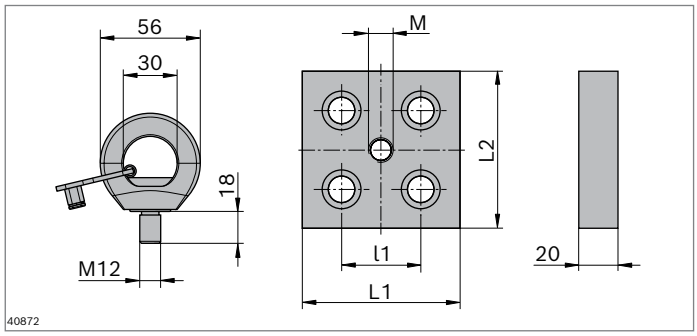

| Lifting eye bolt with plate | L1 (mm) | l1 (mm) | L2 (mm) | No. | FS |
|---|---|---|---|---|---|
| **45x90** | 90 | 45 | 45 | **3 842 564 734** | 2xFS1 |
| **40x80** | 80 | 40 | 40 | **3 842 564 736** | 2xFS1 |

Material: Plate: Steel; nickel-plated
Fastening material: Steel; zinc-plated
Screw: Steel; bronzed
Eye: Steel, painted (orange)

Scope of delivery: Incl. Fastening material

**FS1**




| Lifting eye bolt with plate | L1 (mm) | l1 (mm) | L2 (mm) | No. | FS |
|---|---|---|---|---|---|
| **90x90** | 90 | 45 | 90 | **3 842 564 735** | 4xFS2 |
| **80x80** | 80 | 40 | 80 | **3 842 564 737** | 4XFS2 |

Material: Plate: Steel; nickel-plated
Fastening material: Steel; zinc-plated
Screw: Steel; bronzed
Eye: Steel, painted (orange)

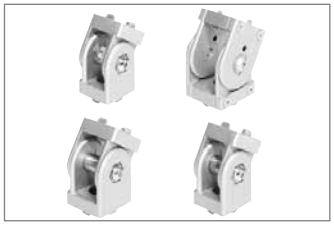
Scope of delivery: Incl. Fastening material

**FS2**



# Joints





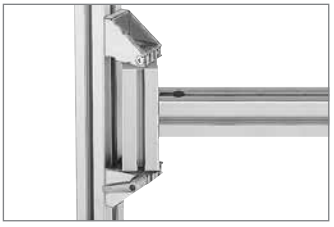
Joints (p. 4-2)



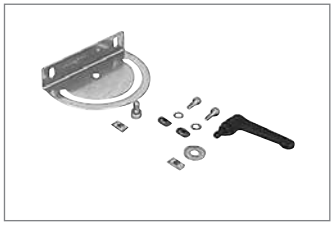
Swivel bearing (p. 4-11)



Supporting arm joint (p. 4-12)



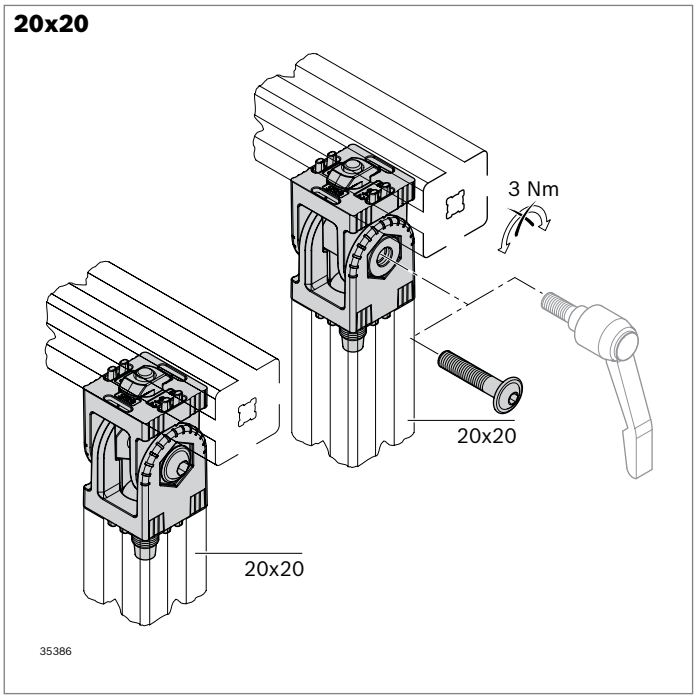
Bearing pedestal (p. 4-13)



Swivel mounting (p. 4-14)



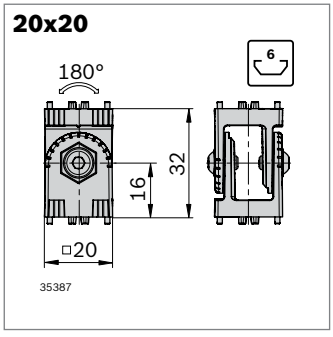
Clamping lever, star knob (p. 4-15)

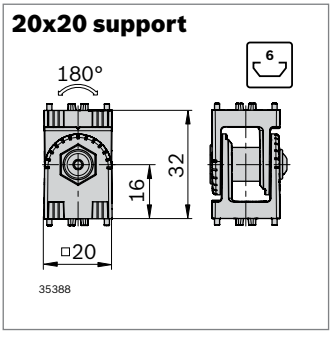



## Joint 20x20

*designLINE*

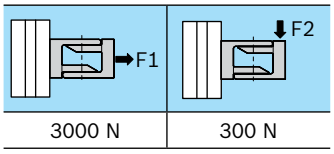
- For movable or rigid profile connections at any angle
- Swivel range 180°
- With a 15° graduation
- Clamping (3 Nm) and convenient adjustment of joint using a clamping lever (M4x20)
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design
- Two different assembly versions (normal and support) available under the same order number

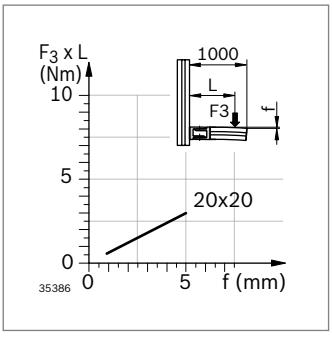


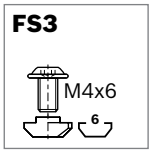




| Joint 20x20 | Slot | ESD | No. | FS |
|---|---|---|---|---|
| **Standard** | 6 | | **3 842 555 659** | 2xFS3, 2xFS4 |
| ***designLINE*** | 6 | | **3 842 555 665** | 2xFS3, 2xFS4 |

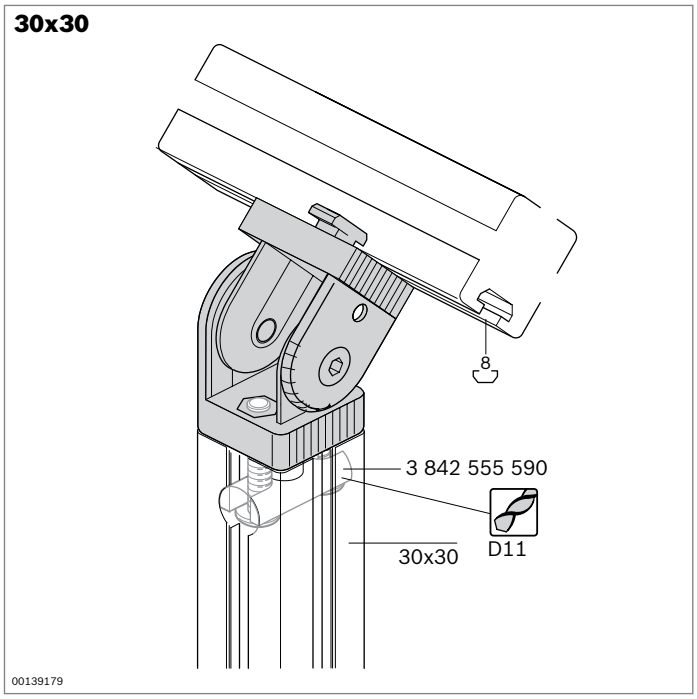
| | |
|---|---|
| Material: | Standard: Diecast aluminum<br>*designLINE*: painted, RAL 9006<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |





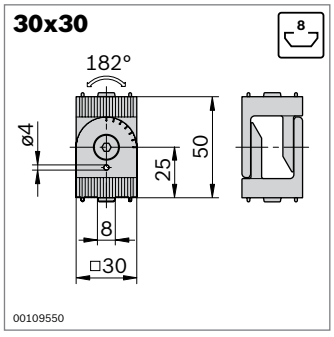



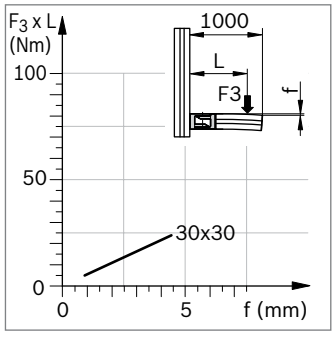

## Joint 30x30

*designLINE*

- 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

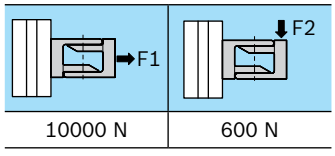




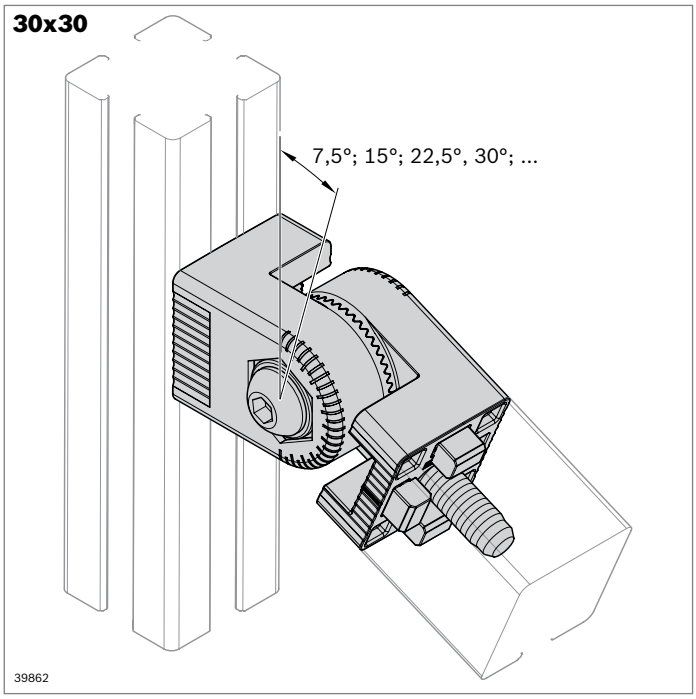





| Joint 30x30 | Slot | ESD | No. | FS |
|---|---|---|---|---|
| **Standard** | 8 | | **3 842 502 683** | 2xFS1, 4xFS2 |
| ***designLINE*** | 8 | | **3 842 538 683** | 2xFS1, 4xFS2 |

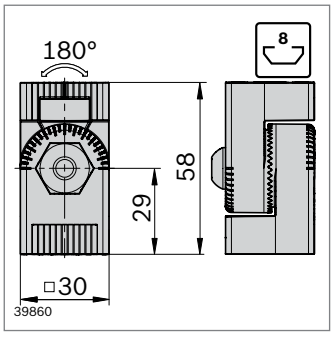
| | |
|---|---|
| Material: | Standard: Diecast zinc<br>*designLINE*: painted, RAL 9006<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |




## 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)

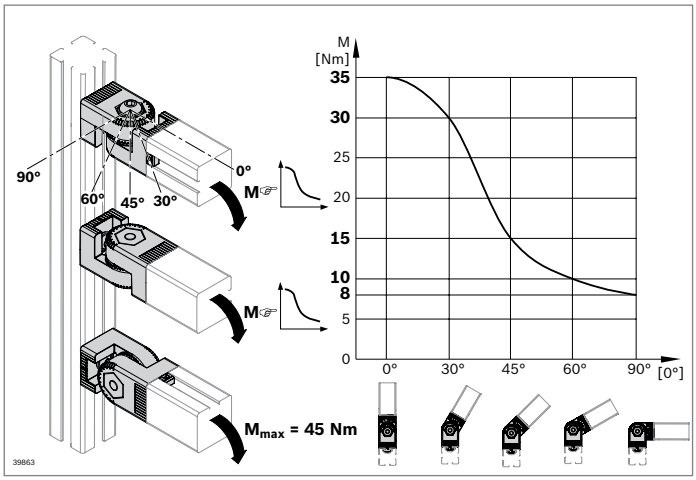


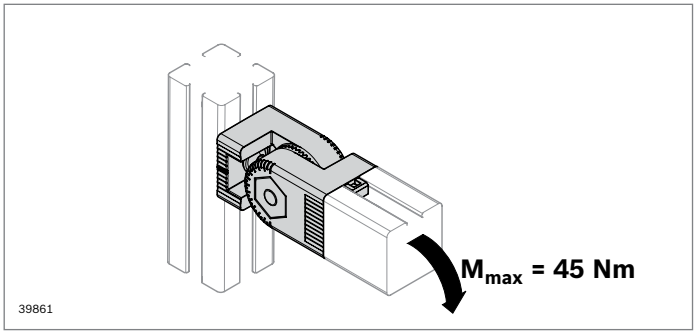

| Joint 30x30 lockable | Slot | ESD | No. |
|---|---|---|---|
| | 10 | ESD | **3 842 562 086** |

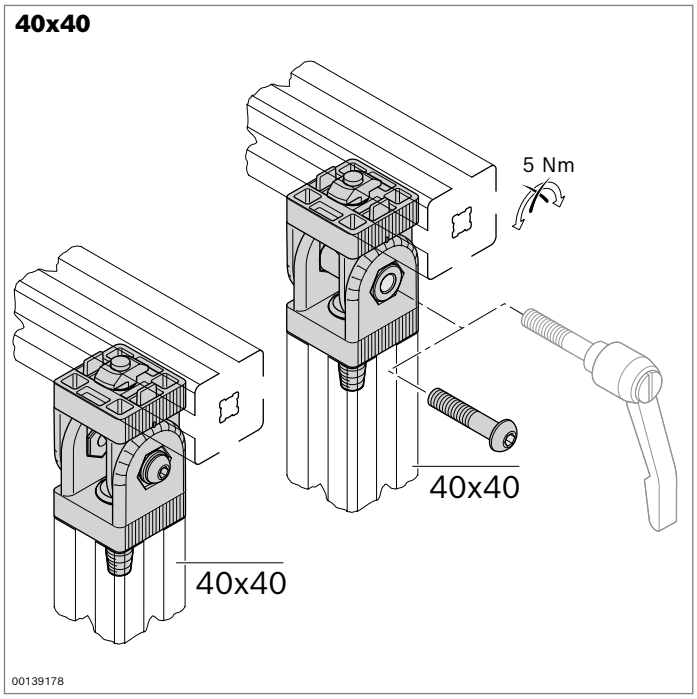
Material: Diecast zinc
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. Fastening material

| Clamping lever M8x30 | No. |
|---|---|
| **For joint 30x30 lockable** | **3 842 564 090** |

Material: Diecast zinc; black polymer coating



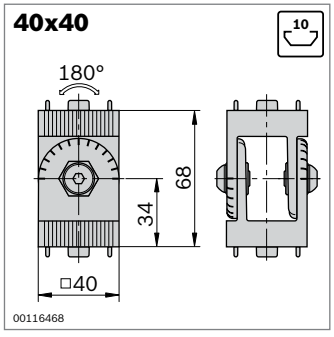


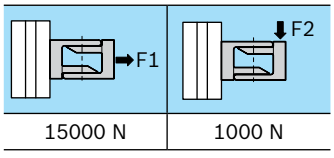

## Joint40x40, 40x40 support

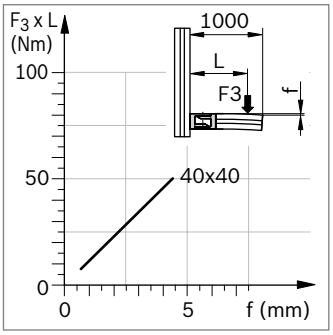
*designLINE*

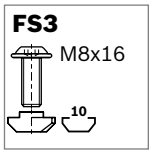
- For movable or rigid profile connections at any angle
- Swivel range 180°
- With a 15° graduation
- Joint can be clamped (5 Nm) or swivel mounted
- Clamping and convenient adjustment of support joint using a clamping lever (5 Nm)
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design

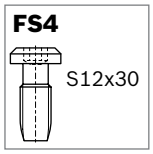




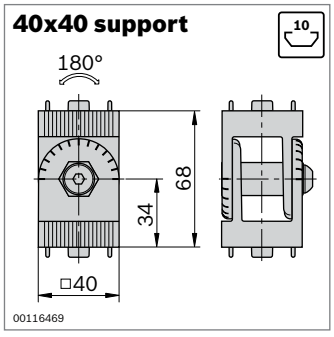



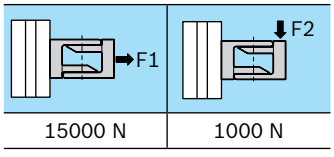



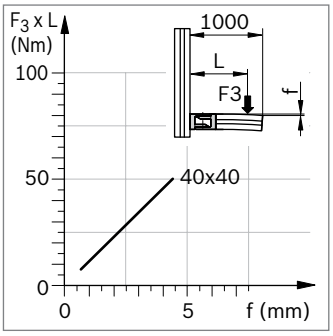



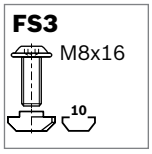

| Joint 40x40 | Slot | ESD | No. | FS |
|---|---|---|---|---|
| **Standard** | 10 | | **3 842 543 401** | 2xFS3, 2xFS4 |
| ***designLINE*** | 10 | | **3 842 538 684** | 2xFS3, 2xFS4 |

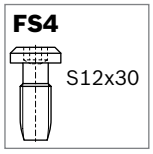
Material: Standard: Diecast aluminum
*designLINE*: painted, RAL 9006
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)



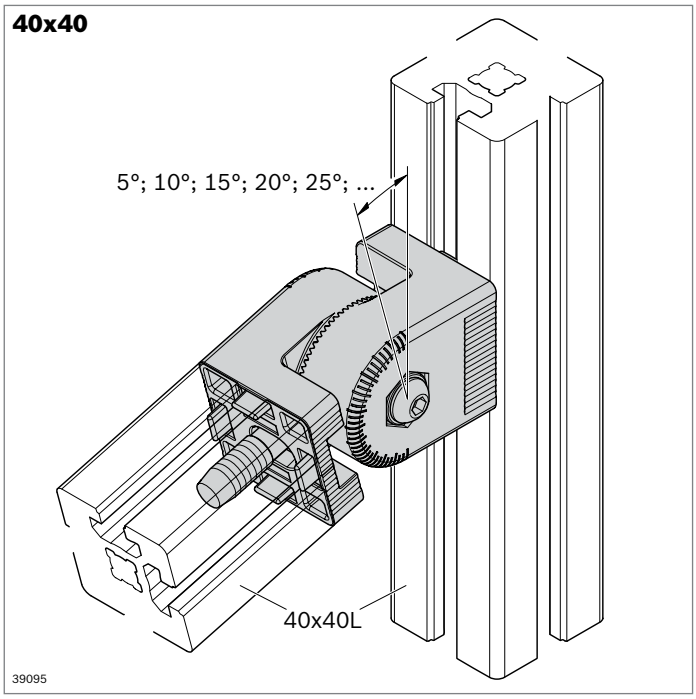




| Joint 40x40 support | Slot | ESD | No. | FS |
|---|---|---|---|---|
| **Standard** | 10 | | **3 842 543 402** | 2xFS3, 2xFS4 |
| ***designLINE*** | 10 | | **3 842 538 685** | 2xFS3, 2xFS4 |

Material: Standard: Diecast aluminum
*designLINE*: painted, RAL 9006
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

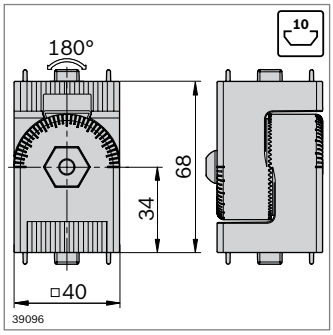
| Clamping lever M8x40 | No. |
|---|---|
| **For joint 40x40 support** | **3 842 516 847** |

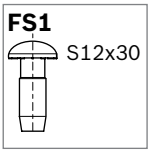
Material: Diecast zinc; black polymer coating

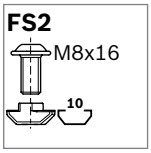



## Joint 40x40 lockable

- 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)



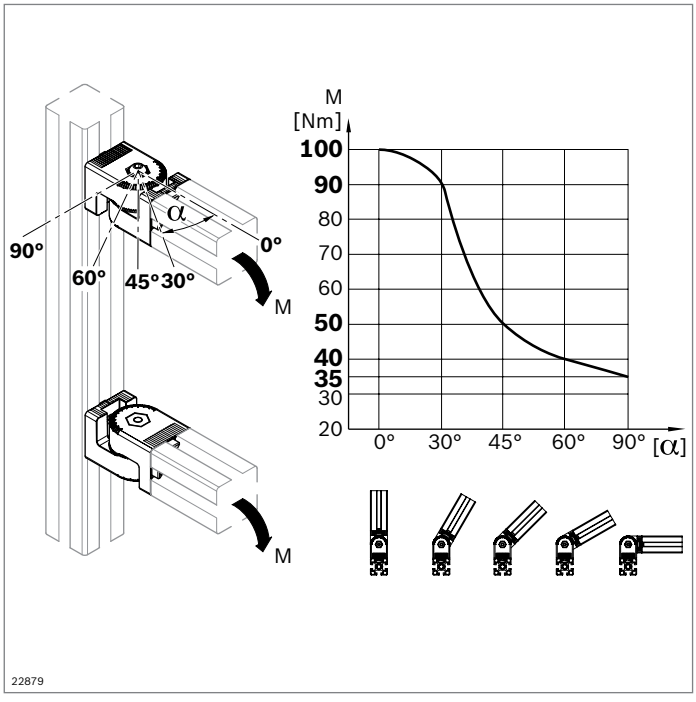



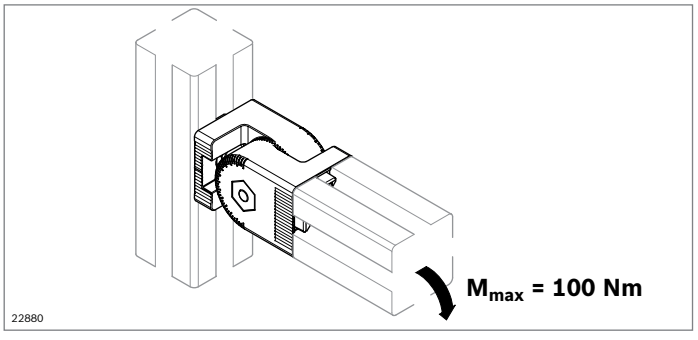

| Joint 40x40 lockable | Slot | ESD | No. | FS |
|---|---|---|---|---|
| **Standard** | 10 | | **3 842 562 087** | 2xFS1, 2xFS2 |

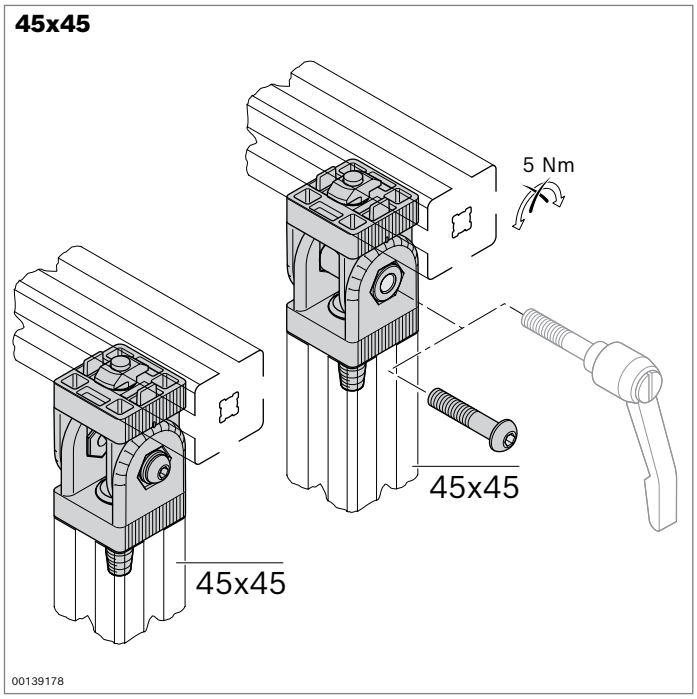
Material: Diecast zinc
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

| Clamping lever M8x40 | No. |
|---|---|
| **For joint 40x40 lockable** | **3 842 516 847** |

Material: Diecast zinc; black polymer coating



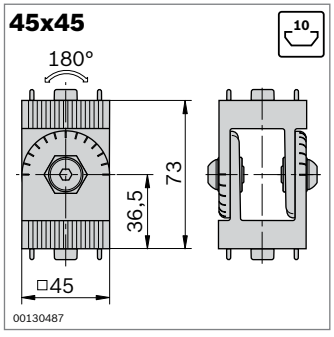



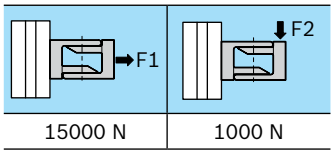


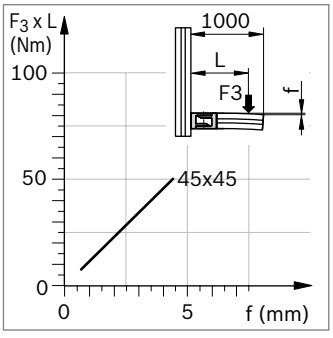

## Joint 45x45, 45x45 support

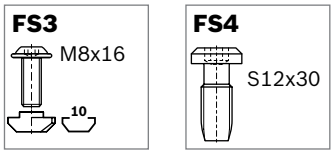
*designLINE*

- 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



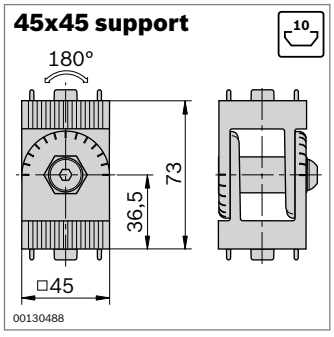



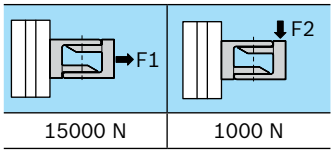



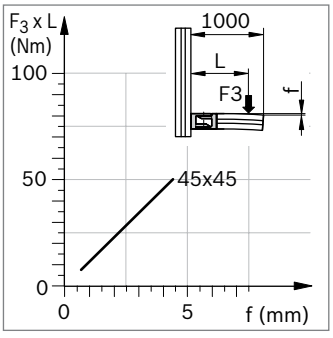



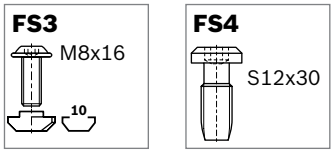

| Joint 45x45 | Slot | ESD | No. | FS |
|---|---|---|---|---|
| **Standard** | 10 | | **3 842 543 403** | 2xFS3, 2xFS4 |
| ***designLINE*** | 10 | | **3 842 538 686** | 2xFS3, 2xFS4 |

Material: Standard: Diecast aluminum
*designLINE*: painted, RAL 9006
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)



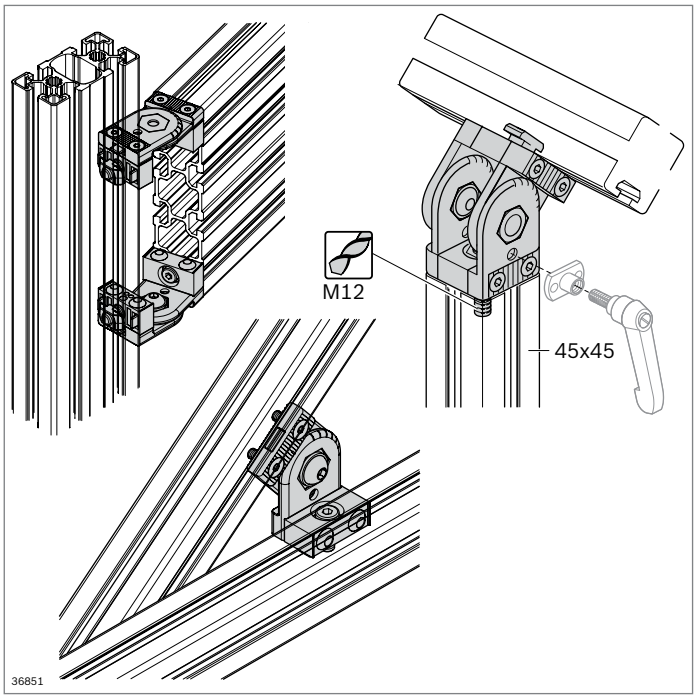




| Joint 45x45 support | Slot | ESD | No. | FS |
|---|---|---|---|---|
| **Standard** | 10 | | **3 842 543 404** | 2xFS3, 2xFS4 |
| ***designLINE*** | 10 | | **3 842 538 687** | 2xFS3, 2xFS4 |

Material: Standard: Diecast aluminum
*designLINE*: painted, RAL 9006
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

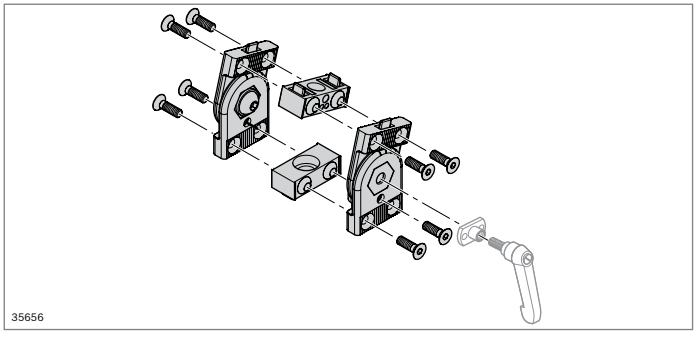
| Clamping lever M8x45 | No. |
|---|---|
| **For joint 45x45 support** | **3 842 538 607** |

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)

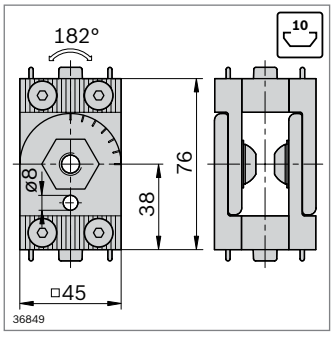


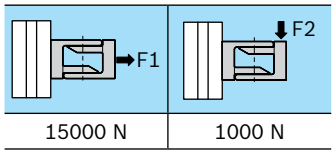

| Joint 45x45 | Slot | ESD | No. | FS |
|---|---|---|---|---|
| **Standard** | 10 | | **3 842 502 684** | 2xFS1, 2xFS2 |

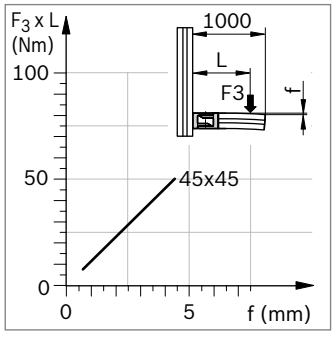
| | |
|---|---|
| Material: | Standard: Diecast zinc<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |

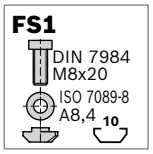
| Clamping lever M5x10 | ESD | No. |
|---|---|---|
| **For joint 45x45** | | **3 842 505 144** |

| | |
|---|---|
| Material: | Diecast zinc; black polymer coating |

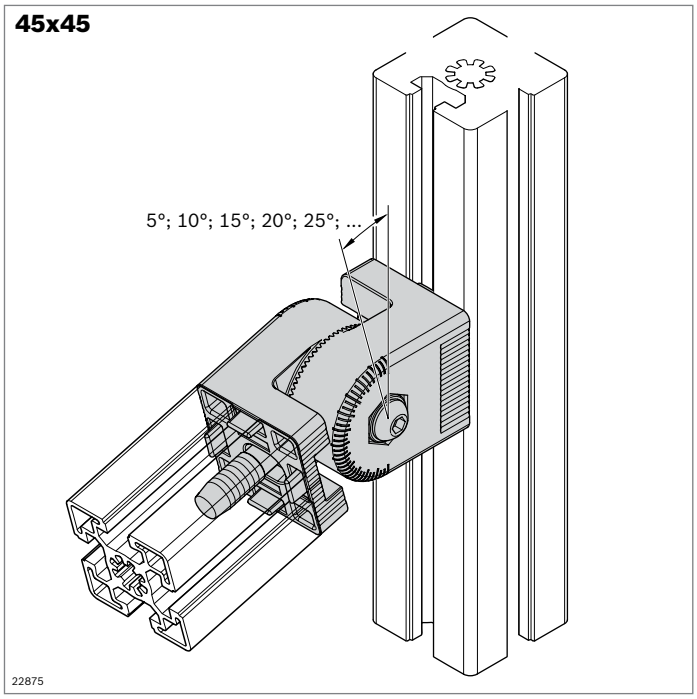


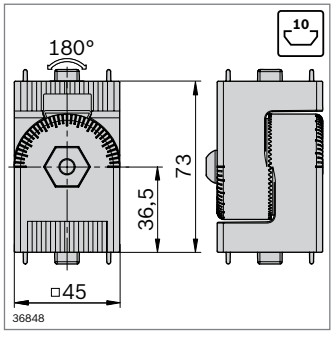



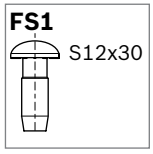



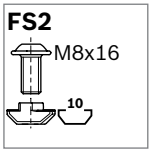



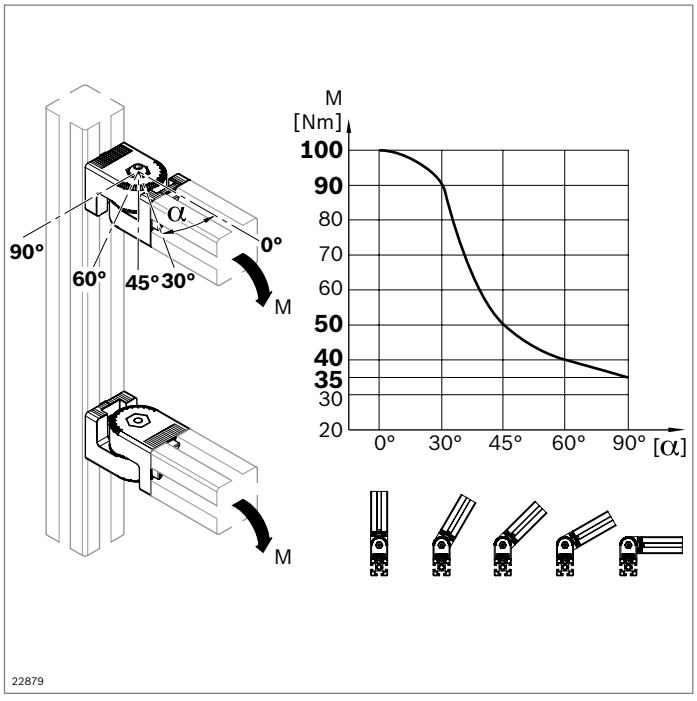



## Joint 45x45 lockable

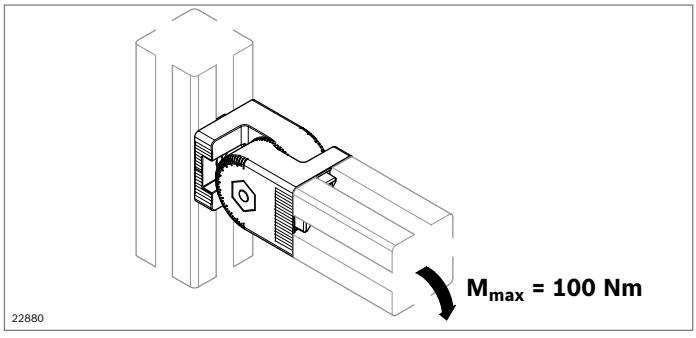
- For adjustable or rigid profile connections
- For high loads up to 100 Nm in the swivel direction
- Form fit thanks to Hirth teething
- Swivel range 180°
- Easy adjustment in the 5° modular dimensions
- Marking with a 5° graduation for easy detection of the adjustment angle
- Clamping and convenient 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)

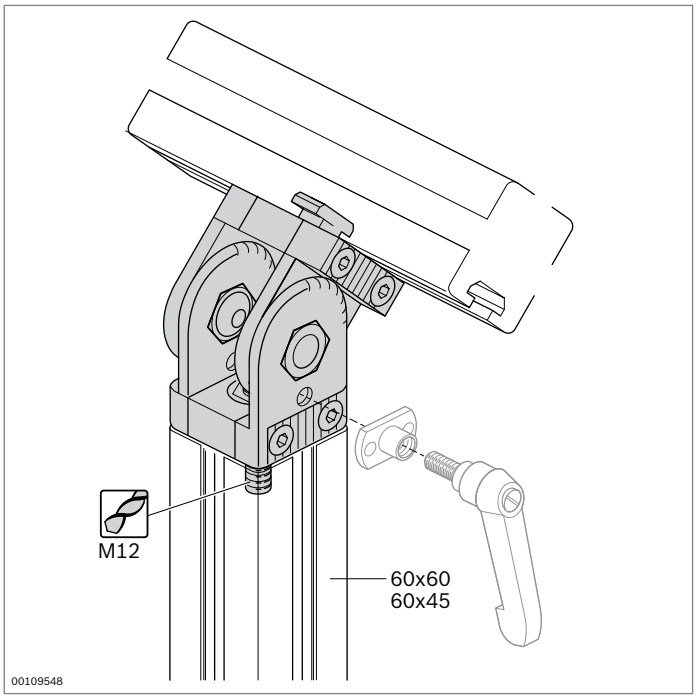
| Joint 45x45 lockable | Slot | ESD | No. | FS |
|---|---|---|---|---|
| | 10 | | **3 842 546 564** | 2xFS1, 2xFS2 |

| | |
|---|---|
| Material: | Diecast zinc<br>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 |

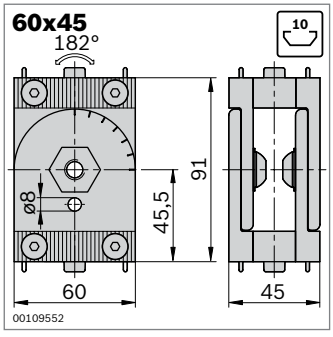


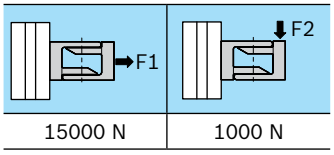


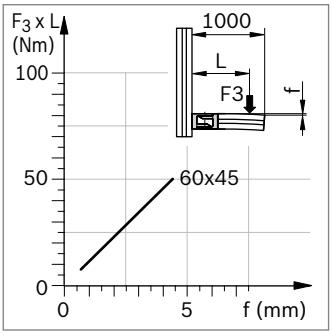

## Joint 60x45, 60x60

*designLINE*

- 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




**FS5**
DIN 7984 M12x40
ISO 7089-8 A8,4

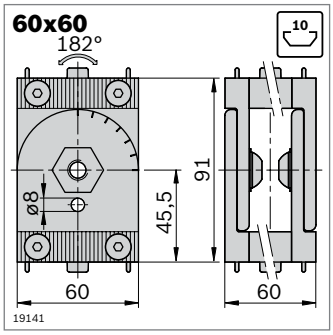
**FS6**
DIN 7984 M8x20
10

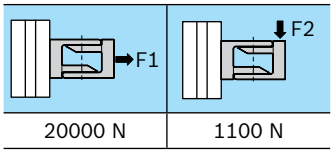
| Joint 60x45 | Slot | ESD | No. | FS |
|---|---|---|---|---|
| **Standard** | 10 | | **3 842 502 688** | 2xFS5, 2xFS6 |
| ***designLINE*** | 10 | | **3 842 539 799** | 2xFS5, 2xFS6 |

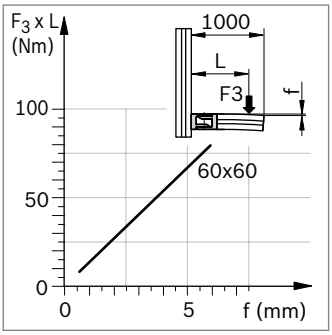
Material: Standard: Diecast zinc
*designLINE*: painted, RAL 9006
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

| Clamping lever M5x10 | No. |
|---|---|
| **For joint 60x45** | **3 842 505 144** |

Material: Diecast zinc; black polymer coating




**FS5**
DIN 7984 M12x40
ISO 7089-8 A8,4

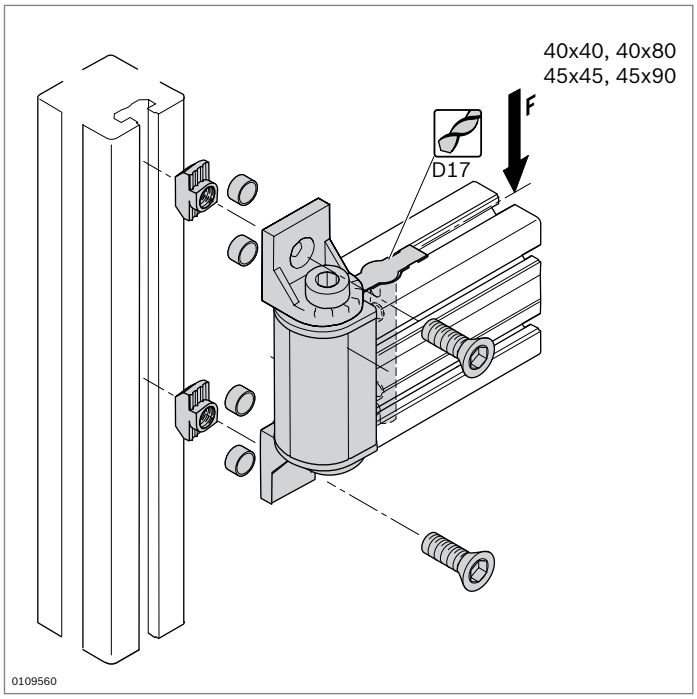
**FS6**
DIN 7984 M8x20
10

| Joint 60x60 | Slot | ESD | No. | FS |
|---|---|---|---|---|
| **Standard** | 10 | | **3 842 502 687** | 2xFS5, 2xFS6 |
| ***designLINE*** | 10 | | **3 842 539 800** | 2xFS5, 2xFS6 |

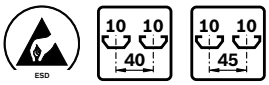
Material: Standard: Diecast zinc
*designLINE*: painted, RAL 9006
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

| Clamping lever M5x10 | No. |
|---|---|
| **For joint 60x60** | **3 842 505 144** |

Material: Diecast zinc; black polymer coating



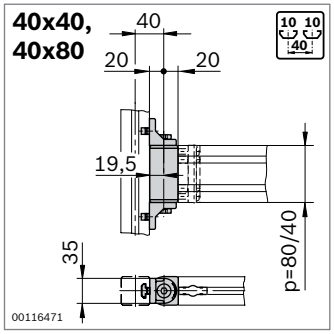

## Swivel bearing

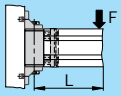



*designLINE*

- 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 x L (Nm) |
|---|---|
| 40x40 | 40 |
| 40x80 | 130 |

**FS1**

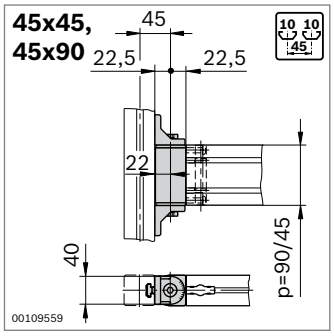


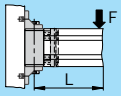

| Swivel bearing | | p (mm) | ESD | No. | FS |
|---|---|---|---|---|---|
| **40x40** | Standard | 40 | * | **3 842 554 404** | 2xFS1 |
| | *designLINE* | 40 | * | **3 842 554 412** | 2xFS1 |
| **40x80** | Standard | 80 | * | **3 842 554 406** | 2xFS1 |
| | *designLINE* | 80 | * | **3 842 554 414** | 2xFS1 |

Material: Standard: Diecast aluminum
*designLINE*: painted (RAL 9006)
Fastening material: Steel; zinc-plated
Cover cap: PP; signal gray

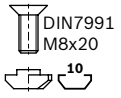
Scope of delivery: Incl. cover caps, bolt connectors, fastening material (FS)

* Swivel bearing creates conductive connection, but the cover caps included in the set are not ESD-compatible.




| Profile |  $M_{max}$ = F x L (Nm) |
|---|---|
| 45x45 | 50 |
| 45x90 | 150 |

**FS1**

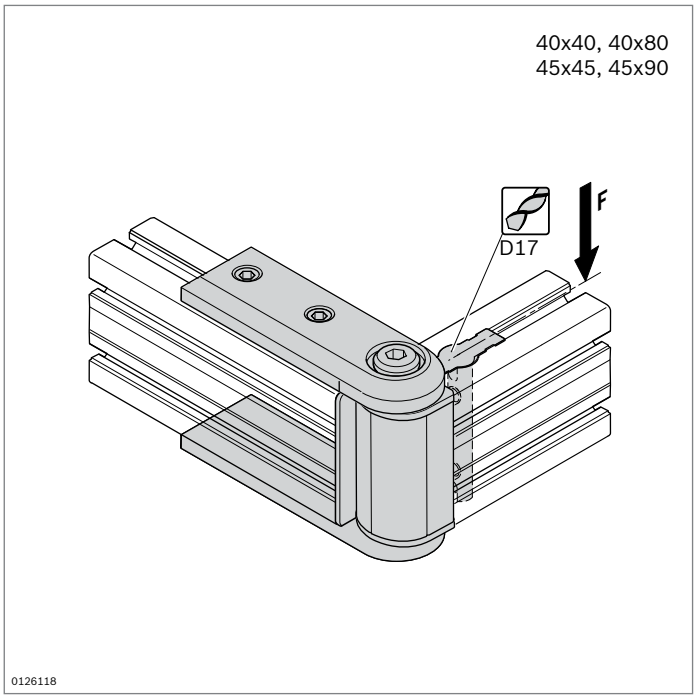



| Swivel bearing | | p (mm) | ESD | No. | FS |
|---|---|---|---|---|---|
| **45x45** | Standard | 45 | * | **3 842 554 408** | 2xFS1 |
| | *designLINE* | 45 | * | **3 842 554 416** | 2xFS1 |
| **45x90** | Standard | 90 | * | **3 842 554 410** | 2xFS1 |
| | *designLINE* | 90 | * | **3 842 554 418** | 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)

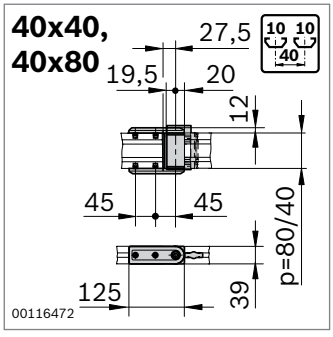
* Swivel bearing creates conductive connection, but the cover caps included in the set are not ESD-compatible.




## Supporting arm joint

*designLINE*

- 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



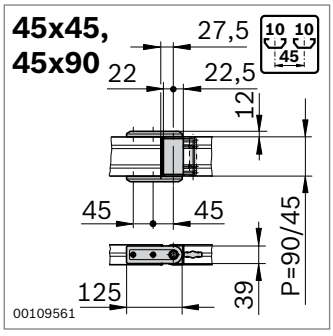

| Profile | $M_{max}$ = F x L (Nm) |
|---|---|
| 40x40 | 40 |
| 40x80 | 130 |

**FS1**
ISO4762
M6x16

| Supporting arm joint | | p (mm) | ESD | No. | FS |
|---|---|---|---|---|---|
| **40x40** | Standard | 40 | * | **3 842 554 420** | 4xFS1 |
| | *designLINE* | 40 | * | **3 842 554 428** | 4xFS1 |
| **40x80** | Standard | 80 | * | **3 842 554 422** | 4xFS1 |
| | *designLINE* | 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.



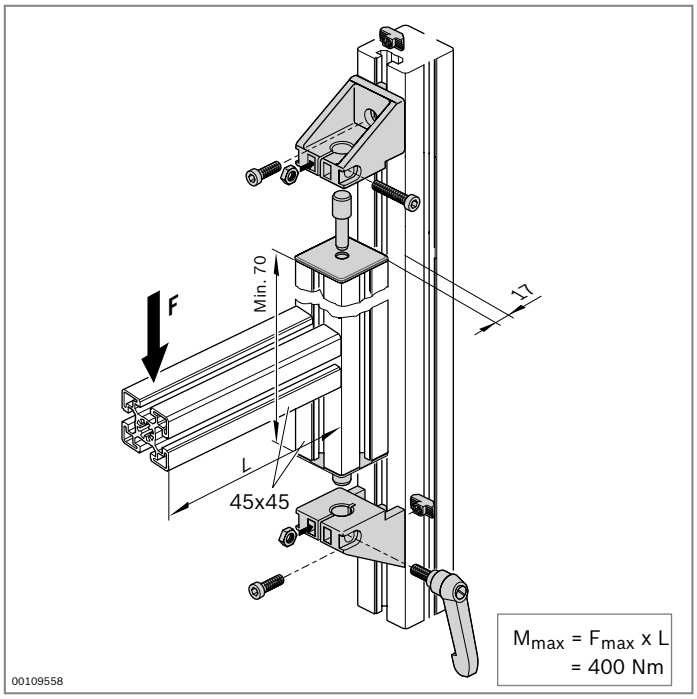

| Profile | $M_{max}$ = F x L (Nm) |
|---|---|
| 45x45 | 50 |
| 45x90 | 150 |

**FS1**
ISO4762
M6x16

| Supporting arm joint | | p (mm) | ESD | No. | FS |
|---|---|---|---|---|---|
| **45x45** | Standard | 45 | * | **3 842 554 424** | 4xFS1 |
| | *designLINE* | 45 | * | **3 842 554 432** | 4xFS1 |
| **45x90** | Standard | 90 | * | **3 842 554 426** | 4xFS1 |
| | *designLINE* | 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.

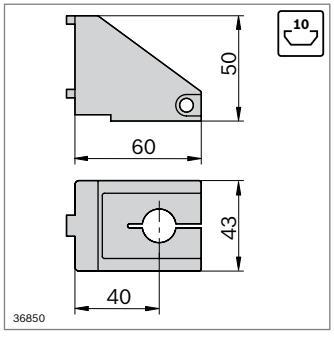


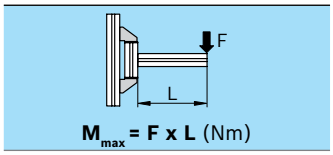

## Bearing pedestal

10 *designLINE*

- Bearing pedestal for heavy superstructures which have to be swiveled
- *designLINE* version with special silver paint (RAL 9006) for an attractive, high-quality design



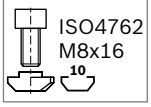



**$M_{max}$ = F x L** (Nm)

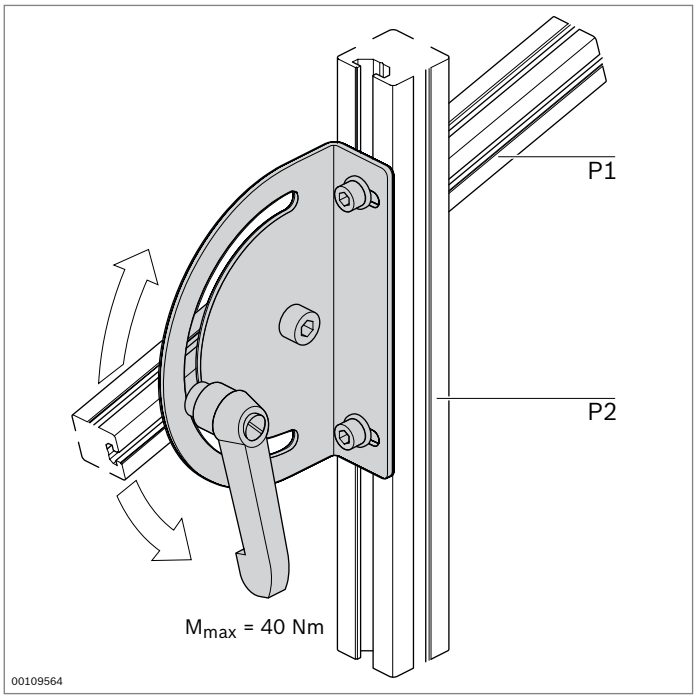
400

**FS1**




| Bearing pedestal | Slot | No. | FS |
|---|---|---|---|
| **Standard** | 10 | **3 842 547 868** | 2xFS1 |
| ***designLINE*** | 10 | **3 842 547 869** | 2xFS1 |

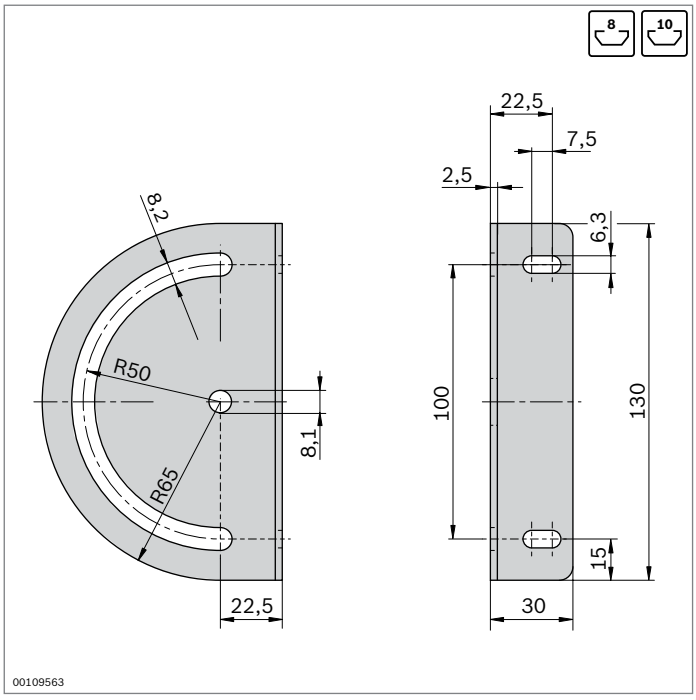
| | |
|---|---|
| Material: | Standard: Diecast zinc<br>*designLINE*: painted (RAL 9006)<br>Fastening material: Steel; zinc-plated<br>Clamping lever handle: Diecast zinc; black plastic coated<br>Cover cap: PP; signal gray |
| Scope of delivery: | Incl. fastening material (FS), 2 x cover cap, 2 x bolt, clamping lever (and additional standard parts for clamping the bearing pedestal) |




## Swivel mounting 180°

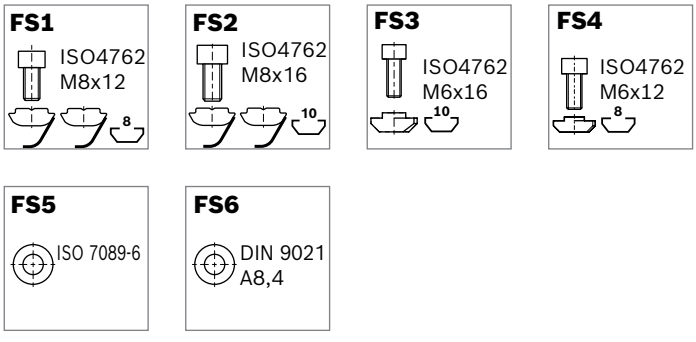


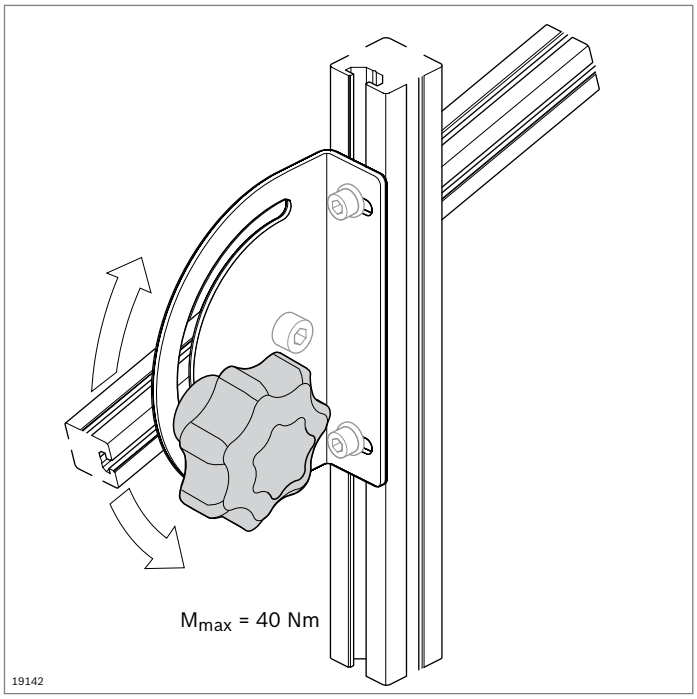

- Swivel mounting for shelves, etc. which need to be positioned at an angle of ± 90°



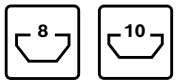

| Swivel mounting 180° | P1 / P2 | ESD | No. | FS |
|---|---|---|---|---|
| | 8 / 8 | ESD | **3 842 538 275** | FS1 |
| | 8 / 10 | | | 2xFS3 |
| | | | | 2xFS4 |
| | | | | 2xFS5 |
| | | | | 1xFS6 |
| | 10 / 8 | ESD | **3 842 538 276** | FS2 |
| | 10 / 10 | | | 2xFS3 |
| | | | | 2xFS4 |
| | | | | 2xFS5 |
| | | | | 1xFS6 |

| | |
|---|---|
| Material: | Swivel mounting: Steel; zinc-plated<br>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 |





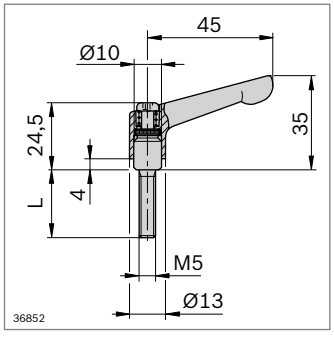

## Clamping lever, star knob



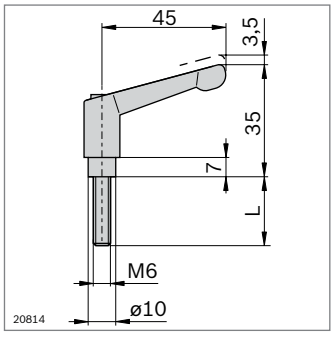

- Clamping elements for adjustable connections

Accessories:

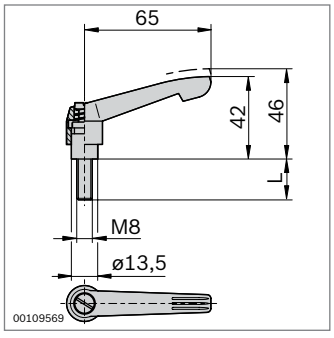
- Screws and sliding blocks; see fastening material (p. 4-14)



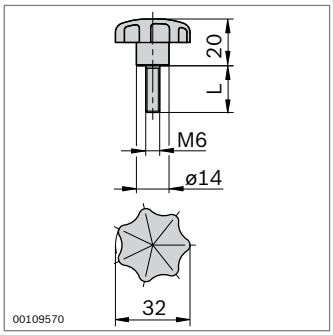

| Clamping lever M5 | | L (mm) | No. |
|---|---|---|---|
| | | 10 | **3 842 505 144** |
| Material: | Clamping lever: Diecast zinc; black plastic coated<br>Screws: Steel; bronzed | | |



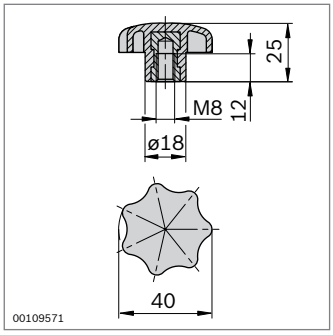

| Clamping lever M6 | | L (mm) | No. |
|---|---|---|---|
| | | 25 | **3 842 528 540** |
| | | 40 | **3 842 528 539** |
| Material: | Clamping lever: Diecast zinc; black plastic coated<br>Screws: Steel; galvanized and black chromated | | |




| 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<br>Steel parts: zinc-plated, strength class 5.8 | | |




| **Star knob M6** | **L** (mm) | **No.** |
|---|---|---|
| | 15 | **3 842 516 849** |
| | 20 | **3 842 516 850** |
| Material: | Star knob: PA; black<br>Steel parts: zinc-plated, strength class 5.8 | |



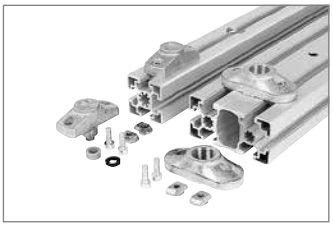

| **Star knob M8** | | **No.** |
|---|---|---|
| | | **3 842 516 851** |
| Material: | Star knob: PA; black<br>Steel parts: zinc-plated, strength class 5.8 | |

# Air-supply elements

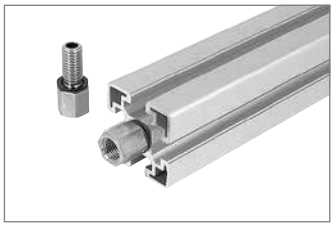




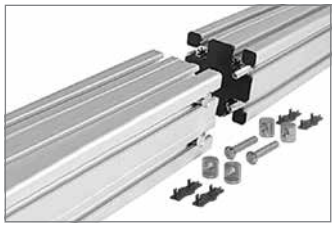
Flanged plate (p. 5-3)



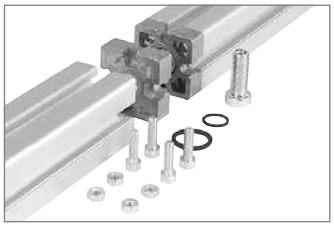
Connection piece (p. 5-4)



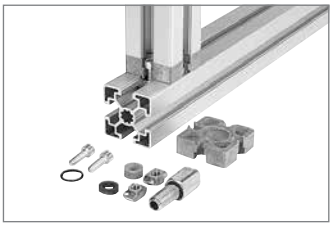
Connection screw fitting M12-1/4″ (p. 5-4)



Longitudinal end connection (p. 5-5)

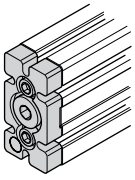


Longitudinal end connector 45 Pneu (p. 5-6)



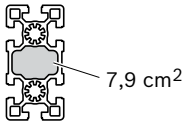
T-connector 45 Pneu (p. 5-6)

**45x90**
(p. 2-46)



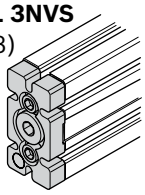
19584

**45x90**



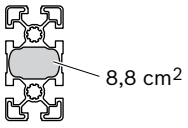

00109732

**45x90L**
**45x90L 2N**
**45x90L 3NVS**
(p. 2-43)



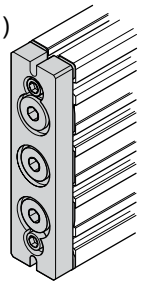
19585

**45x90L**



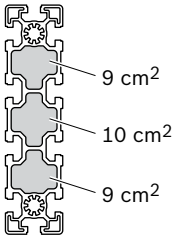

00109731

**45x180**
(p. 2-46)



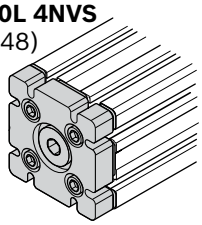
19586

**45x180**



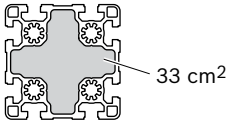

00109733

**90x90L**
**90x90L 4N**
**90x90L 4NVS**
(p. 2-48)



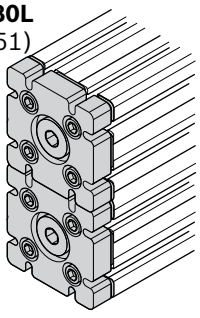
19587

**90x90L**



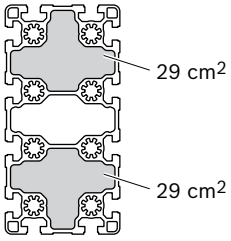

00109730

**90x180L**
(p. 2-51)



19588

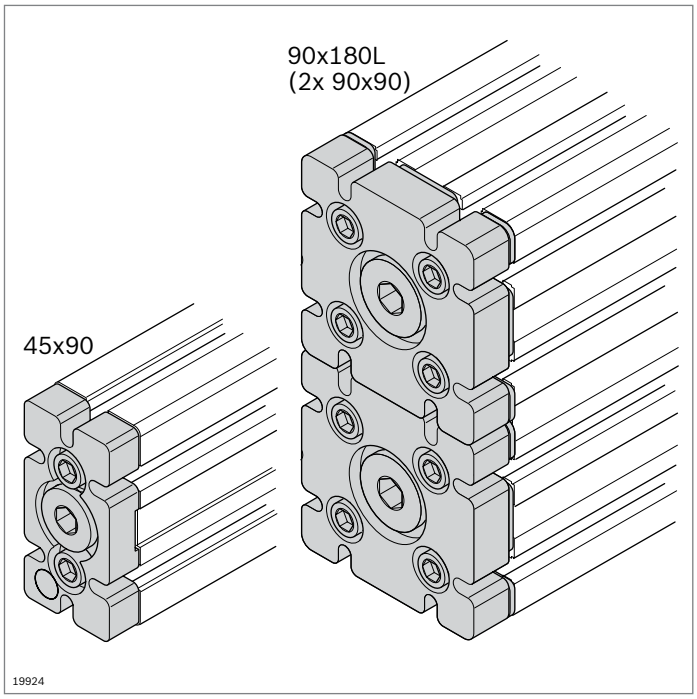
**90x180L**




00109734

## 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)



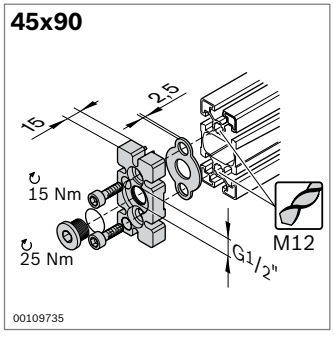

## Flanged plate




- 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



**45x90**

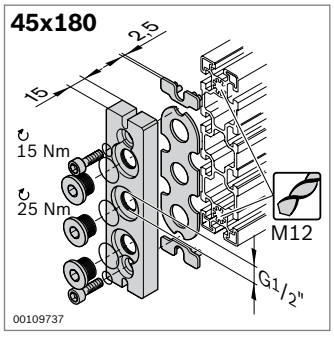



**FS1**

DIN 7984
M12x30

| Flanged plate | | No. | FS |
|---|---|---|---|
| **45x90** | | **3 842 523 097** | 2xFS1 |
| Material: | Flanged plate: Diecast aluminum<br>Seal: NBR<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | Incl. fastening material (FS),<br>screw plug, seals | | |

**45x180**

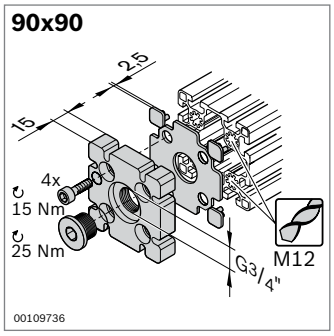



**FS2**

DIN 7984
M12x20

| Flanged plate | | No. | FS |
|---|---|---|---|
| **45x180** | 2 | **3 842 535 721** | 2xFS2 |
| Material: | Flanged plate: Aluminum<br>Seal: NBR<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | Incl. fastening material (FS), 2 x spacer,<br>3 x screw plug, seals | | |

**90x90**

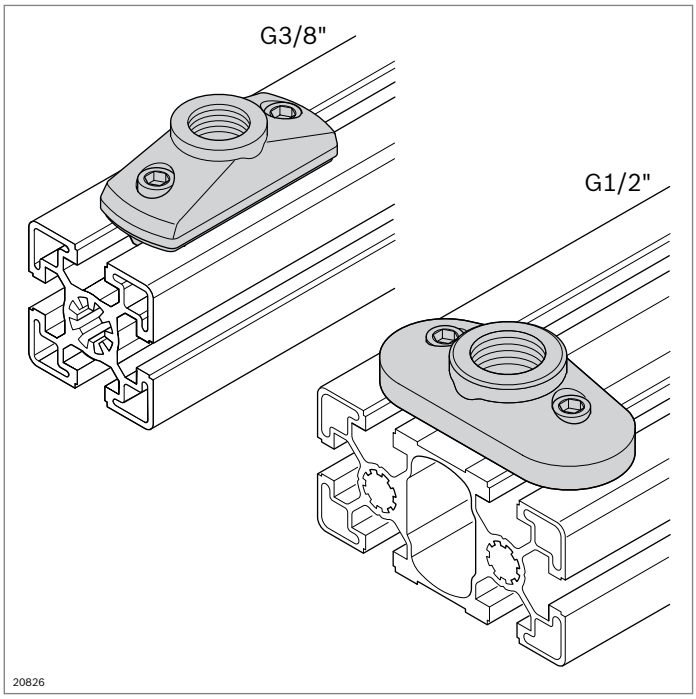



**FS1**

DIN 7984
M12x30

| Flanged plate | | No. | FS |
|---|---|---|---|
| **90x90** | | **3 842 523 098** | 4xFS1 |
| Material: | Flanged plate: Diecast aluminum<br>Seal: NBR<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | Incl. fastening material (FS), 4 x spacer,<br>screw plug, seals | | |

**Notice:** Only suitable for light profiles 90x90L and 90x180L.

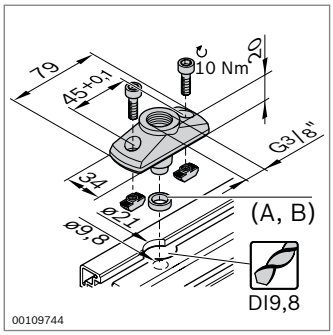


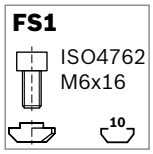

## Connection piece
## Connection screw fitting M12-1/4"

10

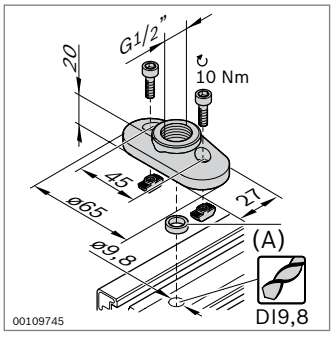
### Connection piece

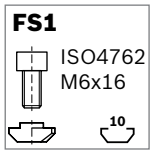
- For compressed-air intake or discharge at any point on the profile
- G3/8″ for connection at central hole
- G1/2″ for connection at hollow chamber
- Suitable for light and standard profiles
  - Profile finishing: Blind hole DI9.8; blind hole ø21 mm (drilling jig **3 842 528 574**, p. 14-3)
- For a maximum pressure ($p_{max}$) of 8 bar



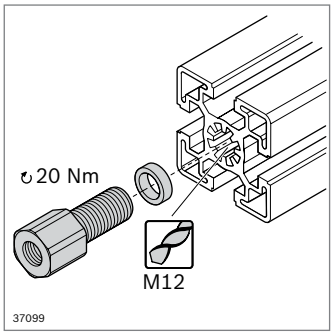



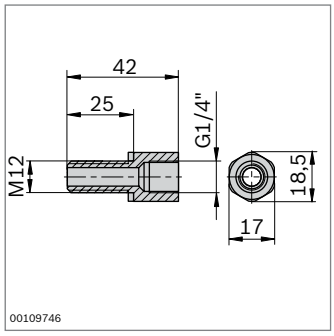

| Connection piece | | No. | FS |
|---|---|---|---|
| **G3/8"** | | **3 842 523 092** | 2xFS1 |
| Material: | Connection piece: Diecast aluminum<br>Seal: NBR | | |
| Scope of delivery: | Incl. fastening material, seals (**A**, **B**) | | |
| Accessories: | Seals **A**, **B** (p. 5-6) | | |




| Connection piece | | No. | FS |
|---|---|---|---|
| **G1/2"** | | **3 842 352 085** | 2xFS1 |
| Material: | Connection piece: Diecast zinc<br>Seal: NBR | | |
| Scope of delivery: | Incl. fastening material, seal (**A**) | | |
| Accessories: | Seal **A** (p. 5-6) | | |

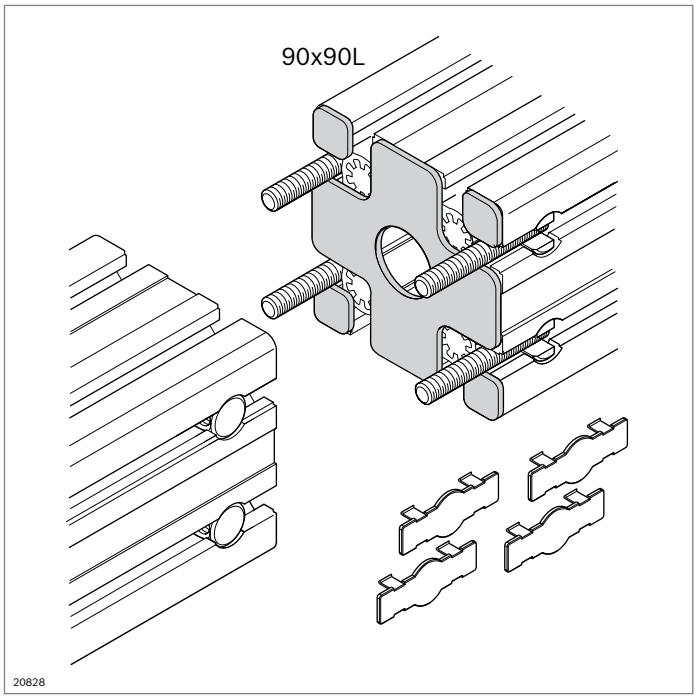



### Connection screw fitting M12-1/4"

- For screw fitting in central hole
- Profile finishing: M12
- For a maximum pressure ($p_{max}$) of 8 bar

| Connection screw fitting | | No. |
|---|---|---|
| **M12-1/4"** | 10 | **3 842 535 719** |
| Material: | Connection screw fitting: Steel; zinc-plated<br>Seal: PVC; hard | |
| Scope of delivery: | Incl. Seal | |



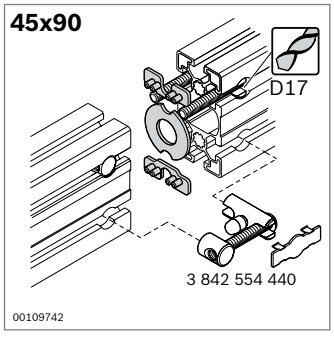

## Longitudinal end connection

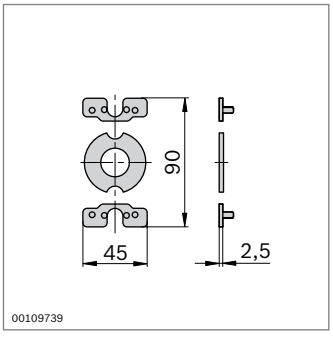
10

- 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

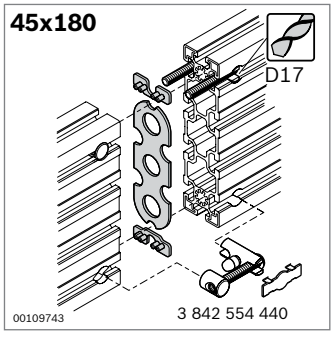
Required accessories:
Longitudinal end connector for profile connection (p. 3-63)

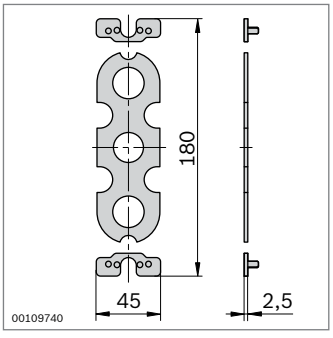
5



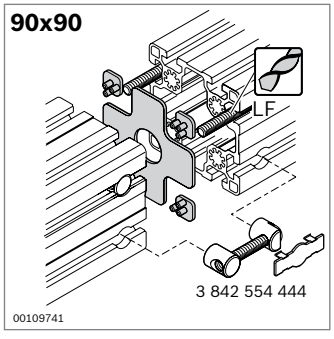



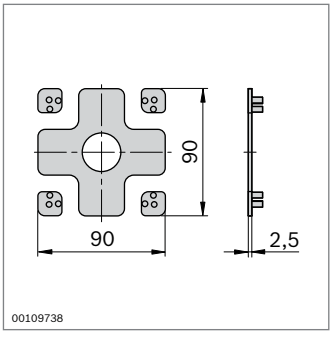

| Longitudinal end connection | | No. |
|---|---|---|
| **45x90** | | **3 842 508 087** |
| Material: | Seal: NBR<br>Spacer: PA | |
| Scope of delivery: | Seal, 2 x spacer | |



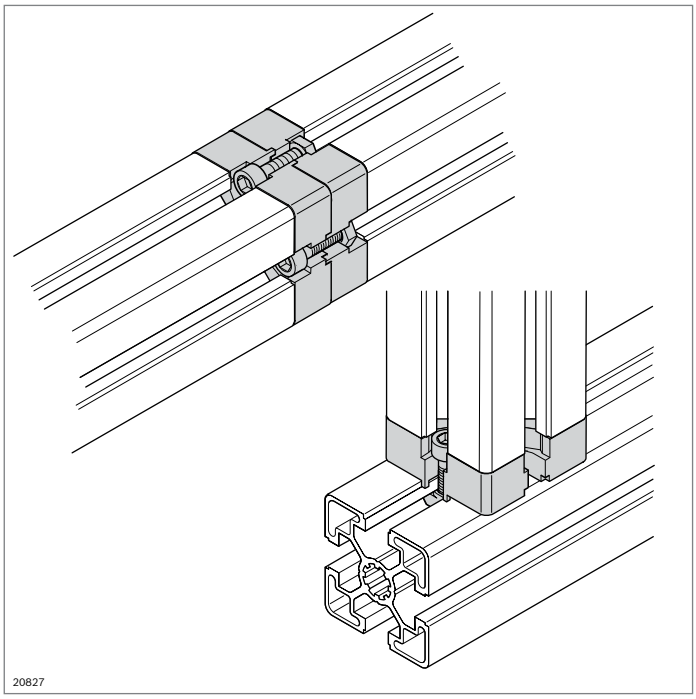

| Longitudinal end connection | | No. |
|---|---|---|
| **45x180** | | **3 842 508 088** |
| Material: | Seal: NBR<br>Spacer: PA | |
| Scope of delivery: | Seal, 2 x spacer | |




| Longitudinal end connection | | No. |
|---|---|---|
| **90x90** | | **3 842 510 145** |
| Material: | Seal: NBR<br>Spacer: PA | |
| Scope of delivery: | Seal, 4 x spacer | |

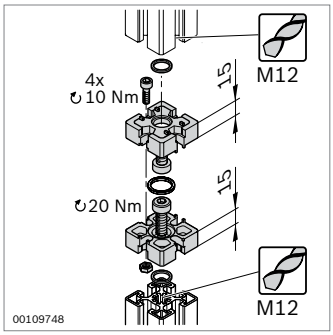
**Notice:** Only suitable for light profile 90x90L.

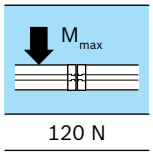


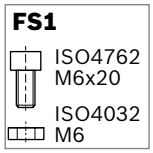

## Longitudinal end connector 45 Pneu
## T-connector 45 Pneu, seal

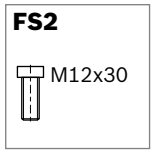



- Longitudinal end connector 45 Pneu for end face mechanical and pneumatic connections of two 45x45 or 45x45L profiles for using the central hole as a compressed-air line
- T-connector 45 Pneu for the mechanical and pneumatic connection of two 45x45 or 45x45L profiles at under a 90° angle for using the central hole as a compressed-air line
- Profile finishing: M12 in central hole; blind hole DI9.8; blind hole ø21 mm (drilling jig **3 842 528 574**, p. 14-3)
- For a maximum pressure ($p_{max}$) of 8 bar



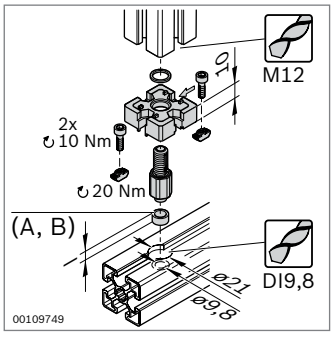



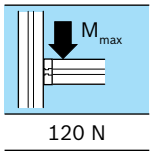



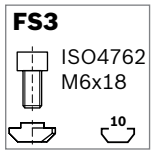




| Longitudinal end connector | No. | FS |
|---|---|---|
| **45 Pneu** | **3 842 523 094** | 4xFS1, 2xFS2 |

| | |
|---|---|
| Material: | Longitudinal end connector: Diecast aluminum<br>Seal: NBR |
| Scope of delivery: | Incl. fastening material, sealing rings |

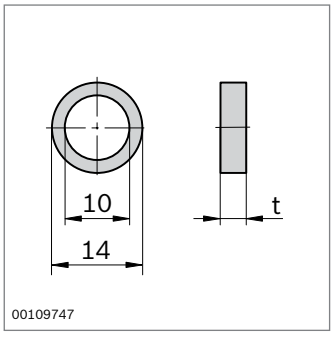



| T-connector | No. | FS |
|---|---|---|
| **45 Pneu** | **3 842 523 093** | 2xFS3 |

| | |
|---|---|
| Material: | T-connector: Diecast aluminum<br>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)

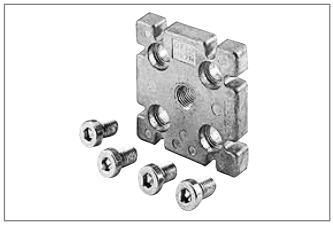


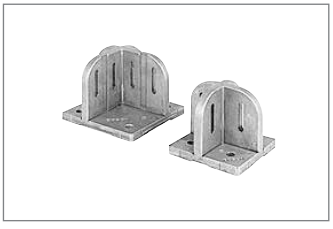
Plate (p. 6-6)



Base plate, steel (p. 6-8)



Base plate (p. 6-10)



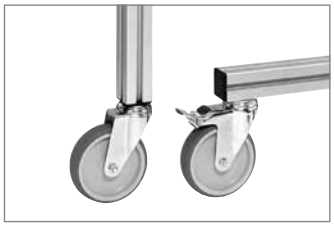
Base plate (p. 6-11)



Foot (p. 6-13)



Double wheel (p. 6-15)



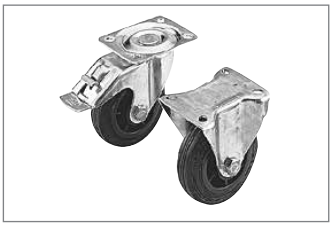
Wheel (p. 6-16)



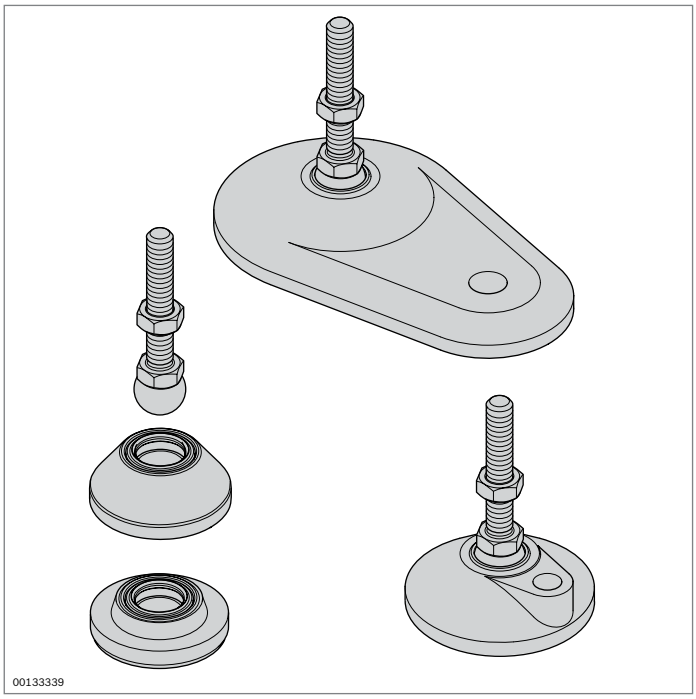
Heavy-duty wheel (p. 6-19)



Lifting wheel (p. 6-21)



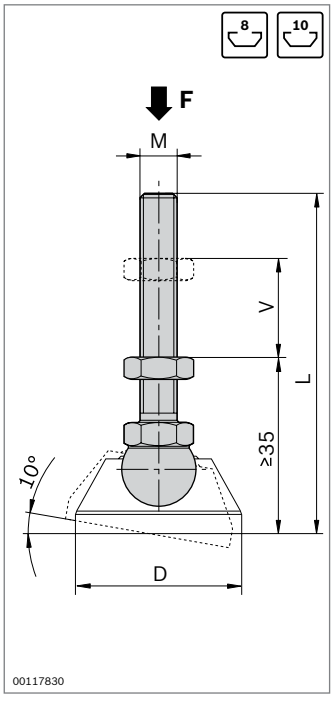
Roller with mounting flange (p. 6-23)



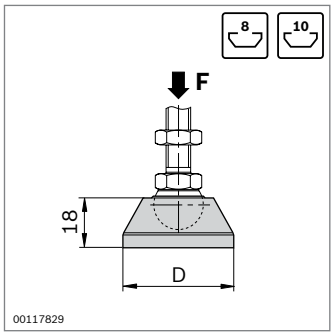

## Modular leveling feet

- 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

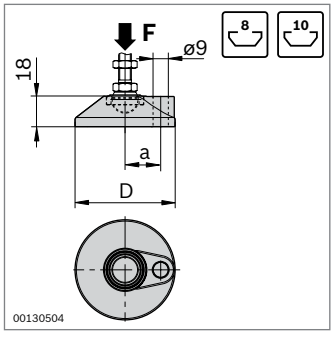
Accessories: Bearing ring (p. 6-15)
Accessories, optional: Metal bracket 103x103x37, D12.5 (p. 3-35)




| Spindle | F (N) | M | L (mm) | V (mm) | ESD | | No. |
|---|---|---|---|---|---|---|---|
| **Stainless steel** | 10000 | M8 | 75 | 20 | | 20 | **3 842 536 811** |
| | 20000 | M12 | 85 | 30 | | 20 | **3 842 536 812** |
| | 20000 | M12 | 145 | 80 | | 20 | **3 842 537 223** |
| | 20000 | M12 | 200 | 135 | | 20 | **3 842 537 225** |
| | 30000 | M16 | 85 | 20 | | 20 | **3 842 537 227** |
| | 30000 | M16 | 145 | 80 | | 20 | **3 842 537 229** |
| | 30000 | M16 | 200 | 135 | | 20 | **3 842 537 231** |
| **Steel; zinc-plated** | 10000 | M8 | 75 | 20 | | 20 | **3 842 537 220** |
| | 20000 | M12 | 85 | 30 | | 20 | **3 842 537 222** |
| | 20000 | M12 | 145 | 80 | | 20 | **3 842 537 224** |
| | 20000 | M12 | 200 | 135 | | 20 | **3 842 537 226** |
| | 30000 | M16 | 85 | 20 | | 20 | **3 842 537 228** |
| | 30000 | M16 | 145 | 80 | | 20 | **3 842 537 230** |
| | 30000 | M16 | 200 | 135 | | 20 | **3 842 537 232** |

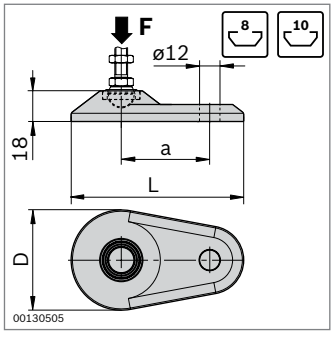



| Base plate | F (N) | D (mm) | ESD | | No. |
|---|---|---|---|---|---|
| **Stainless steel** | 20000 | 29 | ✓ | 20 | **3 842 536 694** |
| | 30000 | 39 | ✓ | 20 | **3 842 536 695** |
| | 30000 | 44 | ✓ | 20 | **3 842 536 696** |
| | 30000 | 59 | ✓ | 20 | **3 842 538 673** |
| | 30000 | 79 | ✓ | 20 | **3 842 537 206** |
| **Diecast zinc, black powder coating** | 20000 | 29 | | 20 | **3 842 538 674** |
| | 30000 | 39 | | 20 | **3 842 538 675** |
| | 30000 | 44 | | 20 | **3 842 538 676** |
| | 30000 | 59 | | 20 | **3 842 538 677** |
| | 30000 | 79 | | 20 | **3 842 538 678** |
| **PA; black** | 5000 | 29 | | 20 | **3 842 538 832** |
| | 9000 | 39 | | 20 | **3 842 538 833** |
| | 9000 | 44 | | 20 | **3 842 538 834** |
| | 9000 | 59 | | 20 | **3 842 538 835** |
| | 9000 | 79 | | 20 | **3 842 538 836** |



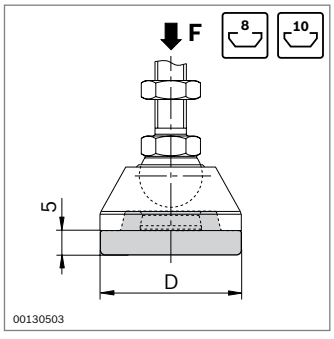

| Base plate with screw hole | F (N) | D (mm) | a (mm) | | No. |
|---|---|---|---|---|---|
| | 30000 | 59 | 21 | 20 | **3 842 538 932** |
| | 30000 | 79 | 31 | 20 | **3 842 538 934** |

Material: Diecast zinc, black powder coating



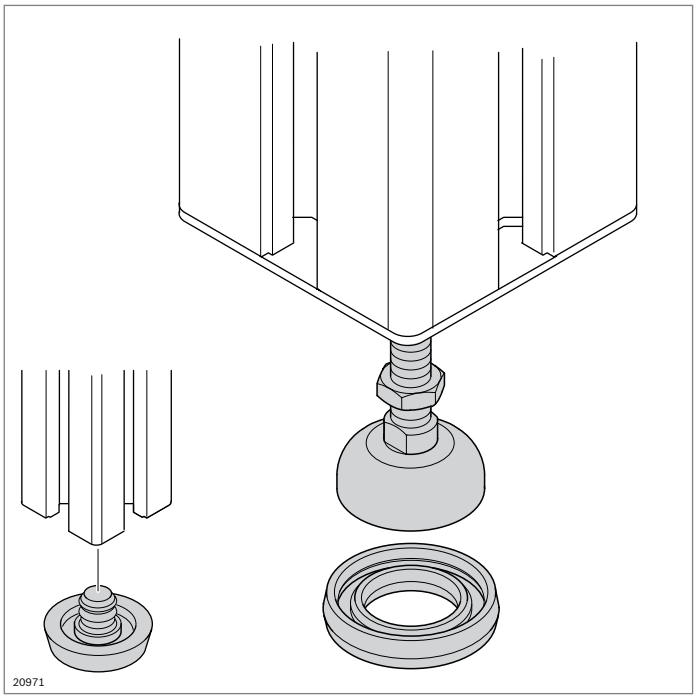

| Oval base plate with screw hole | F (N) | D (mm) | a (mm) | L (mm) | | No. |
|---|---|---|---|---|---|---|
| | 30000 | 59 | 52 | 100 | 20 | **3 842 538 679** |
| | 30000 | 79 | 65 | 130 | 20 | **3 842 538 680** |

Material: Diecast zinc, black powder coating




| Damping plate | F (N) | D (mm) | | No. |
|---|---|---|---|---|
| | 1100 | 29 | 20 | **3 842 538 555** |
| | 1600 | 39 | 20 | **3 842 538 556** |
| | 2000 | 44 | 20 | **3 842 538 557** |
| | 2500 | 59 | 20 | **3 842 538 558** |
| | 2800 | 79 | 20 | **3 842 538 559** |

Material: PUR; black




## Leveling foot, foot, damping ring

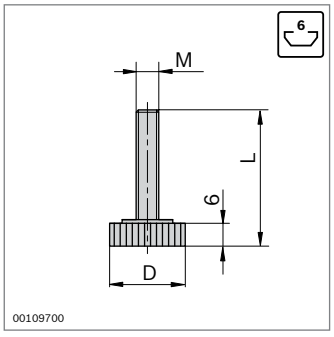
### Leveling foot

- For compensating irregularities in the floor up to 5°
- Fully assembled spindle and base plate
- Profile finishing: Threading in central hole

### Damping ring

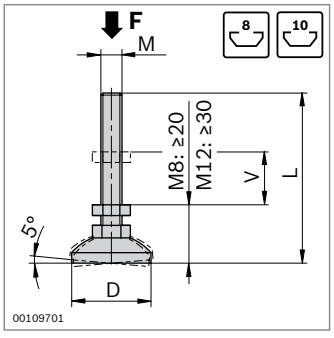
- The electrically insulating damping ring prevents the transfer of vibrations and allows a defined conduction of voltages via a set of grounding components (p. 17-2)

Accessories, optional:
Bearing ring (p. 6-15), for when cover caps with a hole are used, metal bracket 103x103x37, D12.5 (p. 3-35)



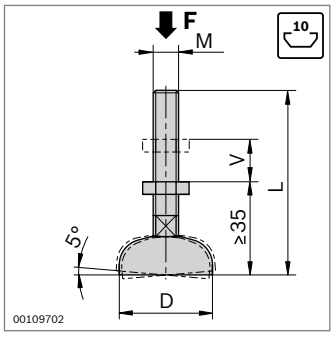

| Leveling foot | M | D (mm) | L (mm) | | No. |
|---|---|---|---|---|---|
| | M6 | 20 | 41 | 20 | **3 842 518 743** |

Material: Steel/plastic



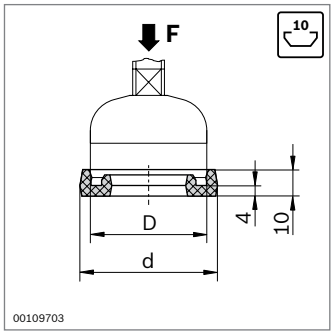

| Leveling foot | F (N) | M | D (mm) | L (mm) | V (mm) | ESD | | No. |
|---|---|---|---|---|---|---|---|---|
| | 5000 | M8 | 30 | 65 | 15 | | 20 | **3 842 502 257** |
| | 8000 | M12 | 30 | 72 | 14 | | 20 | **3 842 529 025** |

Material: Steel; zinc-plated



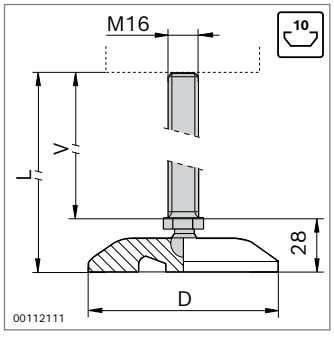

| Leveling foot | F (N) | M | D (mm) | L (mm) | V (mm) | ESD | | No. |
|---|---|---|---|---|---|---|---|---|
| | 10000 | M12 | 44 | 85 | 30 | | 20 | **3 842 352 061** |
| | 20000 | M16 | 44 | 145 | 80 | | 20 | **3 842 311 956** |
| | 10000 | M12 | 44 | 160 | 80 | | 20 | **3 842 536 470** |
| | 20000 | M16 | 44 | 200 | 135 | | 20 | **3 842 554 149** |
| | 10000 | M12 | 58 | 85 | 30 | | 20 | **3 842 511 893** |
| | 20000 | M16 | 90 | 85 | 20 | | 20 | **3 842 311 950** |
| | 20000 | M16 | 90 | 145 | 80 | | 20 | **3 842 311 951** |
| | 20000 | M16 | 90 | 200 | 135 | | 20 | **3 842 527 186** |

Material: Steel; zinc-plated



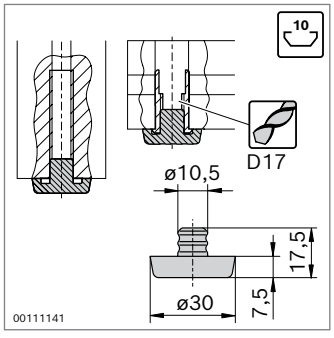

| Damping ring | F (N) | D (mm) | d (mm) | | No. |
|---|---|---|---|---|---|
| | 1600 | 30 | 39 | 20 | **3 842 529 024** |
| | 2000 | 44 | 52 | 20 | **3 842 521 817** |
| | 2500 | 58 | 66 | 20 | **3 842 522 301** |
| | 3000 | 90 | 98 | 20 | **3 842 522 303** |

Material: PUR; natural, hardness: Shore A 70-80




| Leveling foot | F (N) | M | D (mm) | L (mm) | V (mm) | | No. |
|---|---|---|---|---|---|---|---|
| | 15000 | M16 | 80 | 95 | 55 | 1 | **3 842 533 310** |

Material: Spindle: Stainless steel
Base plate: PA

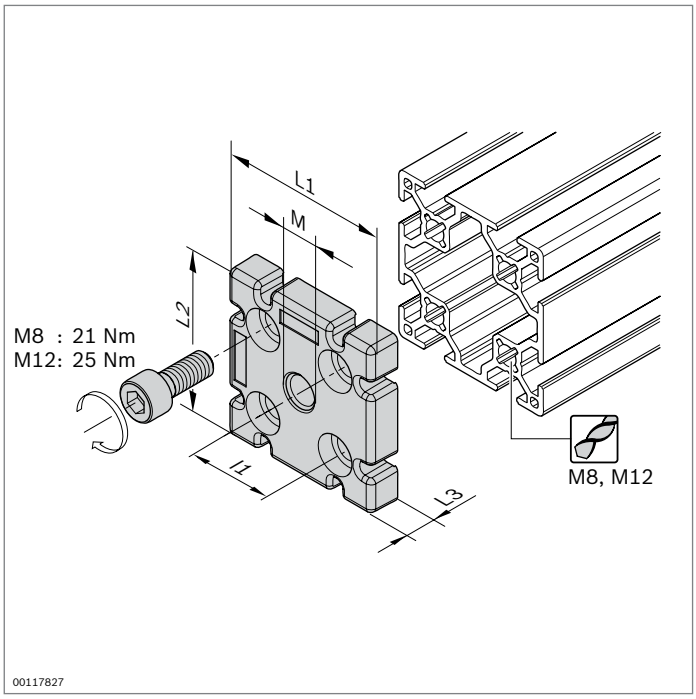



| Foot | | No. |
|---|---|---|
| | 100 | **3 842 563 296** |

Material: TPE; black

Accessories, optional:

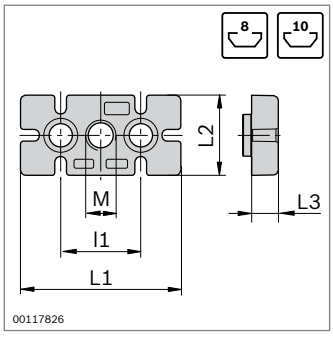
- Threaded sleeve **3 842 504 790** (p. 6-7)




## 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) | l1 (mm) | L2 (mm) | L3 (mm) | No. | FS |
|---|---|---|---|---|---|---|---|---|
| **30x60** | 8000 | M12 | 60 | 30 | 30 | 11 | **3 842 536 560** | 2xFS1 |
| **40x80** | 10000 | M12 | 80 | 40 | 40 | 15 | **3 842 536 562** | 2xFS2 |
| **45x90** | 20000 | M16 | 90 | 45 | 45 | 15 | **3 842 536 564** | 2xFS2 |

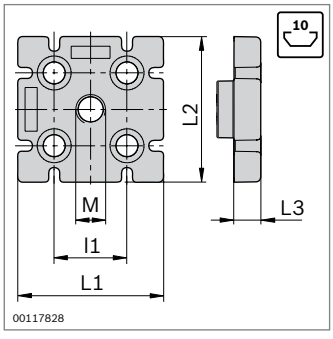
Material: Plate: Diecast aluminum
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

**FS1**

DIN 7984 M8x20

**FS2**

DIN 7984 M12x20




| Plate | F (N) | M | L1 (mm) | l1 (mm) | L2 (mm) | L3 (mm) | No. | FS |
|---|---|---|---|---|---|---|---|---|
| **60x60 8N** | 10000 | M12 | 60 | 30 | 60 | 11 | **3 842 536 566** | 4xFS1 |
| **80x80L** | 10000 | M12 | 80 | 40 | 80 | 15 | **3 842 529 416** | 4xFS2 |
| **90x90L** | 20000 | M16 | 90 | 45 | 90 | 15 | **3 842 511 352** | 4xFS2 |
| **100x100L** | 20000 | M16 | 100 | 50 | 100 | 15 | **3 842 529 417** | 4xFS2 |

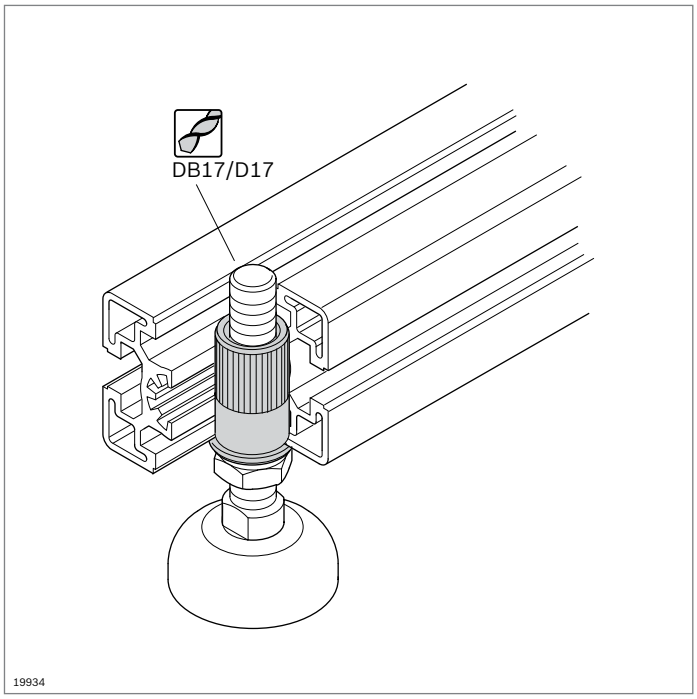
Material: Plate: Diecast aluminum
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

**FS1**

DIN 7984 M8x20

**FS2**

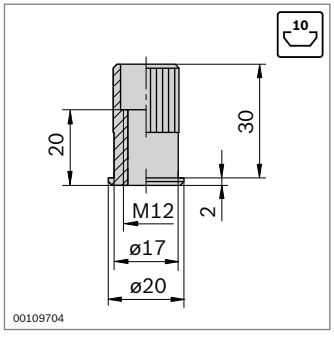
DIN 7984 M12x20



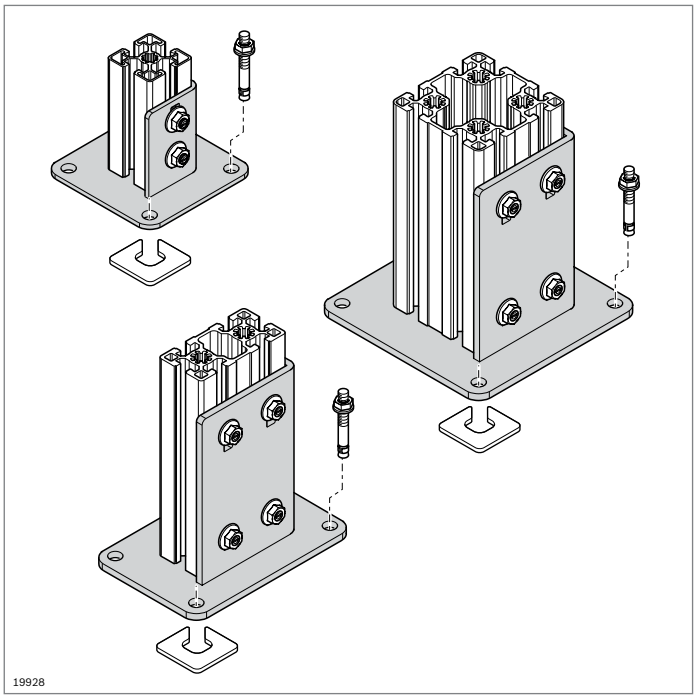

## Threaded sleeve

- For fastening leveling feet at an angle to the longitudinal profile direction
- Profile finishing:
  - Drilling of blind hole DB17
  - Through-hole D17

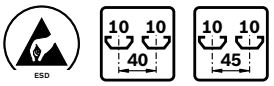





| Threaded sleeve | | F (N) | M | No. |
|---|---|---|---|---|
| | | 8000 | M12 | **3 842 504 790** |
| Material: | Steel; zinc-plated | | | |




## Base plate, steel

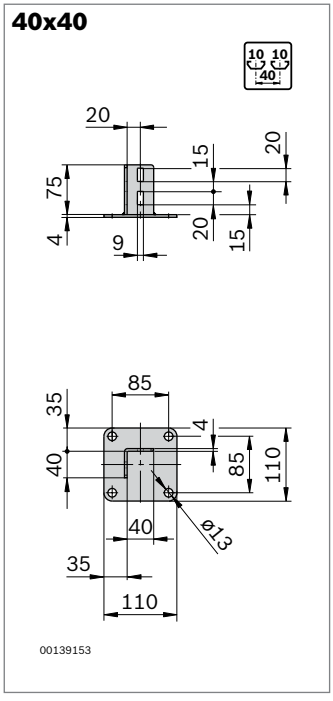



- For the construction of all kinds of leg sets
- Profile finishing: Not required

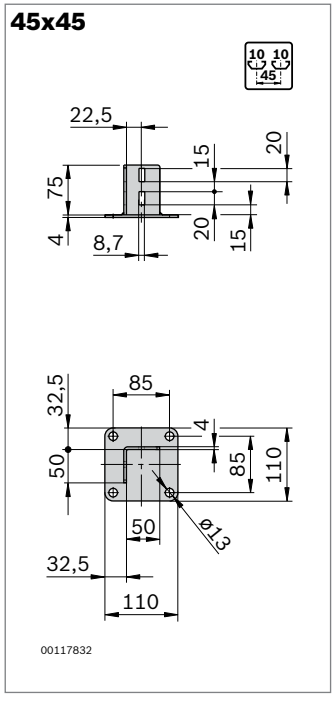
Accessories:

- 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**



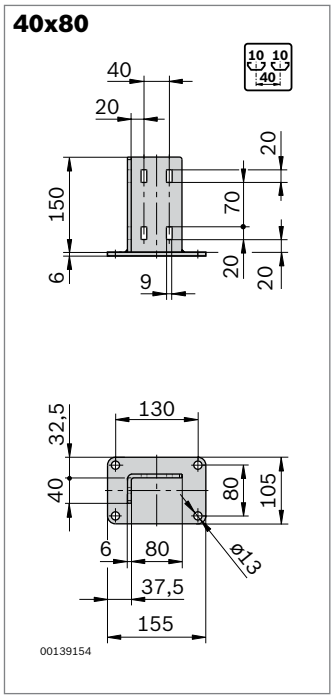

**45x45**



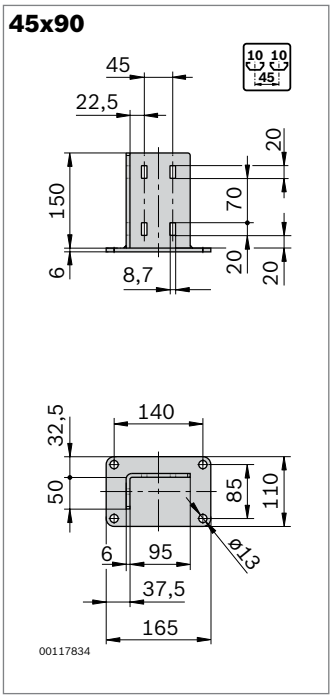

| Base plate, steel | ESD | No. |
|---|---|---|
| **40x40** | ESD | **3 842 542 667** |
| **45x45** | ESD | **3 842 536 581** |

Material: Steel; zinc-plated

**40x80**



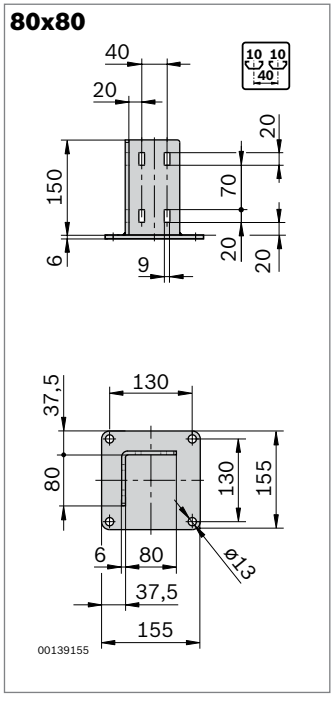

**45x90**



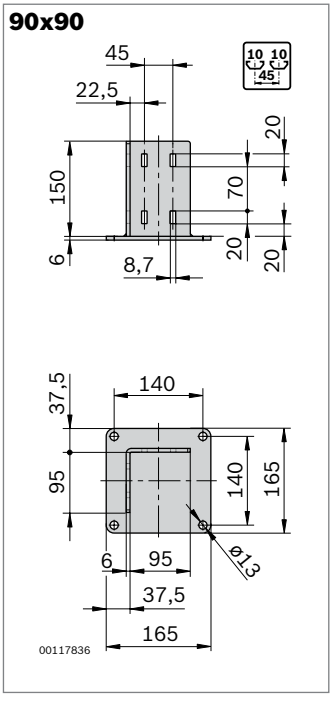

| Base plate, steel | ESD | No. |
|---|---|---|
| **40x80** | | **3 842 542 668** |
| **45x90** | | **3 842 536 207** |

Material: Steel; zinc-plated

**80x80**

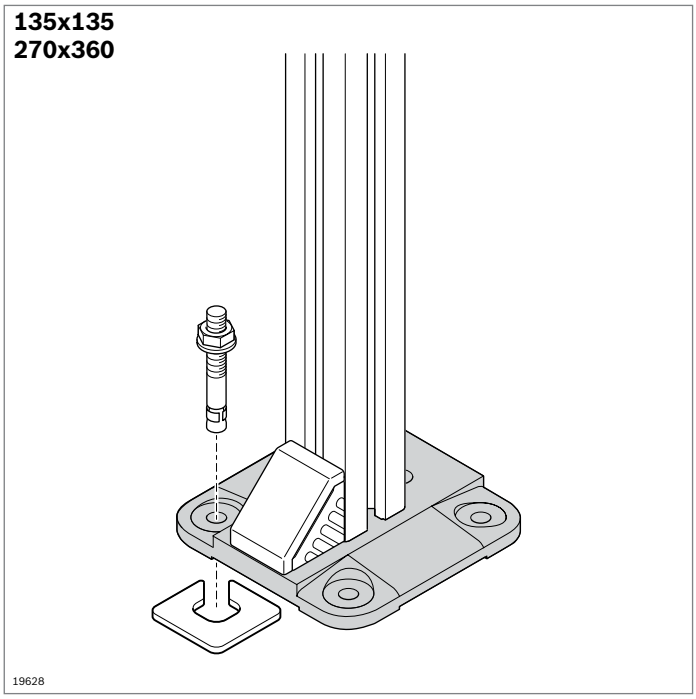



**90x90**




| Base plate, steel | ESD | No. |
|---|---|---|
| **80x80** | | **3 842 542 669** |
| **90x90** | | **3 842 536 746** |

Material: Steel; zinc-plated

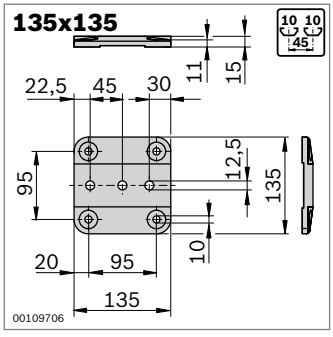



## Base plate 135x135, 270x360



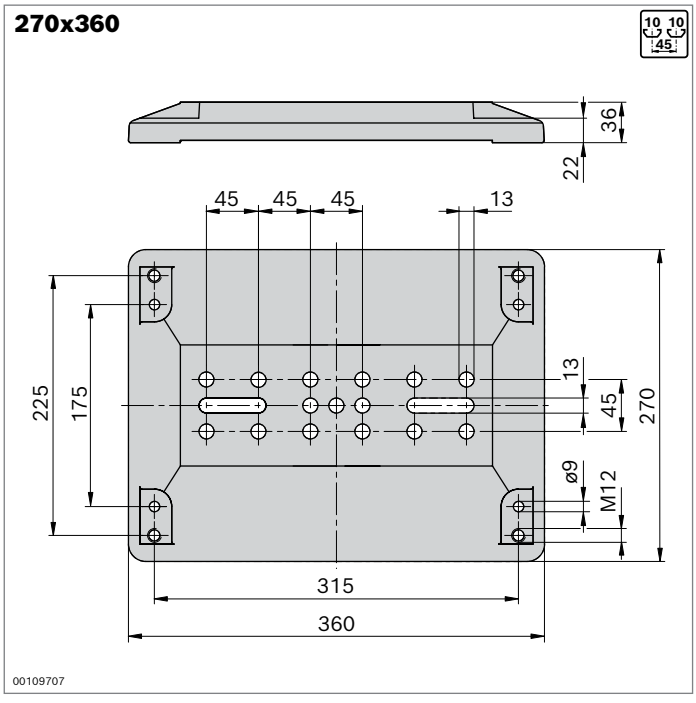

- Used in construction for supporting separating and protective walls
- Anchoring with floor dowel

Required accessories:
Bracket (p. 3-19)



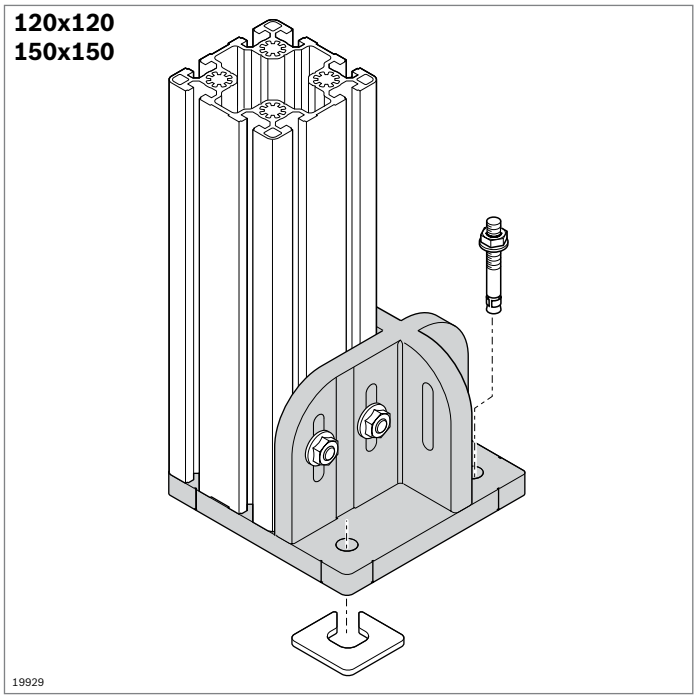

| Base plate | | ESD | No. |
|---|---|---|---|
| **135x135** | | ESD | **3 842 516 175** |
| Material: | Diecast aluminum | | |

Required accessories:
- Floor dowel **3 842 526 560** (p. 6-13)
- Washer (p. 6-14)

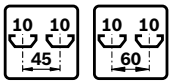



| Base plate | | No. |
|---|---|---|
| **270x360** | | **3 842 514 567** |
| Material: | Gray cast iron; black powder-coated | |

Required accessories:
- Floor dowel **3 842 540 668** (p. 6-13)
- Washer (p. 6-14)




## Base plate 120x120, 150x150

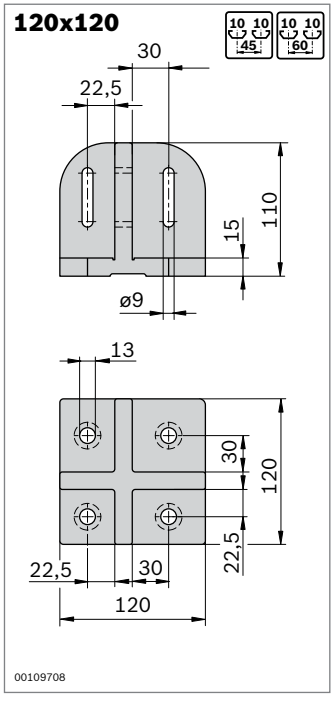


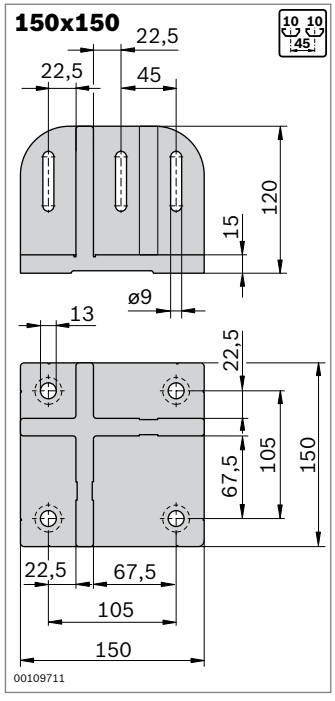

- For flush mounting of supports. No danger of tripping!
- Markings arranged at the center of the profile for precise alignment
- Anchoring with floor dowel

Accessories:

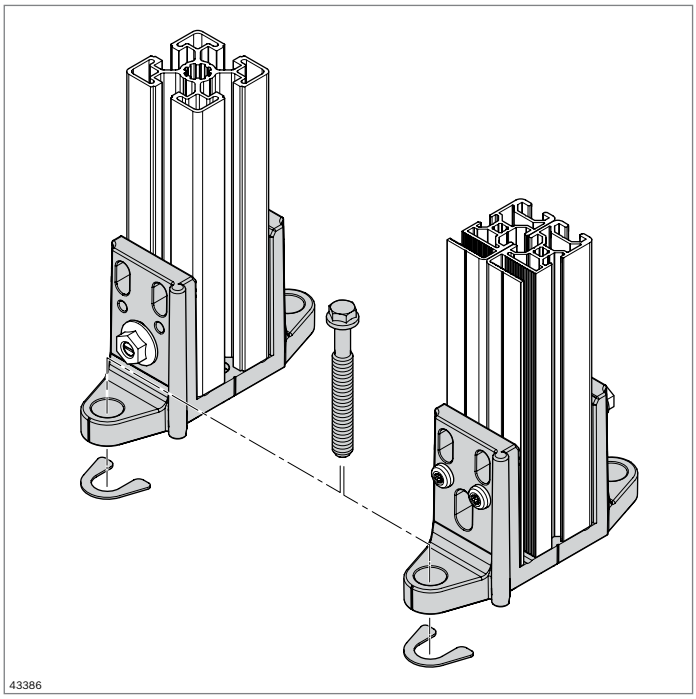
- T-bolt M8x30 **3 842 528 721** (p. 3-6)
- Flange nut M8 **3 842 345 081** (p. 3-6)
- Floor dowel **3 842 526 561** (p. 6-13)
- Washer (p. 6-14)
- Anchor bolt **3 842 564 815** (p. 6-14)



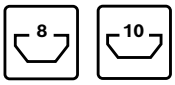



| Base plate | | ESD | No. |
|---|---|---|---|
| **120x120** | | ⚠ | **3 842 527 553** |
| **150x150** | | ⚠ | **3 842 524 469** |
| Material: | Diecast aluminum | | |



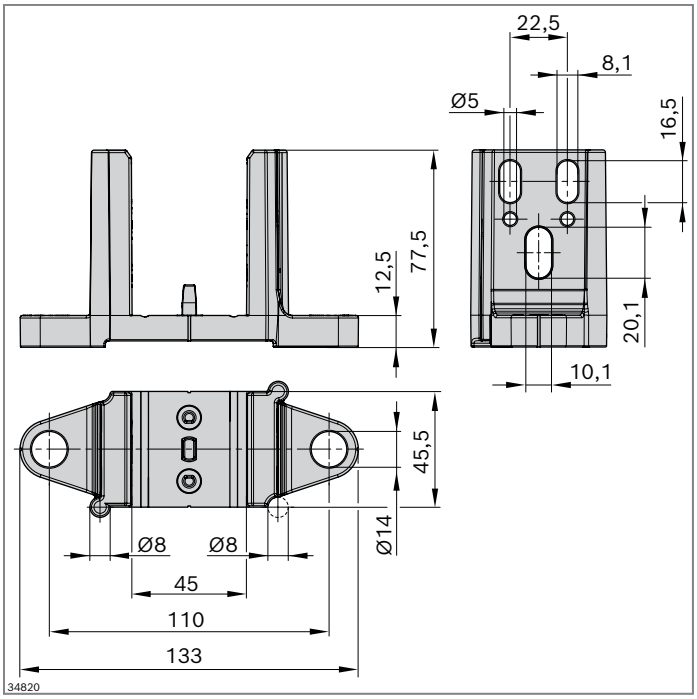

## Foot 45x45



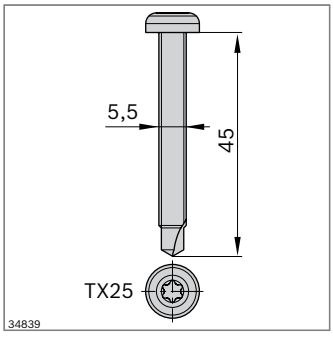

- For anchoring leg sets to the ground
- Hinge function for angular adjustment of 0-45 degrees
- For frame profile 22.5x45 or strut profile 45x45 (L)

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

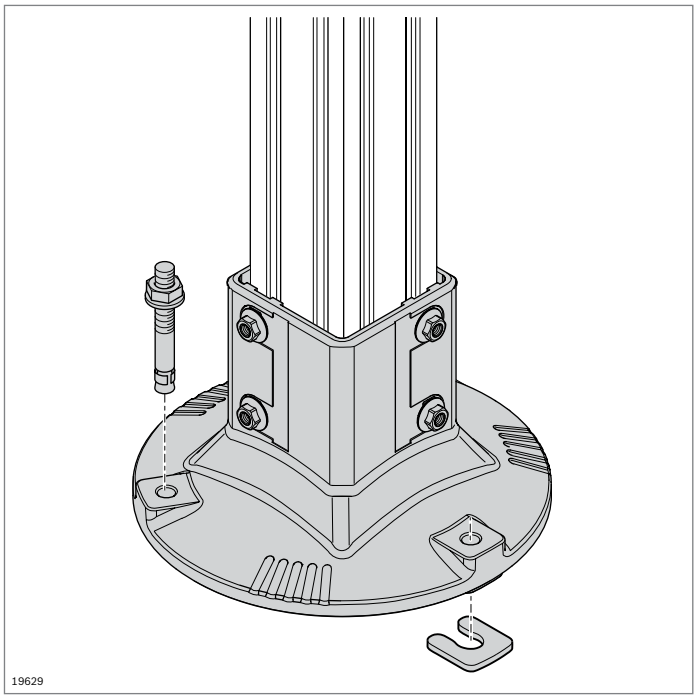



| Foot 45x45 | | ESD | Slot | No. |
|---|---|---|---|---|
| | | ⚠ | 8, 10 | **3 842 564 814** |
| Material: | Diecast zinc | | | |




- 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 | | | |



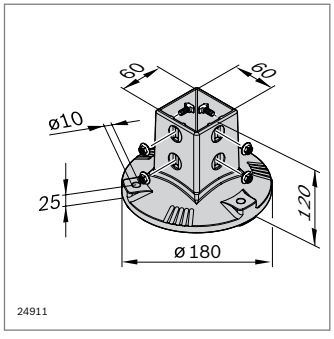

# Foot
# Floor dowel, washer

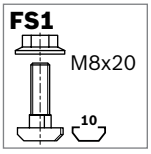
## Foot

- 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)

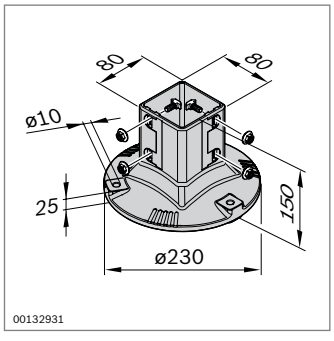
Required accessories:

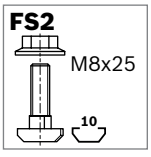
- Floor dowel **3 842 540 668**
- Washer **3 842 546 717** or **3 842 546 718**



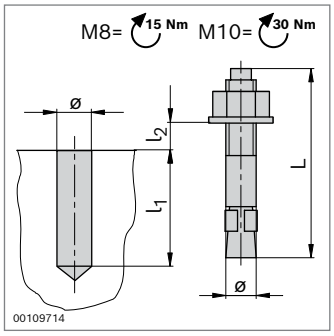




| Foot AL | | No. | FS |
|---|---|---|---|
| **60x60** | 1 | **3 842 544 875** | 4xFS1 |
| Material: | Aluminum, silver coating (RAL 9006)<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | Incl. Fastening material (FS1) | | |



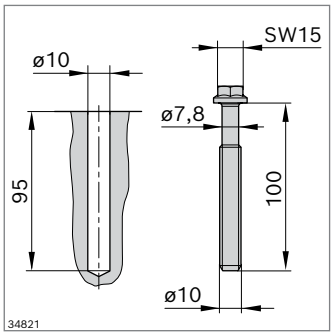

| Foot | | No. | FS |
|---|---|---|---|
| **80x80** | 1 | **3 842 540 173** | 4xFS2 |
| Material: | Aluminum, silver coating (RAL 9006)<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | Incl. Fastening material (FS1) | | |




## Floor dowel

- For anchoring the base plates

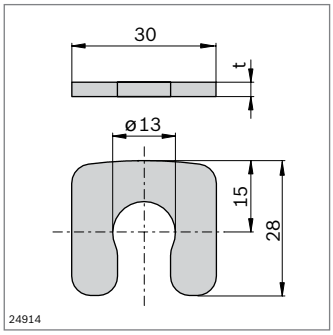
| Floor dowel | ø (mm) | L (mm) | $l_1$ (mm) | $l_{2\,max}$ (mm) | | No. |
|---|---|---|---|---|---|---|
| | 8 | 80 | 65 | 15 | 100 | **3 842 526 560** |
| | 10 | 90 | 70 | 15 | 100 | **3 842 526 561** |
| | 8 | 95 | 65 | 30 | 100 | **3 842 540 668** |
| Material: | Steel; zinc-plated | | | | | |




## 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

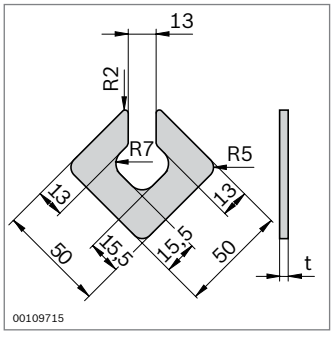
| Anchor bolt SW15-10x100 | ESD | | No. |
|---|---|---|---|
| | | 100 | **3 842 564 815** |



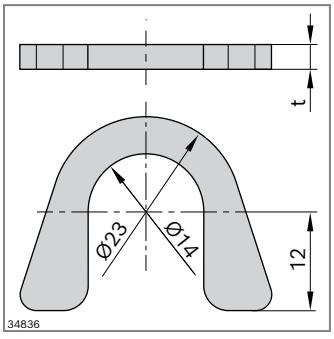

## Washer

- For leveling in case of uneven flooring

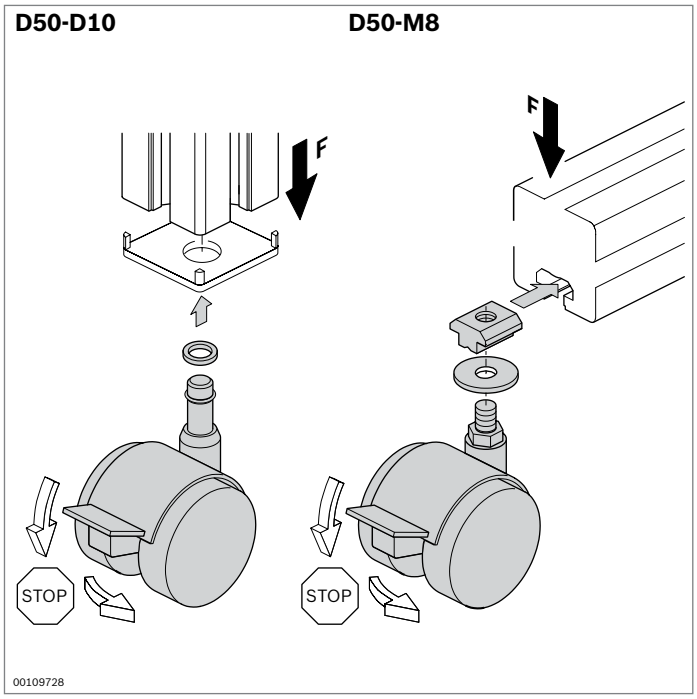
| Washer | t (mm) | | No. |
|---|---|---|---|
| **for round feet** | 1 | 100 | **3 842 546 717** |
| | 3 | 100 | **3 842 546 718** |
| Material: | Steel; stainless | | |




| 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 | | | | |

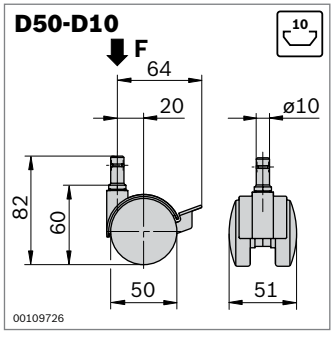



## Double wheel




- 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

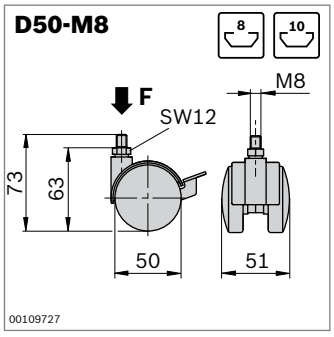


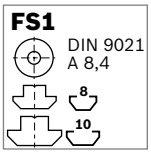



| Double wheel | F (N) | ESD | | No. |
|---|---|---|---|---|
| **D50-D10** | 400 | | 4 | **3 842 515 457** |
| | 400 | 1) | 4 | **3 842 515 459** |

1) Antistatic ≤ $10^6$ Ω according to DIN EN 12528

Material: Housing, wheel, lock: PA; black
Running surface: PU (not with ESD version)
Fastening material: Steel; zinc-plated

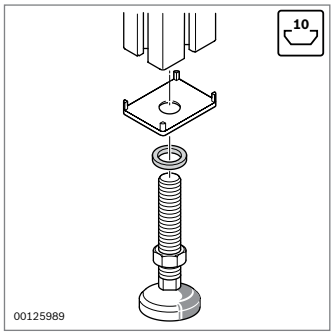


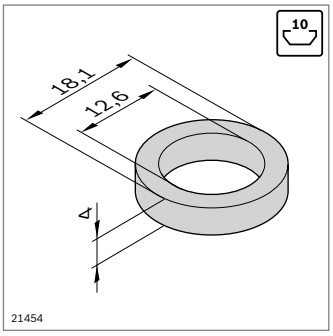




| Double wheel | F (N) | ESD | | No. | FS |
|---|---|---|---|---|---|
| **D50-M8** | 400 | | 4 | **3 842 535 669** | FS1 |
| | 400 | 1) | 4 | **3 842 535 670** | FS1 |

1) Antistatic ≤ $10^6$ Ω 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** |

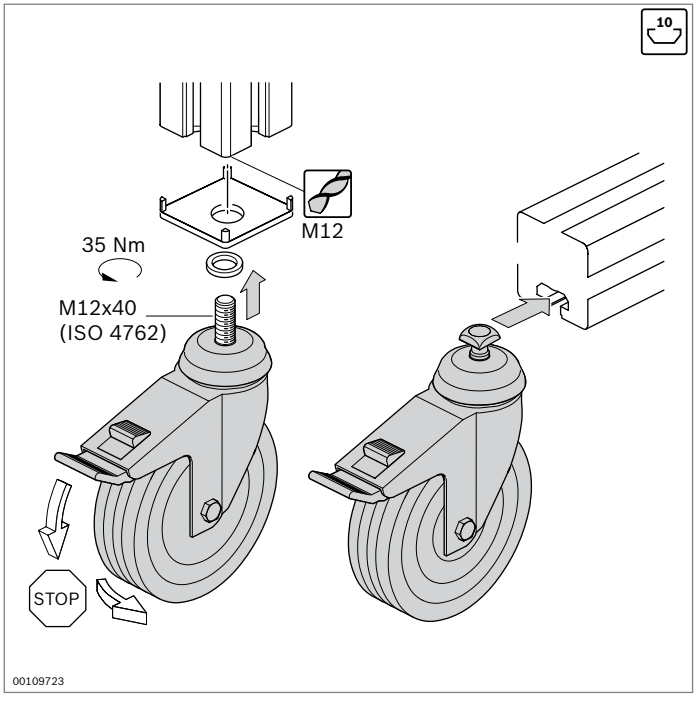
Material: Diecast zinc










## 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 $10^8$ Ω
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 ≤ $10^6$ Ω

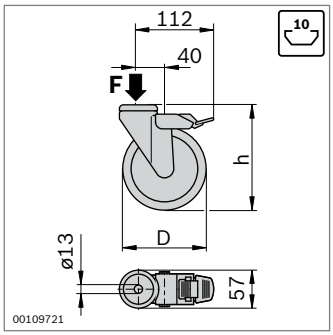
- Mounting of all wheels in the profile slot or central hole (accessories required)
- Profile finishing: Thread cutting M12 for assembly in central hole

Required accessories:

- Screw M12x40 (ISO 4762) for mounting in central hole (↻ 35 Nm)
- Bearing ring if cover cap with hole is used (p. 6-15)

## Wheel selection guide

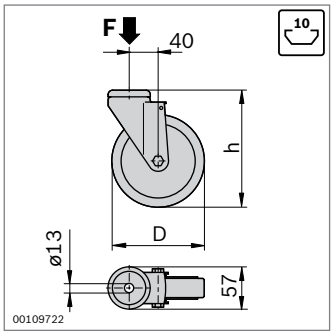
| |  |  |  |  |
|---|---|---|---|---|
| **Tread** | **Thermoplastic rubber** | **Polyamide 6** | **Solid rubber** | **Thermoplastic polyurethane** |
| **ESD** | yes / no (optional) | no | yes | yes |
| **Tread hardness** | 85° Shore A | 70° Shore D | 80° Shore A | 94° Shore A |
| **Temperature resistance** | –20 °C ... +60 °C | –25 °C ... 80 °C | –20 °C ... +60 °C | –20 °C ... +70 °C |
| **Rolling resistance** | very good | outstanding | good | very good |
| **Travel noise** | good | satisfactory | very good | good |
| **Floor protection** | good | satisfactory | very good | good |
| **Deformation elasticity Tread** | satisfactory | adequate | very good | good |
| **Tread color** | gray | black | black | gray |
| **Makes no track marks** | yes | yes | no | yes |




**FS1**
M12X30
DIN 985
M12

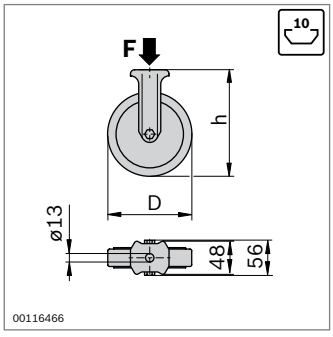
▶ Castor wheel with lock: Lock prevents the wheel from rolling or turning

| Castor wheel with lock | F (N) | D (mm) | h (mm) | ESD | No. | FS |
|---|---|---|---|---|---|---|
| | 900 | 80 | 108 | | **3 842 541 226** | FS1 |
| | 1100 | 125 | 158 | | **3 842 541 228** | FS1 |
| | 900 | 80 | 108 | ⚠ | **3 842 541 230** | FS1 |
| | 1100 | 125 | 158 | ⚠ | **3 842 541 232** | FS1 |
| | 1100 | 125 | 158 | | **3 842 515 367** | FS1 |
| Clean Room | 1000 | 125 | 158 | ⚠ | **3 842 562 055** | FS1 |
| | 600 | 80 | 108 | ⚠ | **3 842 547 836** | FS1 |
| | 800 | 125 | 158 | ⚠ | **3 842 547 838** | FS1 |




**FS1**
M12X30
DIN 985
M12

| Castor wheel | F (N) | D (mm) | h (mm) | ESD | No. | FS |
|---|---|---|---|---|---|---|
| | 900 | 80 | 108 | | **3 842 541 234** | FS1 |
| | 1100 | 125 | 158 | | **3 842 541 236** | FS1 |
| | 900 | 80 | 108 | ⚠ | **3 842 541 238** | FS1 |
| | 1100 | 125 | 158 | ⚠ | **3 842 541 240** | FS1 |
| | 1100 | 125 | 158 | | **3 842 515 366** | FS1 |
| Clean Room | 1000 | 125 | 158 | ⚠ | **3 842 562 056** | FS1 |
| | 600 | 80 | 108 | ⚠ | **3 842 547 835** | FS1 |
| | 800 | 125 | 158 | ⚠ | **3 842 547 837** | FS1 |

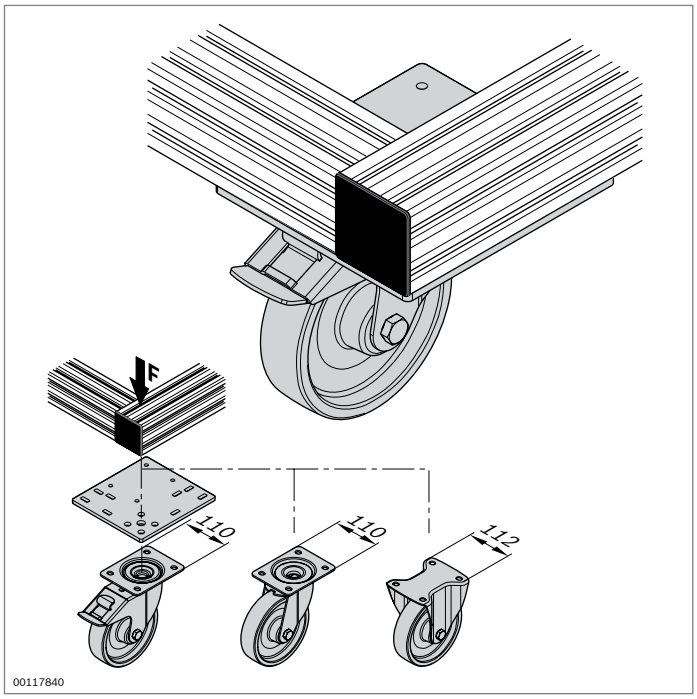



**FS1**
M12x22
DIN 985
M12

| Trestle roller | F (N) | D (mm) | h (mm) | ESD | No. | FS |
|---|---|---|---|---|---|---|
| | 900 | 80 | 108 | ⚠ | **3 842 541 242** | FS1 |
| | 1100 | 125 | 158 | ⚠ | **3 842 541 244** | FS1 |
| | 600 | 80 | 108 | ⚠ | **3 842 547 839** | FS1 |
| | 800 | 125 | 158 | ⚠ | **3 842 547 840** | FS1 |

Material:

- Thermoplastic rubber
- Reinforced PA
- Clean Room: Gray TPU, housing: Steel; chrome-plated
- Solid rubber
- ⚠: Conductive, conduction resistance ≤$10^6$ Ω



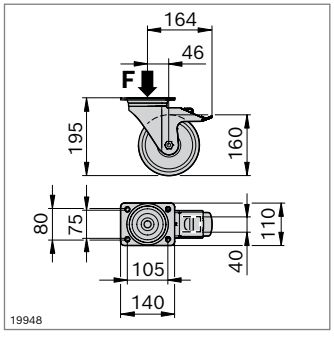

## Heavy-duty wheel



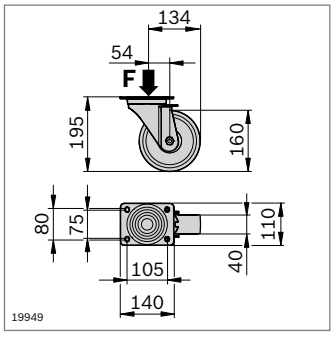

- Heavy-duty wheel with mounting flange
- Available as a castor wheel with lock, a castor wheel, and a trestle roller
- Heavy-duty, particularly suited for workshop applications
- Wheels with excellent running properties

Required accessories:

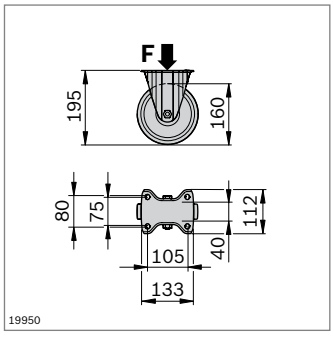
- Screw M10x16 (ISO 4762), washer ISO 7089-10, lock washer 10FSt for fastening to the screw-on plate
- T-bolt, flange nut, central bolt M12 or S12 for fastening the screw-on plate to the profile frame



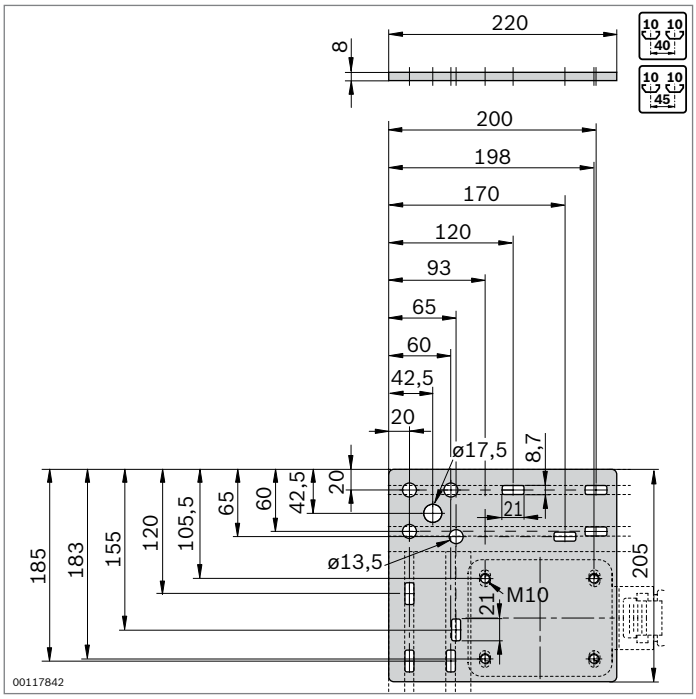

| **Castor wheel with lock** | | **F** (N) | **No.** |
|---|---|---|---|
| | | 3000 | **3 842 562 057** |
| Material: | Housing: Steel; zinc-plated<br>Wheel: TPU, hardness 94 Shore A, gray | | |




| **Castor wheel** | | **F** (N) | **No.** |
|---|---|---|---|
| | | 3000 | **3 842 562 058** |
| Material: | Housing: Steel; zinc-plated<br>Wheel: TPU, hardness 94 Shore A, gray | | |

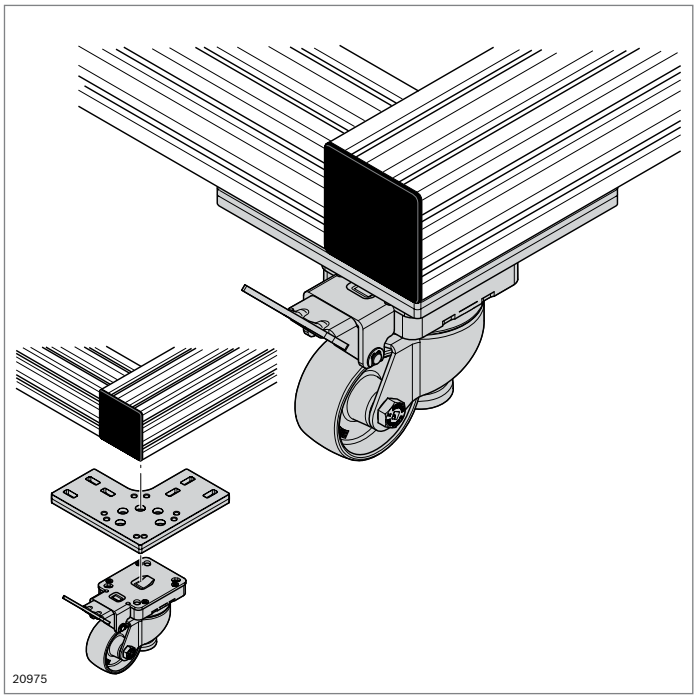


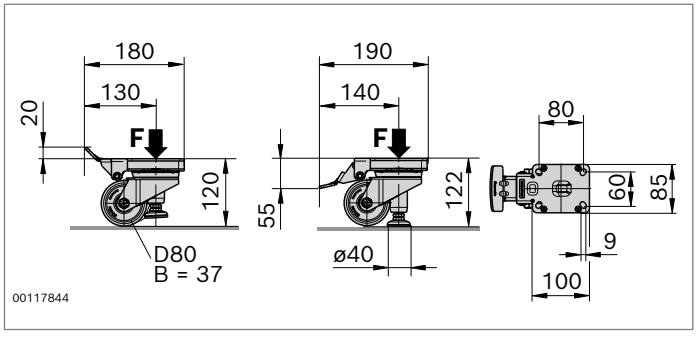

| **Trestle roller** | | **F** (N) | **No.** |
|---|---|---|---|
| | | 3000 | **3 842 562 059** |
| Material: | Housing: Steel; zinc-plated<br>Wheel: TPU, hardness 94 Shore A, gray | | |

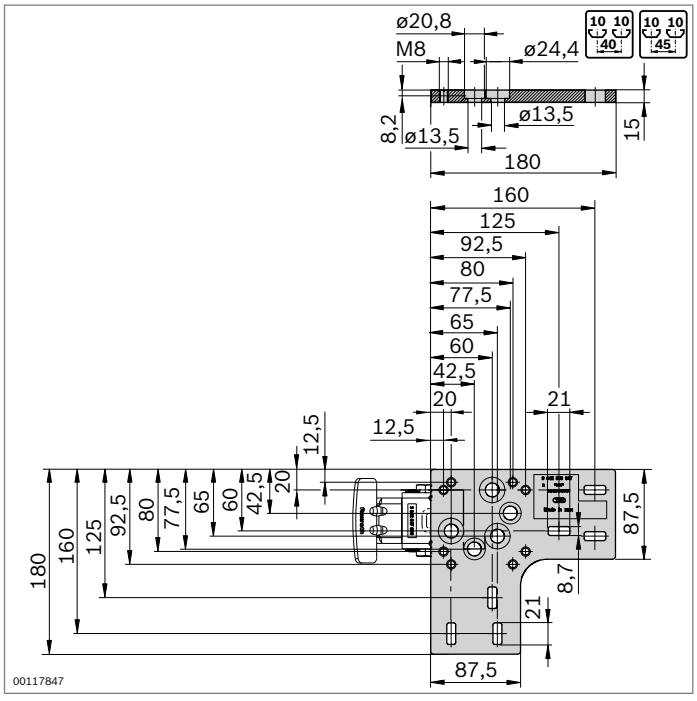



- Screw-on plate for attachment to 40 mm or 45 mm profiles

| Screw-on plate | | | No. |
|---|---|---|---|
| | | 4 | **3 842 536 701** |
| Material: | Steel; zinc-plated | | |




## Lifting wheel



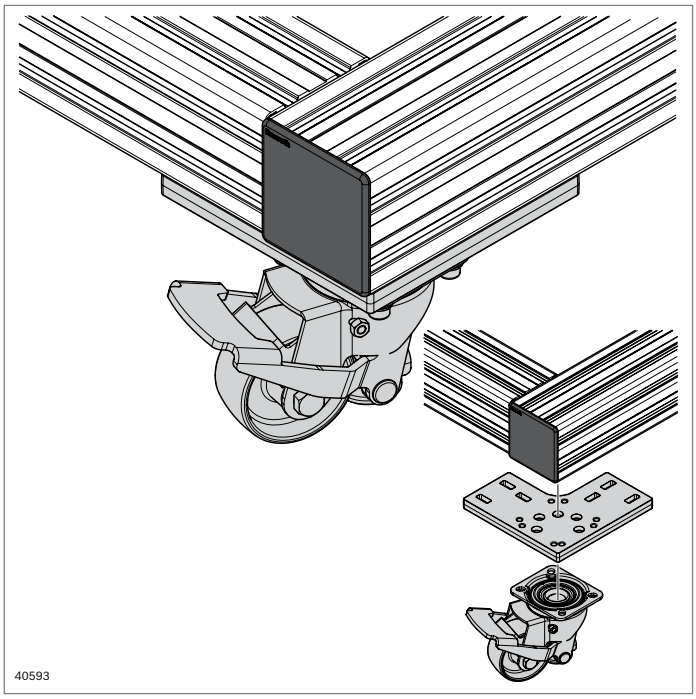

- Steerable lifting wheel
- The wheel turns into a stable base simply by engaging the stop lever
- Screw-on plate for mounting the lifting wheel
- With “Ideal-Stop”: Locking lever does not swivel with the castor wheel but remains in the defined position.
  The locking lever is fixed in position on the frame by means of the screw-on plate, and the castor wheel moves freely

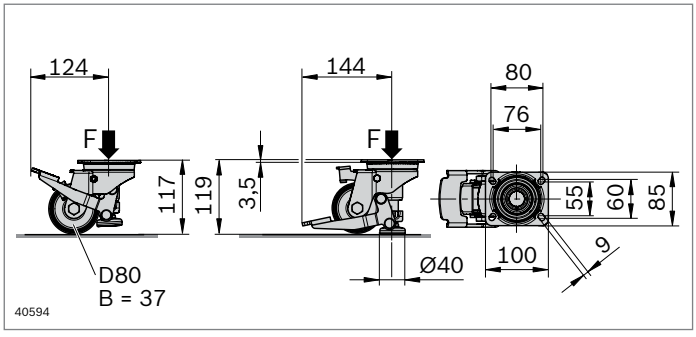
Required accessories:

- 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

| **Lifting wheel** | | **F** (N) | **No.** |
|---|---|---|---|
| | | 2300 | **3 842 547 890** |
| Material: | Wheel: PA6, natural white<br>Housing: Steel; zinc-plated<br>Base plate: Rubber, gray | | |

| **Screw-on plate** | | | **No.** |
|---|---|---|---|
| | | 4 | **3 842 553 967** |
| Material: | Diecast aluminum | | |




## Lifting wheel – Rotatable Pedal ESD

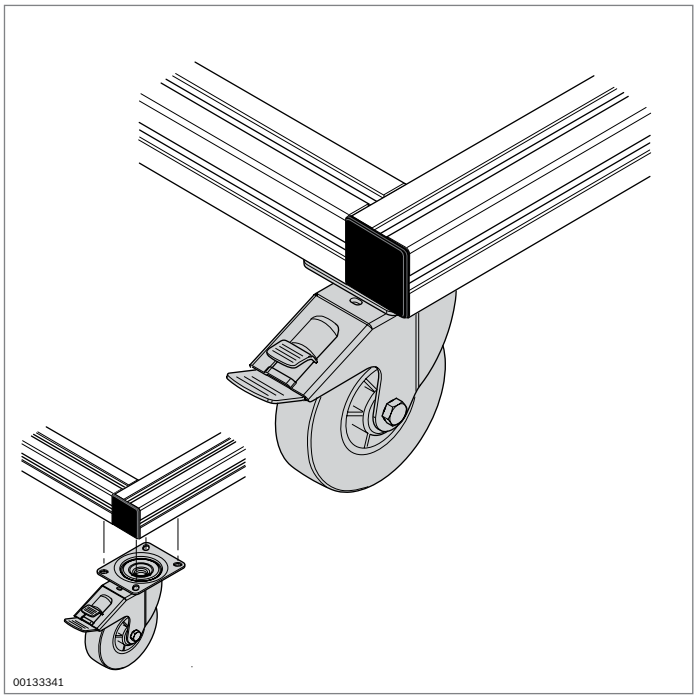
- Steerable lifting wheel
- The wheel turns into a stable base simply by engaging the lock
- The locking lever moves with the wheel
- The locking lever can be moved under the frame if necessary
- The base is centered under the rotary table

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

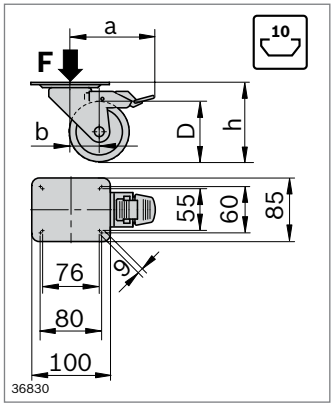



## Roller with mounting flange

10

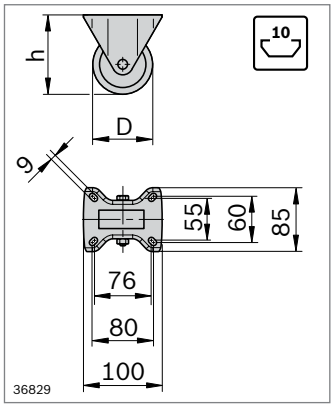
- Robust rollers with mounting flange
- Excellent running properties, particularly suitable for workshop floors
- Available as a castor wheel with lock and as a trestle roller
- Castor wheel with lock: Lock prevents the wheel from rolling or turning





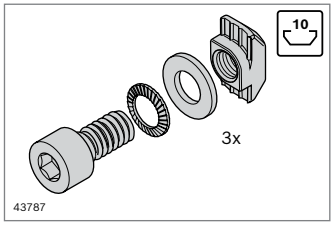

| Castor wheel | F (N) | D (mm) | h (mm) | a (mm) | b (mm) | No. |
|---|---|---|---|---|---|---|
| | 600 | 100 | 125 | 113 | 36±2 | **3 842 259 790** |
| | 900 | 125 | 150 | 123 | 40±2 | **3 842 259 791** |

Material: Wheel: Solid rubber
Rims: Polypropylene
Housing: Sheet steel; zinc-plated




| Trestle roller | F (N) | D (mm) | h (mm) | No. |
|---|---|---|---|---|
| | 600 | 100 | 125 | **3 842 259 792** |
| | 900 | 125 | 150 | **3 842 259 793** |

Material: Wheel: Solid rubber
Rims: Polypropylene
Housing: Sheet steel; zinc-plated



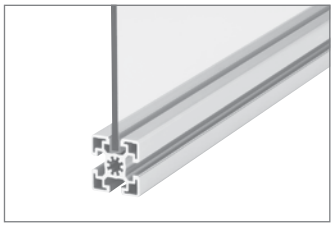

- For castor wheel and trestle roller

| Mounting kit | | No. |
|---|---|---|
| | Set | **3 842 259 794** |

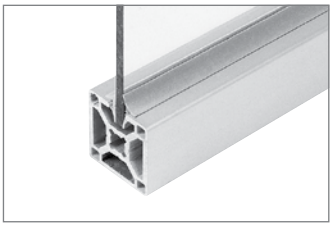
Material: Steel; zinc-plated

# Mounting of panel elements

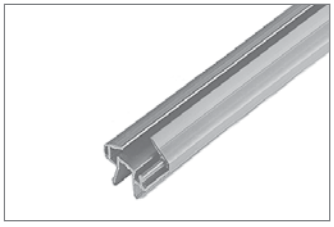




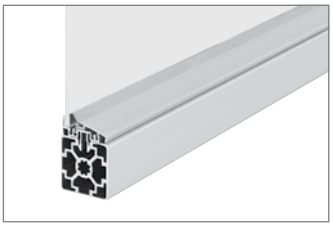
Mounting rim profile (p. 7-2)



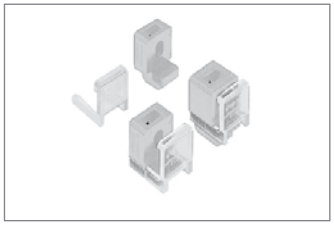
Mounting rim profile clean-room (p. 7-3)



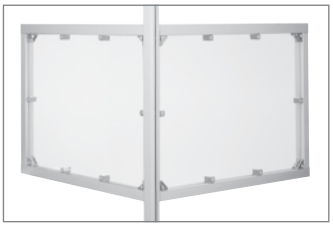
PVC protective pane profile (p. 7-4)



Protective pane profile for cleanroom (p. 7-5)



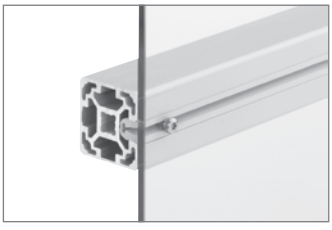
Variofix block (p. 7-6)
Variofix block S (p. 7-7)



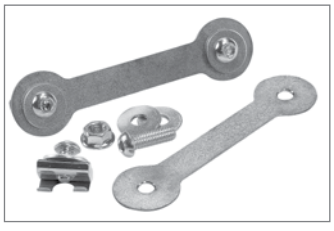
Bracket S (p. 7-8)



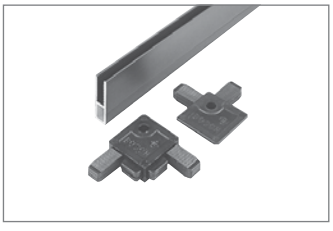
Locking ring (p. 7-9)



Screw bar profile (p. 7-10)



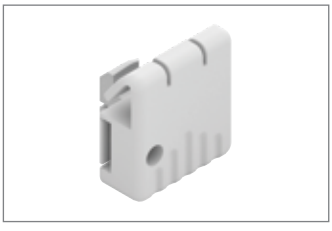
Potential equalizer (p. 7-12)



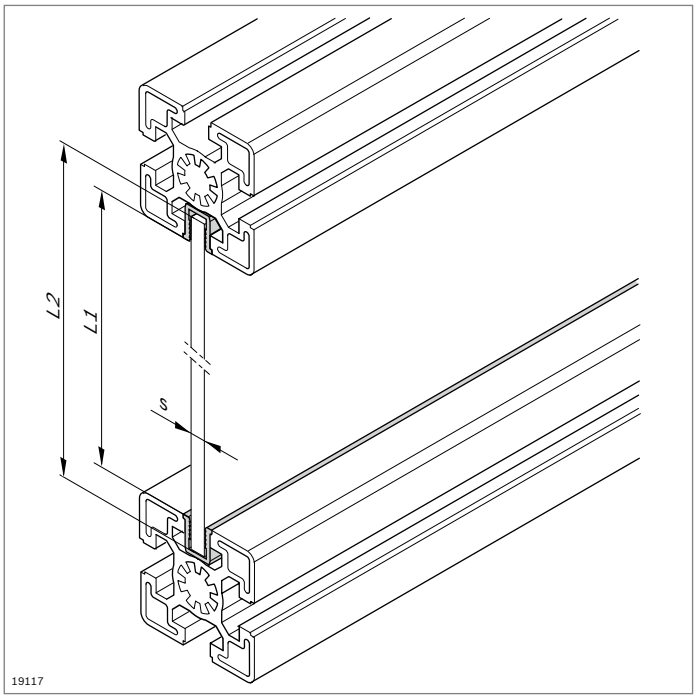
Protective grille profile (p. 7-13)



Clamp bushing (p. 7-14)



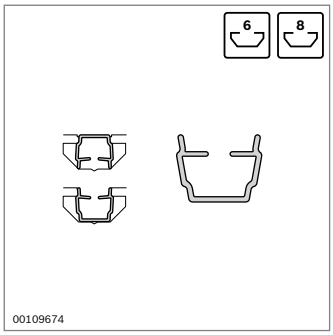
Quick plate holder (p. 7-11)

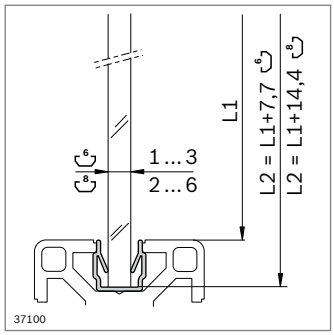



## Mounting rim profile

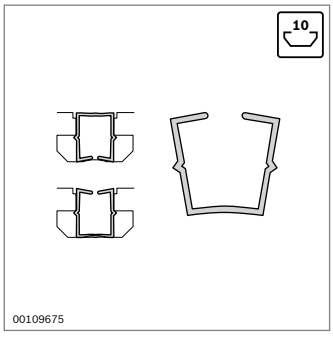


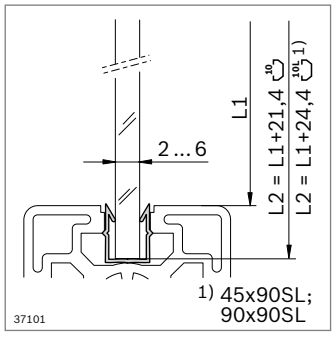

- For the mounting of panel elements in the profile slot
- For panel elements up to 6 mm thick
- Installation during frame assembly
- Mounting rim profile PP can also be used as a cover profile



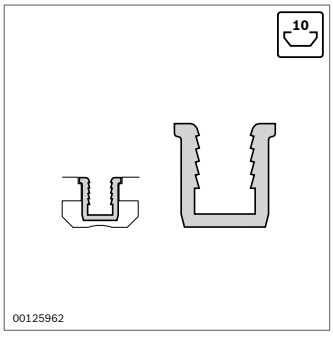



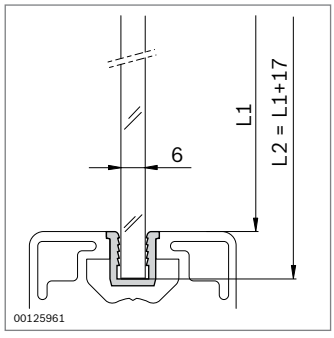

| Mounting rim profile | Slot | s (mm) | L (mm) | No. |
|---|---|---|---|---|
| | 6 | 1 ... 3 | 2000 | **3 842 555 272** |
| | 8 | 2 ... 6 | 2000 | **3 842 555 274** |
| Material: | PP/TPE; signal gray RAL 7004 | | | |



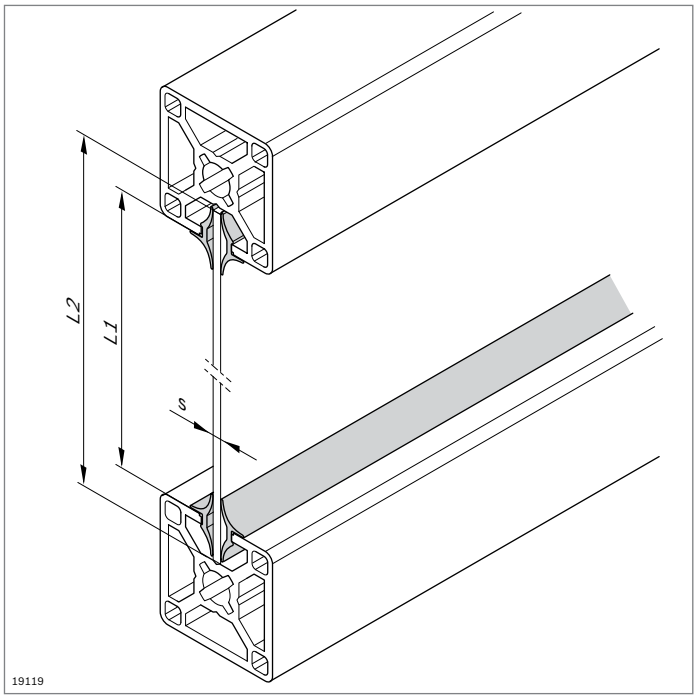




| Mounting rim profile | Slot | s (mm) | L (mm) | No. |
|---|---|---|---|---|
| | 10 | 2 ... 6 | 2000 | **3 842 555 276** |
| Material: | PP/TPE; signal gray RAL 7004 | | | |

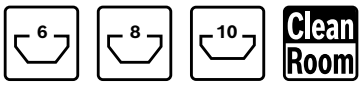



| Mounting rim profile | Slot | s (mm) | L (mm) | No. |
|---|---|---|---|---|
| | 10 | 6 | 2000 | **3 842 555 270** |
| Material: | PE; signal gray RAL 7004 | | | |



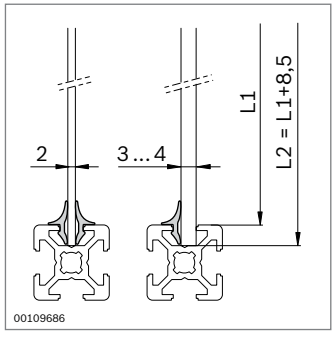

## Mounting rim profile cleanroom




- 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

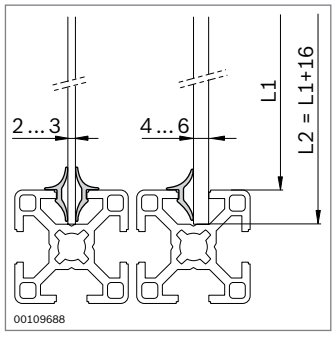
7



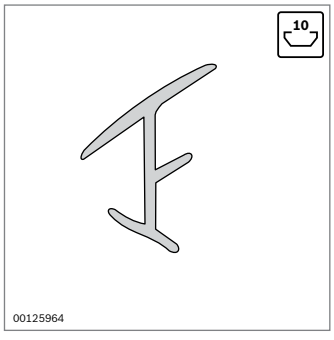



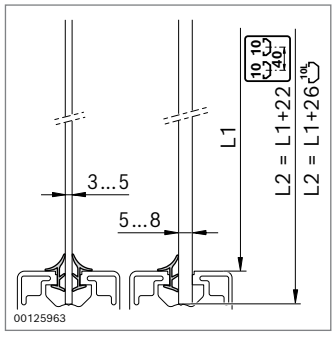

| Mounting rim profile, Clean | Slot | **s** (mm) | **L** (mm) | **No.** |
|---|---|---|---|---|
| | 6 | 2 ... 4 | 10000 | **3 842 555 278** |
| Material: | TPE; signal gray RAL 7004 | | | |



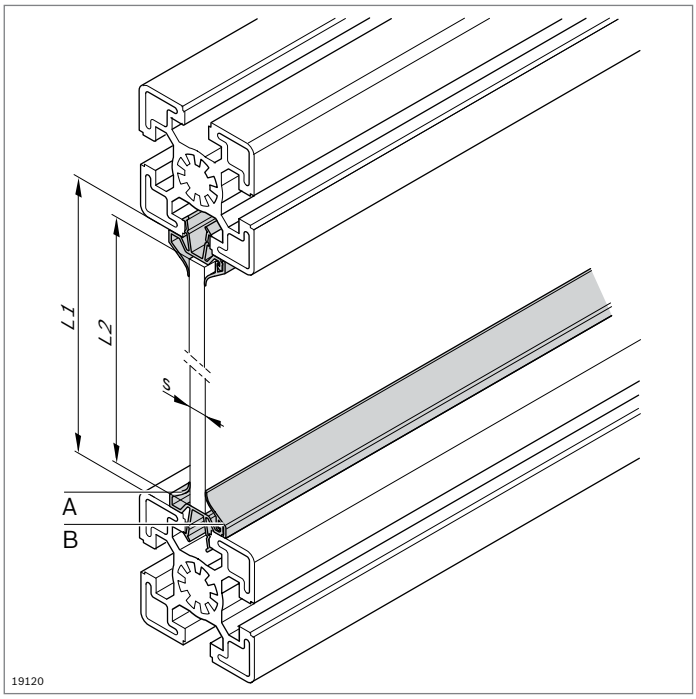




| Mounting rim profile, Clean | Slot | **s** (mm) | **L** (mm) | **No.** |
|---|---|---|---|---|
| | 8 | 2 ... 6 | 10000 | **3 842 555 280** |
| Material: | TPE; signal gray RAL 7004 | | | |

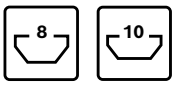


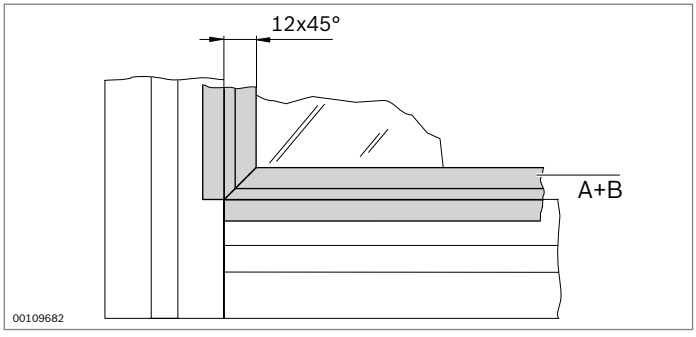

| Mounting rim profile, Clean | Slot | **s** (mm) | **L** (mm) | **No.** |
|---|---|---|---|---|
| | 10 | 3 ... 8 | 10000 | **3 842 555 282** |
| Material: | TPE; signal gray RAL 7004 | | | |

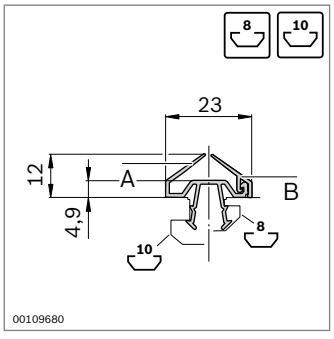


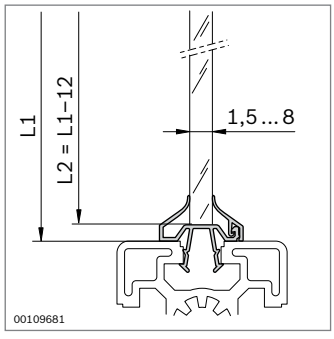

## PVC protective pane profile




- 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

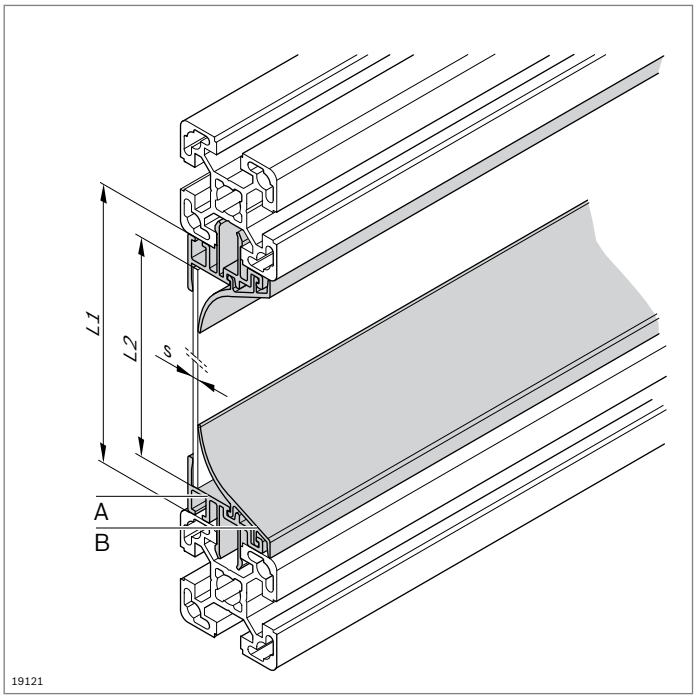


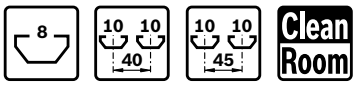




| PVC protective pane profile | | Slot | s (mm) | L (mm) | | No. |
|---|---|---|---|---|---|---|
| **A** | Basic profile | 8, 10 | 1.5 ... 8 | 2000 | 10 | **3 842 555 284** |
| **B** | Clip strip | 8, 10 | 1.5 ... 8 | 2000 | 10 | **3 842 555 286** |

Material: PVC; signal gray RAL 7004

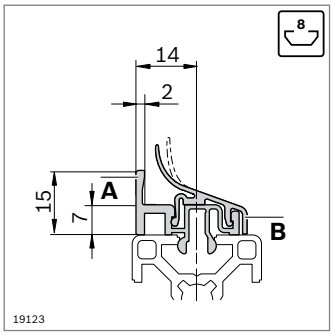


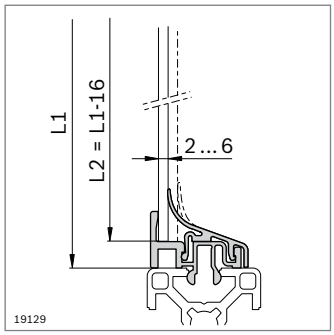

## Protective pane profile cleanroom




- 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

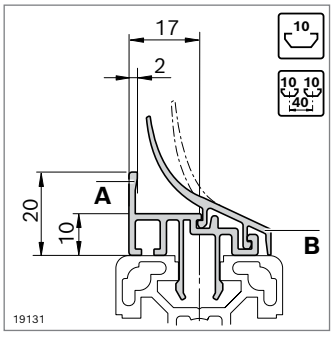
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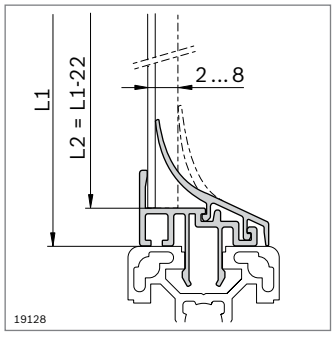



| Protective pane profile | | Slot | s (mm) | L (mm) | | No. |
|---|---|---|---|---|---|---|
| **A** | Basic profile | 8 | 2 ... 6 | 2000 | 10 | **3 842 524 025** |
| **B** | Clip strip | 8 | 2 ... 6 | 2000 | 10 | **3 842 555 288** |

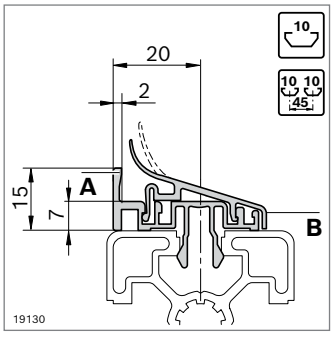
Material: Basic profile: Aluminum; anodized
Clip strip: PP/TPE; signal gray RAL 7004

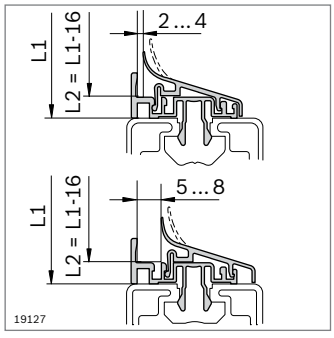



| Protective pane profile | | Slot | s (mm) | L (mm) | | No. |
|---|---|---|---|---|---|---|
| **A** | Basic profile | 10 | 2 ... 8 | 2000 | 10 | **3 842 529 761** |
| **B** | Clip strip | 10 | 2 ... 8 | 2000 | 10 | **3 842 555 292** |

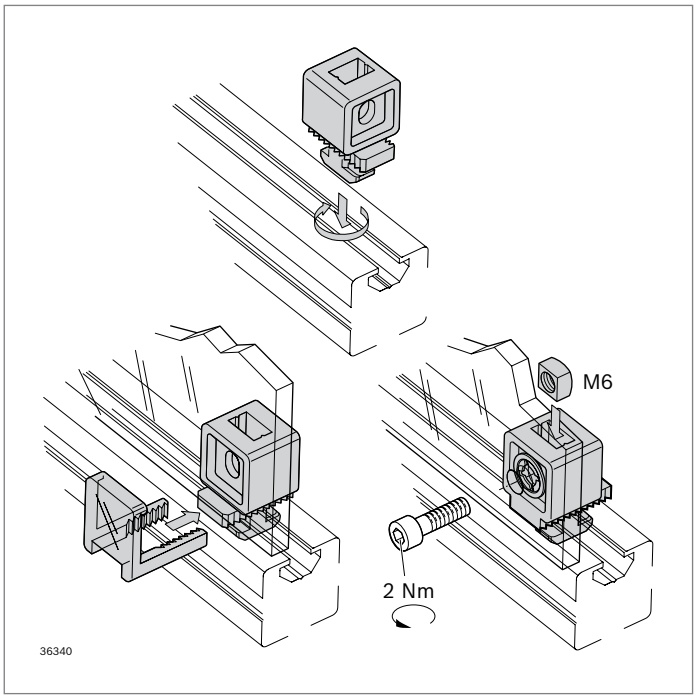
Material: Basic profile: Aluminum; anodized
Clip strip: PP/TPE; signal gray RAL 7004



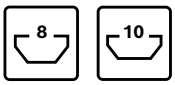




| Protective pane profile | | Slot | s (mm) | L (mm) | | No. |
|---|---|---|---|---|---|---|
| **A** | Basic profile | 10 | 2 ... 8 | 2000 | 10 | **3 842 524 027** |
| **B** | Clip strip | 10 | 2 ... 8 | 2000 | 10 | **3 842 555 290** |

Material: Basic profile: Aluminum; anodized
Clip strip: PP/TPE; signal gray RAL 7004



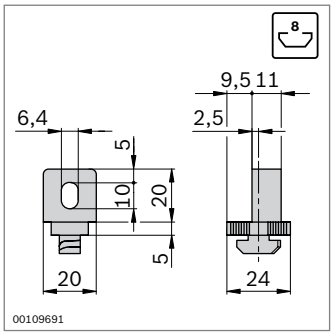

## Variofix block

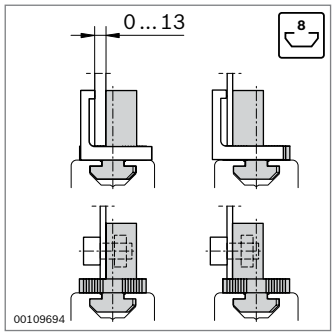



- For panel elements up to 13 mm thick
- For subsequent installation in closed frame constructions
- Asymmetrical form enables fastening of panel elements in two different positions
- Clamping via snap-in clip or screw fitting with square nut M6 (included in scope of delivery) and screw
- Retainer ring for connecting the screw to the panel element (Machinery Directive 2006/42/EC)

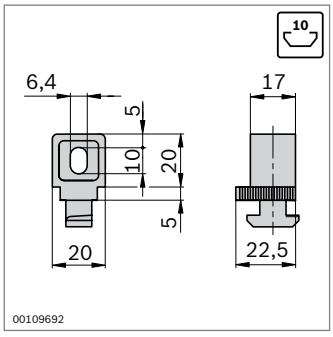
Accessories:

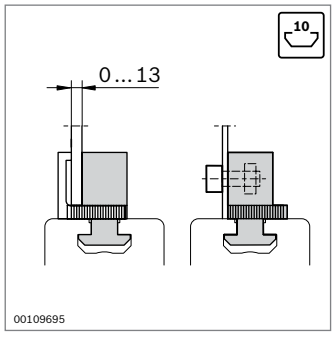
- Variofix remover (p. 14-8)
- Screw for fitting with square nut



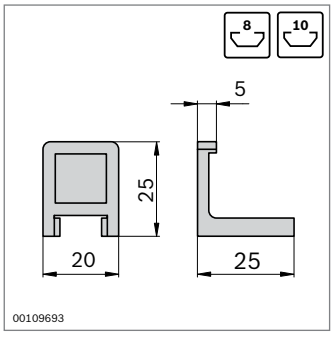




| Variofix block | Slot | | No. |
|---|---|---|---|
| | 8 | 10 | **3 842 548 832** |
| Material: | PP; signal gray RAL 7004<br>Square nut: Steel; zinc-plated | | |
| Scope of delivery: | Incl. square nut | | |

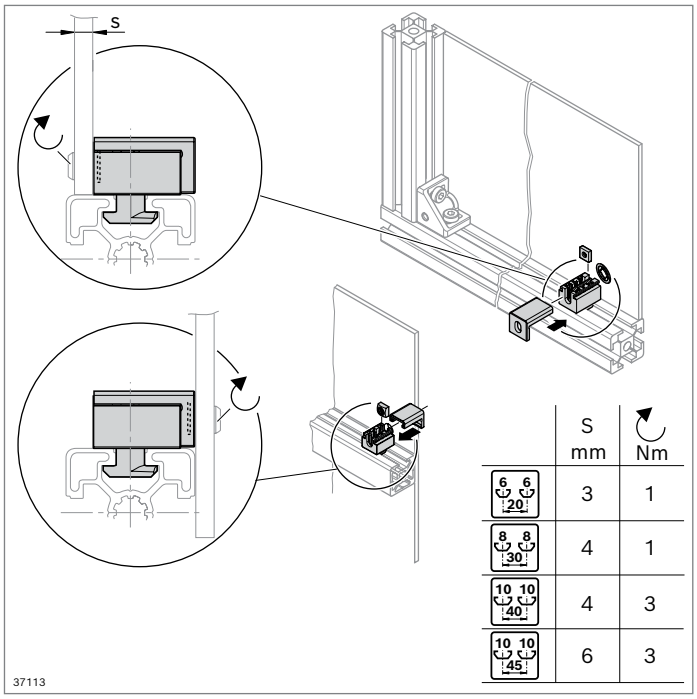



| Variofix block | Slot | | No. |
|---|---|---|---|
| | 10 | 10 | **3 842 548 834** |
| Material: | PP; signal gray RAL 7004<br>Square nut: Steel; zinc-plated | | |
| Scope of delivery: | Incl. square nut M6, locking ring M6 | | |




| Snap-in clip | | No. |
|---|---|---|
| | 10 | **3 842 184 738** |
| Material: | PA; colorless | |



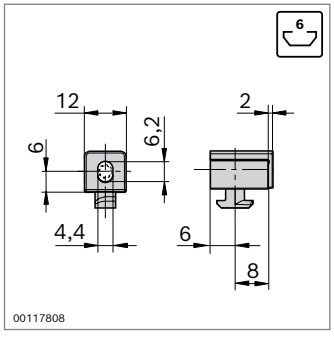

| | S mm | Nm |
|---|---|---|
| 6 6 20 | 3 | 1 |
| 8 8 30 | 4 | 1 |
| 10 10 40 | 4 | 3 |
| 10 10 45 | 6 | 3 |

## Variofix block S

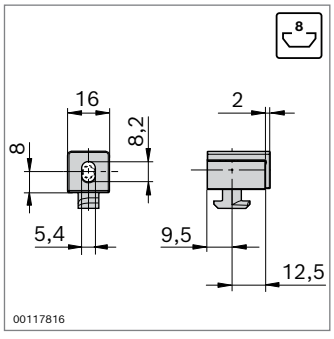



- For virtually gap-free panel element mounting
- For subsequent installation in closed frame constructions
- The asymmetrical design and cover cap enable variable mounting positions for the panel elements: flush with the profile edge or situated in front of the profile
- Retainer ring for connecting the screw to the panel element (Machinery Directive 2006/42/EC)

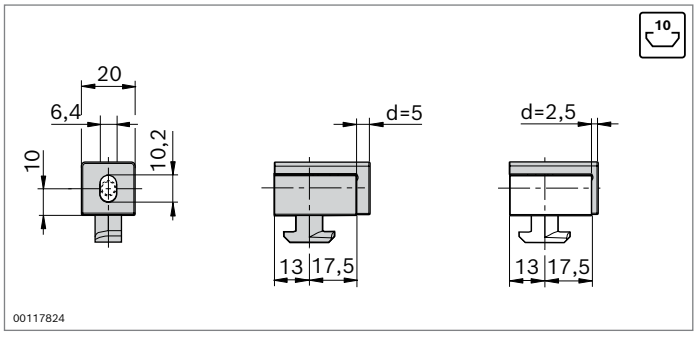
Required accessories:
Screw for fastening the panel element



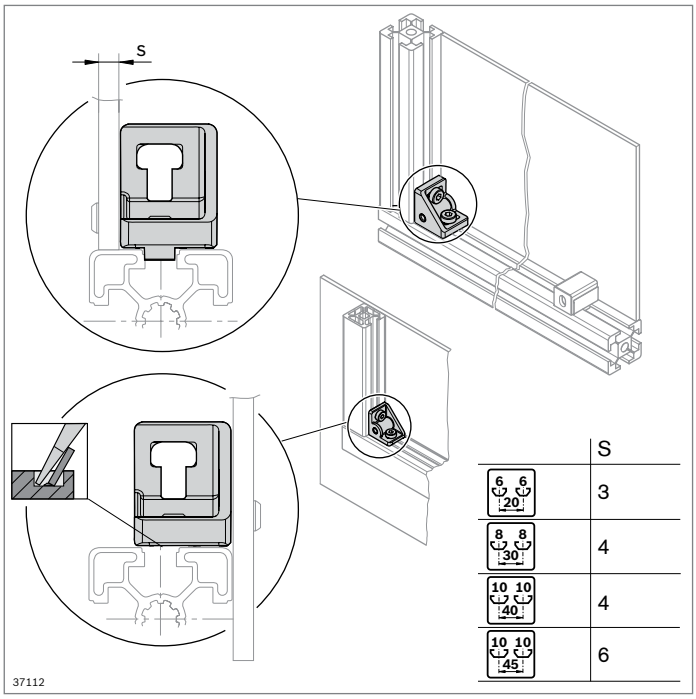

| Variofix block S | | Slot | | No. |
|---|---|---|---|---|
| | | 6 | 10 | **3 842 548 836** |
| Material: | PP; signal gray RAL 7004<br>Square nut: Steel; zinc-plated | | | |
| Scope of delivery: | Incl. square nut M4, cap | | | |




| Variofix block S | | Slot | | No. |
|---|---|---|---|---|
| | | 8 | 10 | **3 842 548 838** |
| Material: | PP; signal gray RAL 7004<br>Square nut: Steel; zinc-plated | | | |
| Scope of delivery: | Incl. square nut M5, cap, locking ring | | | |




| Variofix block S | | Slot | | No. |
|---|---|---|---|---|
| | | 10 | 10 | **3 842 564 810** |
| Material: | PA; signal gray RAL 7004<br>Square nut: Steel; zinc-plated | | | |
| Scope of delivery: | Incl. square nut M5, 2 x caps<br>(d = 2.5 mm; d = 5 mm), locking ring | | | |



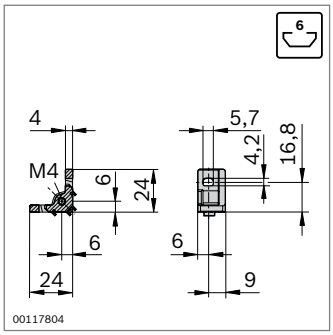

| S | |
|---|---|
| 6 6 20 | 3 |
| 8 8 30 | 4 |
| 10 10 40 | 4 |
| 10 10 45 | 6 |

## Bracket S

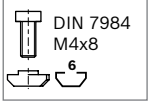



- Bracket with thread for virtually gap-free mounting of panel elements
- For subsequent installation in closed frame constructions
- Panel elements can be mounted in different positions: flush with the profile edge or situated in front of the profile (by breaking off the centering lug)

Required accessories:
Screw for fastening the panel element
Accessories, optional:
- Variofix block S (p. 7-7)
- Locking ring (p. 7-9)

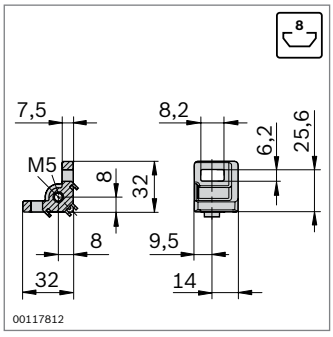



**FS1**

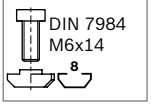



| Bracket S | Slot | | No. | FS |
|---|---|---|---|---|
| **20x20** | 6 | 20 | **3 842 536 489** | |
| **20x20 set** | 6 | 1 | **3 842 536 670** | 2xFS1 |

Material: Diecast aluminum
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)

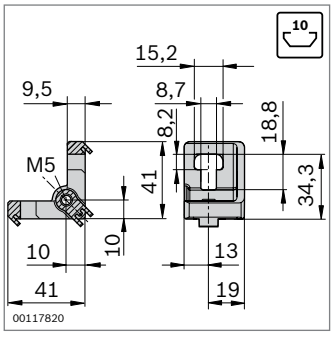



**FS2**

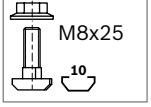



| Bracket S | Slot | | No. | FS |
|---|---|---|---|---|
| **30x30** | 8 | 20 | **3 842 536 490** | |
| **30x30 set** | 8 | 1 | **3 842 536 671** | 2xFS2 |

Material: Diecast aluminum
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)

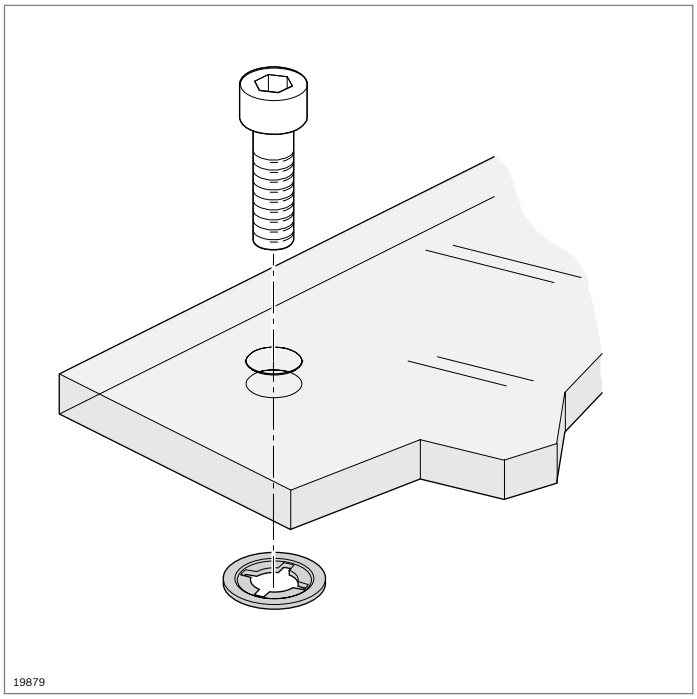



**FS3**




| Bracket S | Slot | | No. | FS |
|---|---|---|---|---|
| **40/45** | 10 | 20 | **3 842 536 491** | |
| **40/45 set** | 10 | 1 | **3 842 536 672** | 2xFS3 |

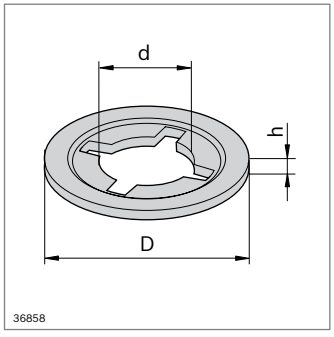
Material: Diecast aluminum
Fastening material: Steel; zinc-plated
Scope of delivery: Set incl. fastening material (FS)




## Locking ring

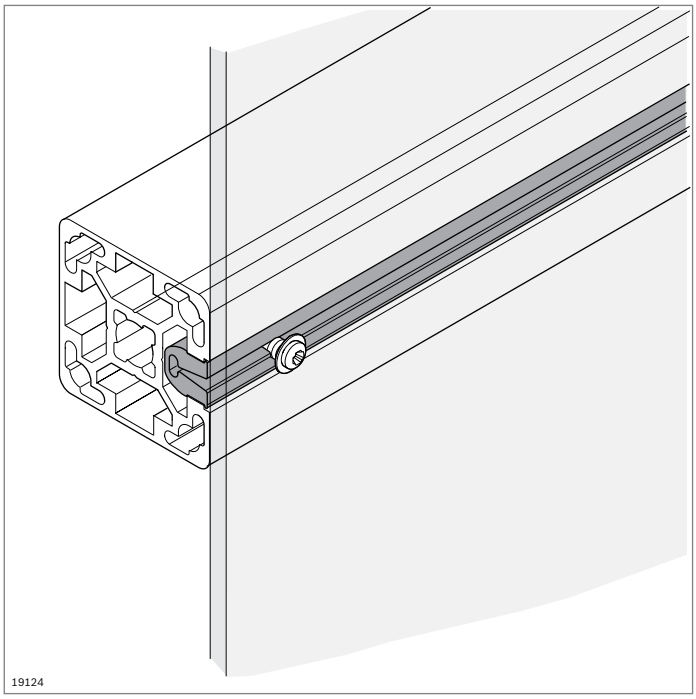
- Secures the fastening screw to the panel element
- When using with bracket S, ensure that the support point for the panel element is raised
- Can be retrofitted
- For various thread sizes



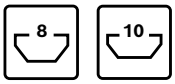



| Locking ring | D (mm) | d (mm) | h (mm) | | No. |
|---|---|---|---|---|---|
| **M4** | 9.0 | 3.4 | 1.0 | 100 | **3 842 542 328** |
| **M5** | 10.0 | 4.5 | 1.0 | 100 | **3 842 542 329** |
| **M6** | 12.5 | 5.5 | 1.5 | 100 | **3 842 542 330** |

Material: PA; black

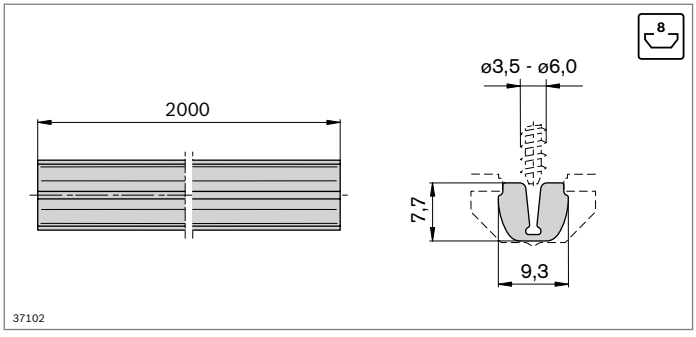



## Screw bar profile

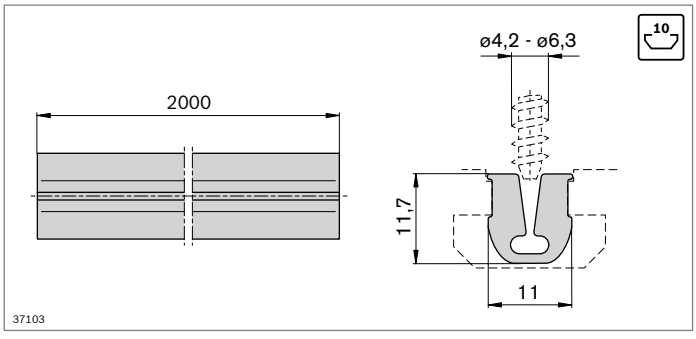



- Screw bar profile for fastening panel elements using commercially available sheet metal screws
- Clipping the screw bar profile into the profile slot
- Low-cost connection element

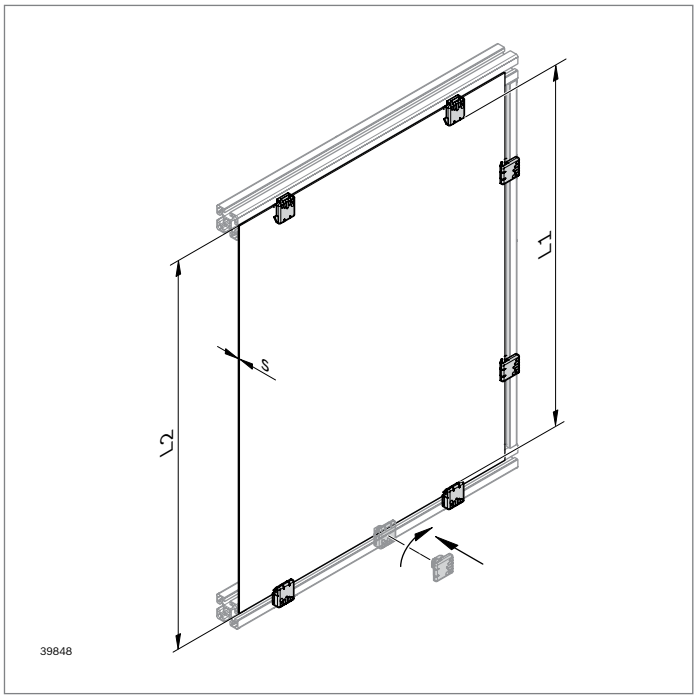
Required accessories:
Sheet metal screws for fastening panel elements




| Screw bar profile | Slot | L (mm) | No. |
|---|---|---|---|
| | 8 | 2000 | **3 842 555 550** |
| Material: | PVC; signal gray RAL 7004 | | |



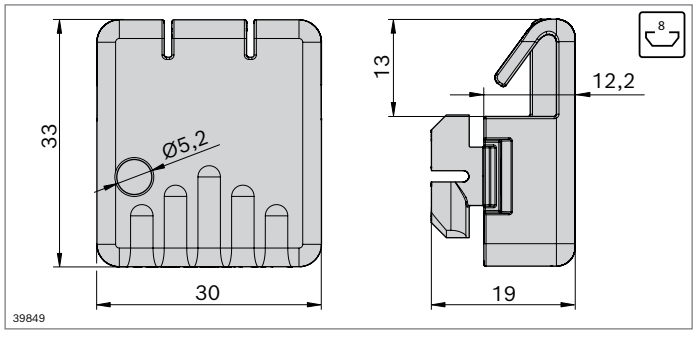

| Screw bar profile | Slot | L (mm) | No. |
|---|---|---|---|
| | 10 | 2000 | **3 842 555 552** |
| Material: | PVC; signal gray RAL 7004 | | |

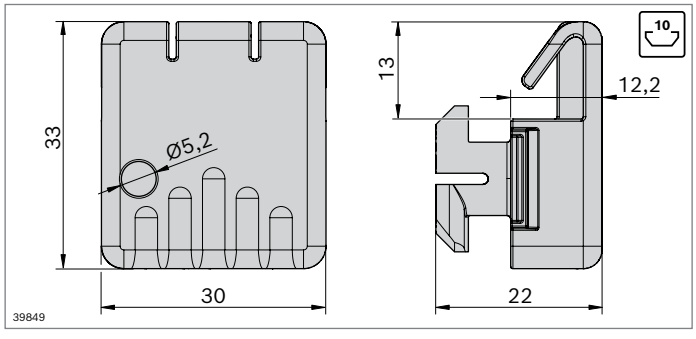


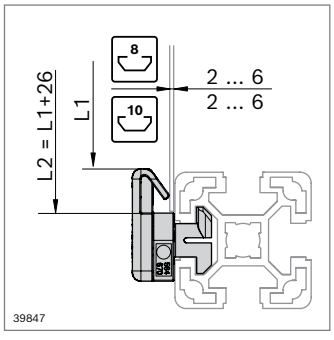

## Quick plate holder

- 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 ... 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

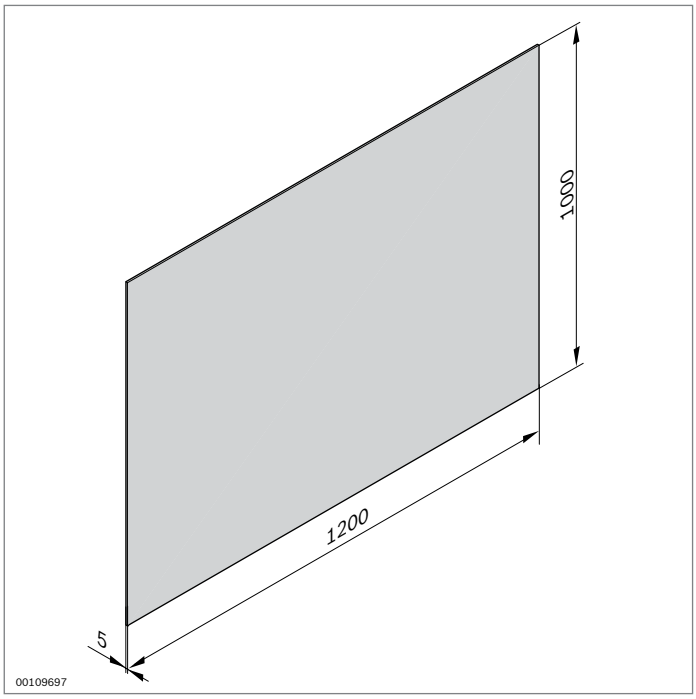



| Quick plate holder | Slot | | No. |
|---|---|---|---|
| | 8 | 10 | **3 842 564 671** |
| | 10 | 10 | **3 842 564 670** |

Material: POM; signal gray RAL 7004




## Universal plate

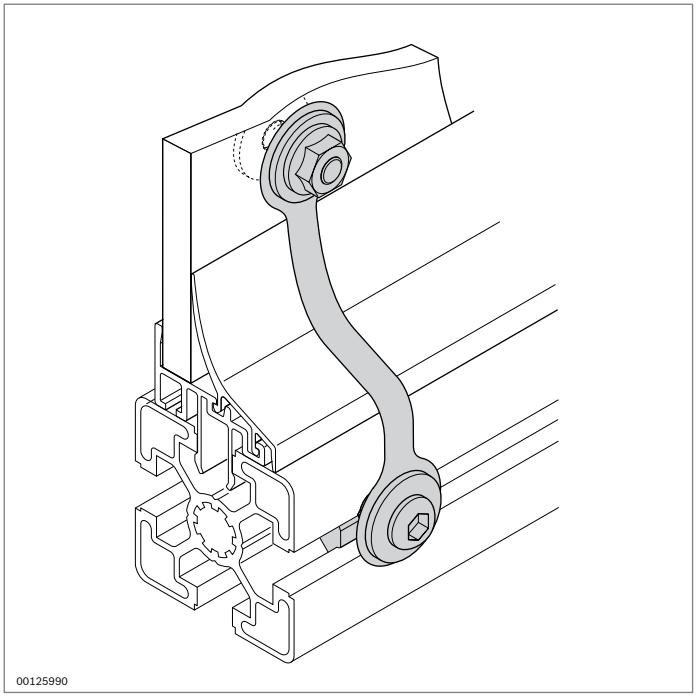



- For the construction of trays, material shuttles, or privacy shields on tables or frames

Accessories:
Frame profile, mounting of panel elements

| Universal plate | ESD | No. |
|---|---|---|
| **PP** | | **3 842 516 837** |
| **PS** | ESD | **3 842 516 838** |

Material: PP: gray, smooth on one side, grained on the other
PS: black, smooth on both sides



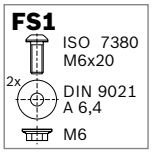

## Potential equalizer

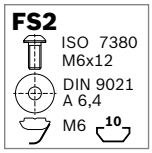


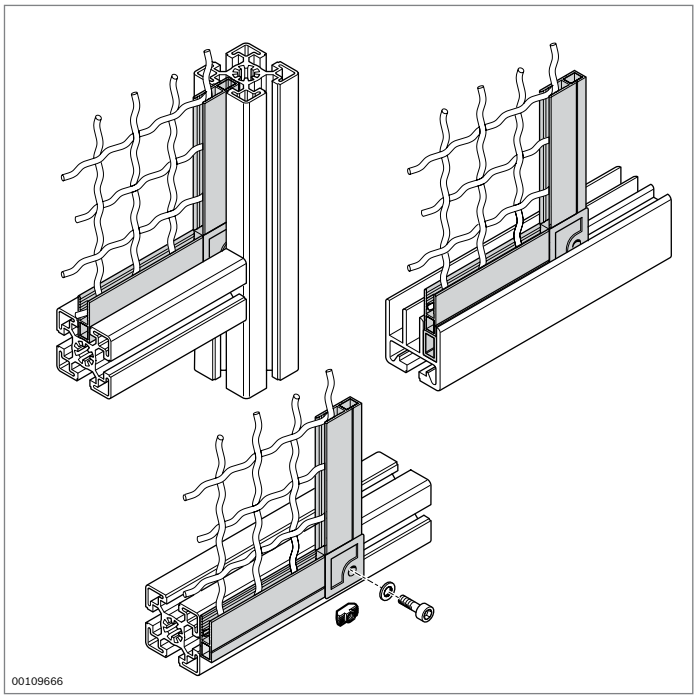

- Potential equalizer for creating electrostatic conduction between panel elements and strut profiles

| Potential equalizer | ESD | | No. | FS |
|---|---|---|---|---|
| | ESD | 10 | **3 842 536 148** | FS1, FS2 |

Material: Strip steel, stainless
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)





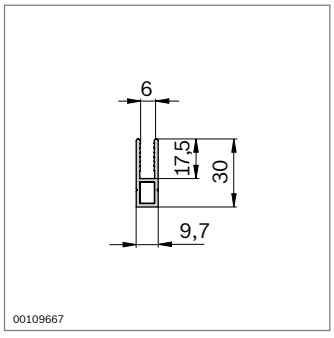

## Protective grille profile

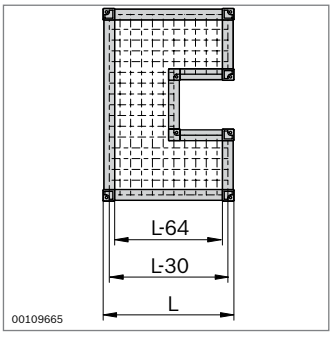
10

- 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 AI 45
- Corner pieces for inner and outer corners

Accessories, optional:
- T-nut M6 (p. 3-4)
- Screw M6



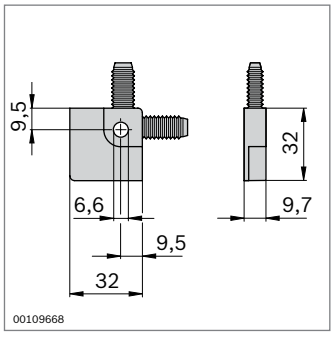


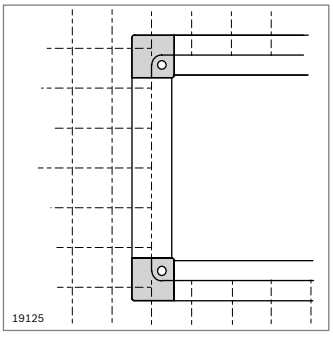




| Protective grille profile | L (mm) | | No. |
|---|---|---|---|
| | 3000[1] | 20 | **3 842 305 766** |

[1] Due to the (anodic oxidation) contact points produced in the manufacturing process, supplied in profile length of 3100 mm

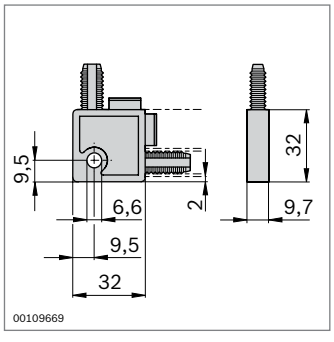
Material: Aluminum; black anodized

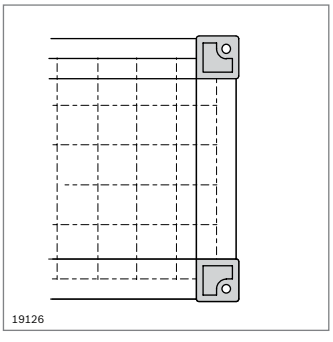



| Inner corner piece | | No. |
|---|---|---|
| | 20 | **3 842 305 768** |

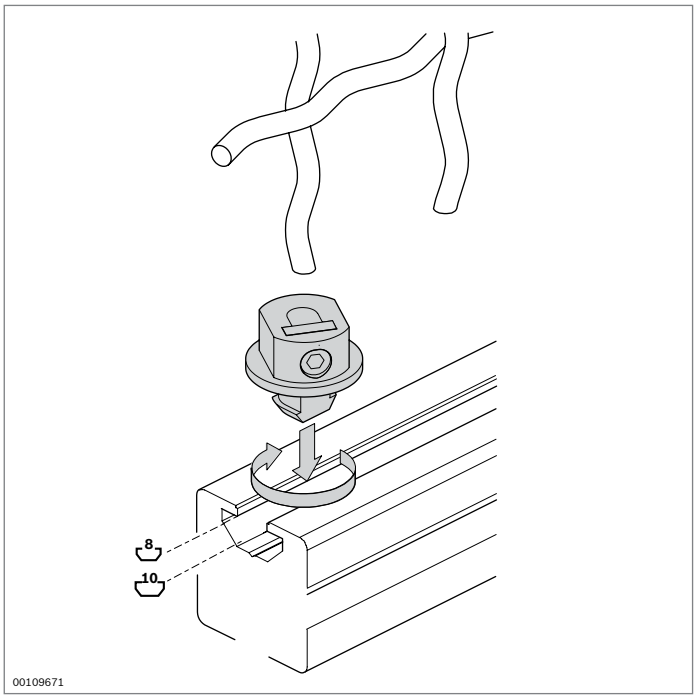
Material: PA; black



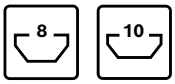




| Outer corner piece | | No. |
|---|---|---|
| | 20 | **3 842 305 767** |

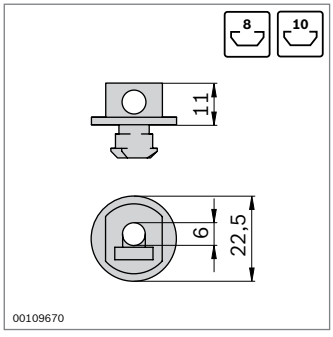
Material: PA; black

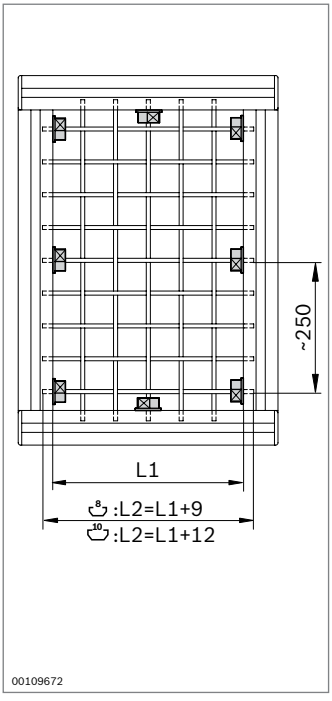



## Clamp bushing




- 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 |

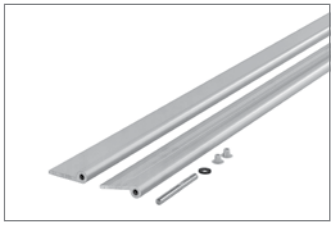
Material: Diecast zinc
Fastening material: Steel; zinc-plated

**FS1**

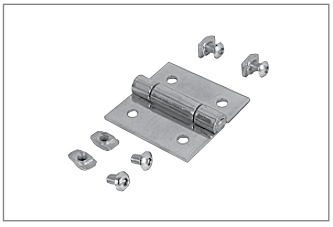
EN ISO 4027
M6x10
DIN 562
M6-04

# Doors and fittings





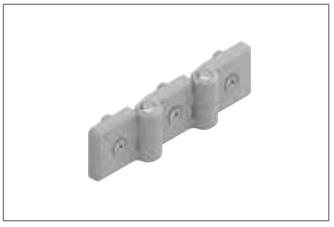
Hinge profile
(p. 8-3)



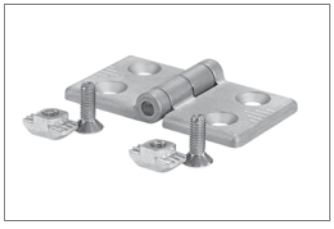
Hinge
(p. 8-4)



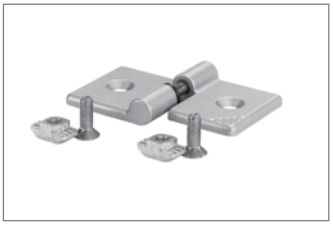
Hinge, plastic
(p. 8-5)



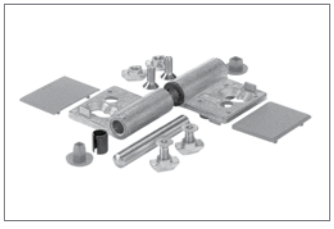
Plastic double hinge
(p. 8-6)



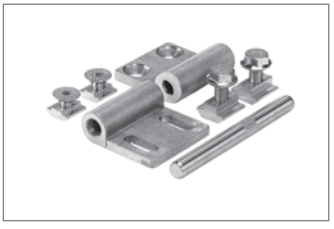
Hinge, aluminum
(p. 8-7)



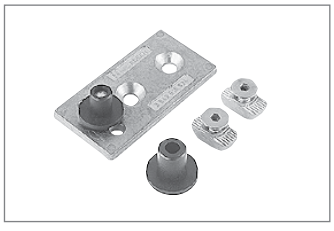
LIFTOFF hinge
(p. 8-8)



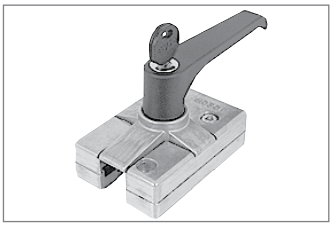
Hinge, removable
(p. 8-9)



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)



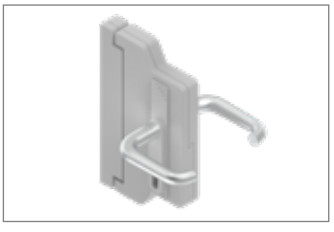
Door lock for swing doors
(p. 8-15)



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)



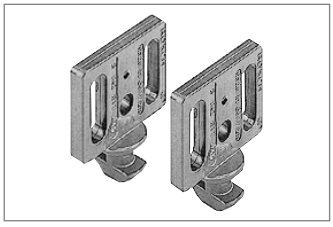
Bow-type handle (p. 8-24)



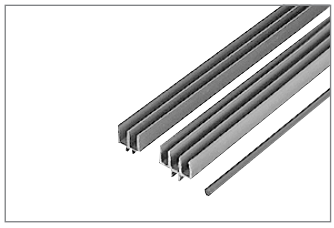
Safety handle (p. 8-25)



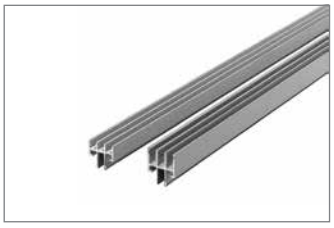
Sealing strip (p. 8-26)
Sealing profile (p. 8-27)



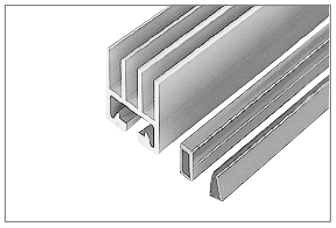
Slider (p. 8-28)



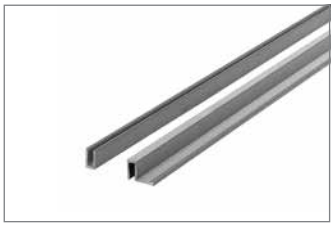
Sliding door profile PVC (p. 8-29)



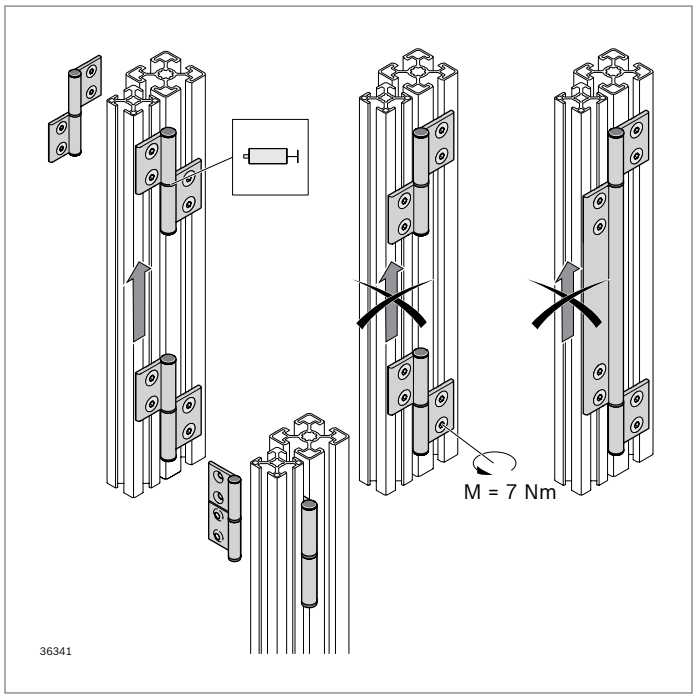
Sliding door profile Al clip-in (p. 8-30)



Sliding door profile Al 45 (p. 8-31)



Edge protector, door handle profile (p. 8-33)

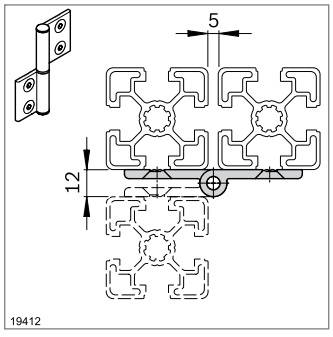


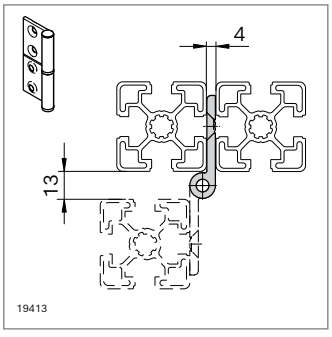

## Hinge profile

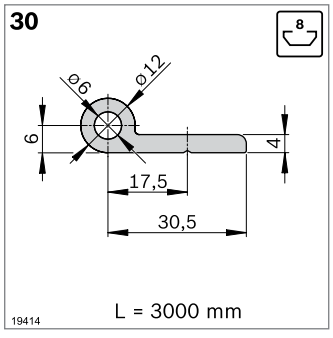
- For self-assembly of hinges or hinge bands
- Possible to use as a non-transparent hinge band to fully cover the door gap
- Hinge profiles for slot dimensions 30 and 40/45/50 can also be combined for maximum flexibility
- For doors with profile frames or doors made of solid panel elements
- Assembly 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

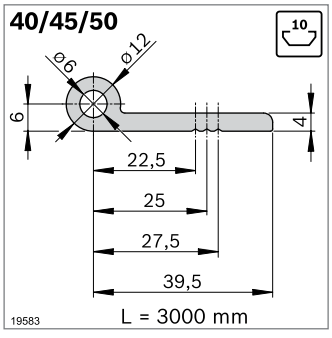
Required accessories:

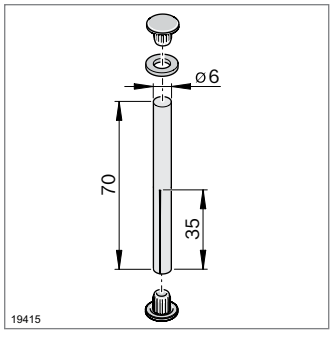
- Hinge pins
- T-nut M6 (p. 3-4)
- Screw ISO 10642 M6x12 (8 mm slot)
- screw ISO 10642 M6x16 (10 mm slot)



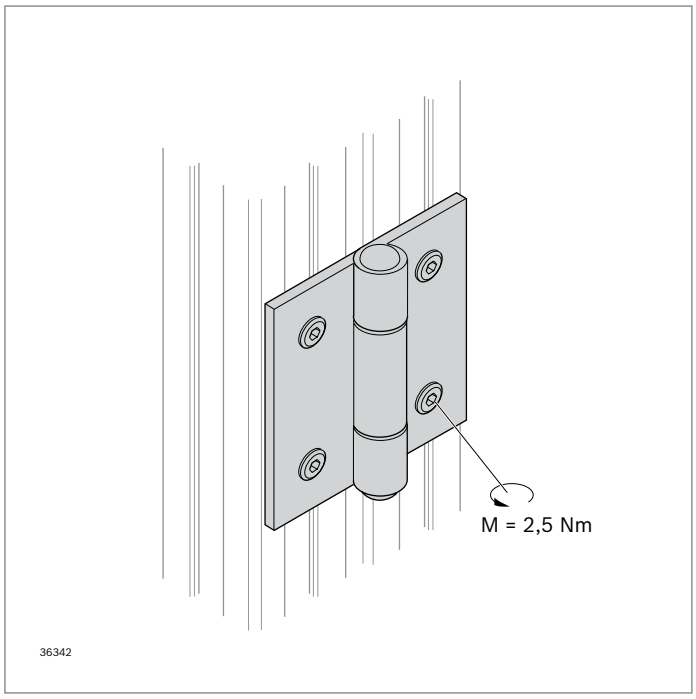

| Hinge profile | L (mm) | | No. |
|---|---|---|---|
| **30** | 3000[1] | 10 | **3 842 543 371** |
| **40/45/50** | 3000[1] | 10 | **3 842 543 372** |

[1] Due to the (anodic oxidation) contact points produced in the manufacturing process, supplied in profile length of 3100 mm

Material: Aluminum; anodized

| Slot | $F_{max}$ |
|---|---|
| 8 | 300 N |
| 10 | 300 N |

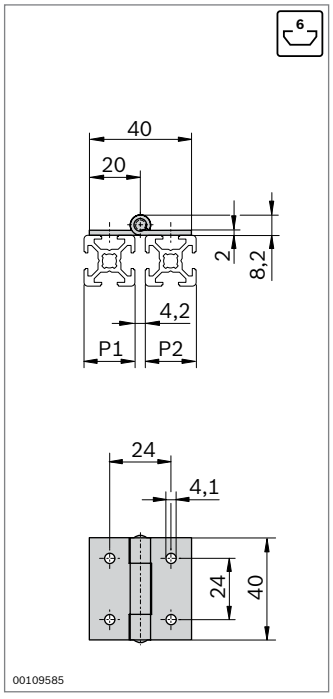
| Hinge pins | | No. |
|---|---|---|
| | 10 | **3 842 544 661** |
| Material: | Grooved pin: Steel; zinc-plated<br>Washer: PA, cover cap: TPE | |
| Scope of delivery: | Incl. grooved pin, 2 x cover cap, washer | |




## Hinge




- Assembly possible on solid panel elements
- For small doors and flaps
- Steel hinge for profiles with 6 mm slot



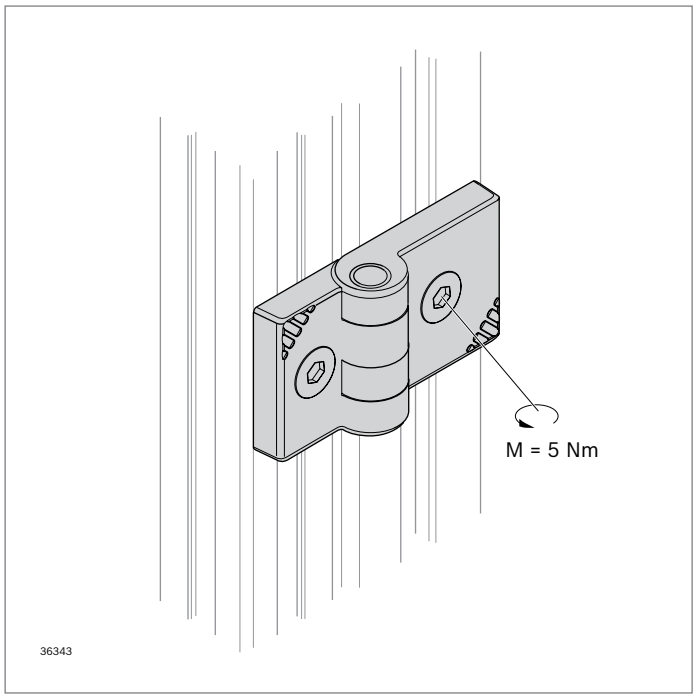

| Slot | $F_{max}$ |
|---|---|
| 6 | 300 N |

**FS1**

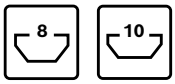



| Hinge | P1 (mm) | P2 (mm) | ESD | | No. | FS |
|---|---|---|---|---|---|---|
|  | 20 | 20 | | 2 | **3 842 535 684** | 4xFS1 |

| | |
|---|---|
| Material: | Steel; stainless<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |

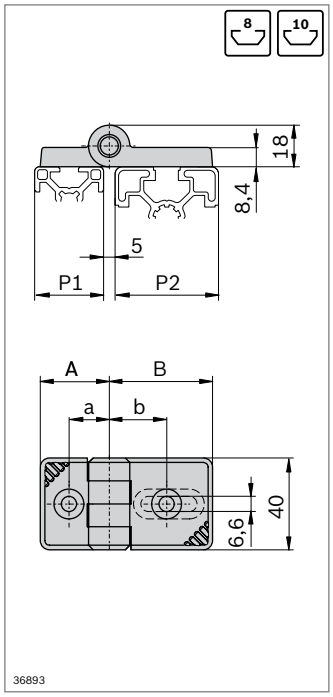



## Hinge, plastic




- 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 | $F_{max}$ |
|---|---|
| 8 | 150 N |
| 10 | 150 N |

**FS1**



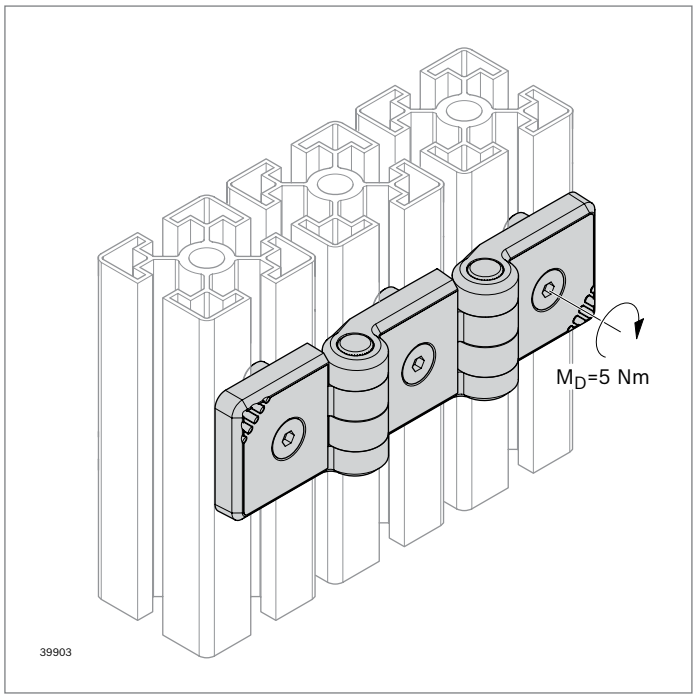

**FS2**



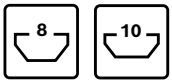

| Hinge, plastic | P1 (mm) | P2 (mm) | | No. | FS |
|---|---|---|---|---|---|
|  | 30 | 30 | 2 | **3 842 554 458** | 2xFS1 |
| | 30 | 40/50 | 2 | **3 842 554 460** | 1xFS1, 1xFS2 |
| | 30 | 45 | 2 | **3 842 554 462** | 1xFS1, 1xFS2 |
| | 30 | 60 | 2 | **3 842 554 464** | 1xFS1, 1xFS2 |
| | 40/50 | 40/50 | 2 | **3 842 554 466** | 2xFS2 |
| | 45 | 45 | 2 | **3 842 554 468** | 2xFS2 |
| | 45 | 60 | 2 | **3 842 554 470** | 2xFS2 |
| | 60 | 60 | 2 | **3 842 554 472** | 2xFS2 |

Material: PA; signal gray
Hinge axle: Steel; zinc-plated
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

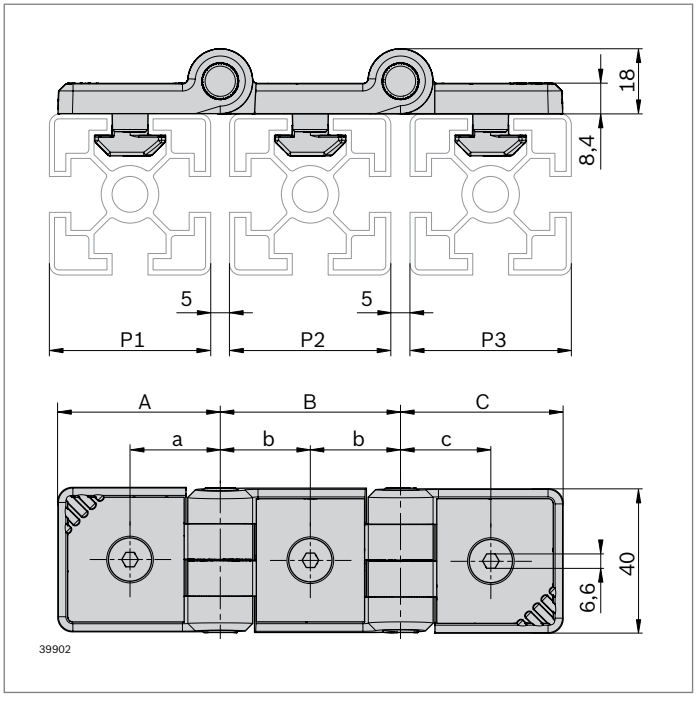
| P1/P2 (mm) | A/B (mm) | a/b (mm) |
|---|---|---|
| 30 | 30 | 17.5 |
| 40 | 39 | 22.5 |
| 45 | 45 | 25.0 |
| 50 | 39 | 27.5 |
| 60 | 60 | 32.5 |




## 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



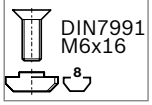

| Plastic double hinge | Slot | P1 (mm) | P2 (mm) | P3 (mm) | ESD | No. | FS |
|---|---|---|---|---|---|---|---|
| | 8 | 30 | 30 | 30 | | 2 **3 842 564 133** | 3xFS1 |
| | 10 | 45 | 45 | 45 | | 2 **3 842 564 130** | 3xFS2 |

Material: Hinge: PA; signal gray
Axis: Steel, galvanized
Fastening material: Steel; zinc-plated

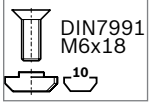
Scope of delivery: Incl. Fastening material

| Slot | $F_{max}$ $F_{max}$ |
|---|---|
| 8 | 150 N |
| 10 | 150 N |

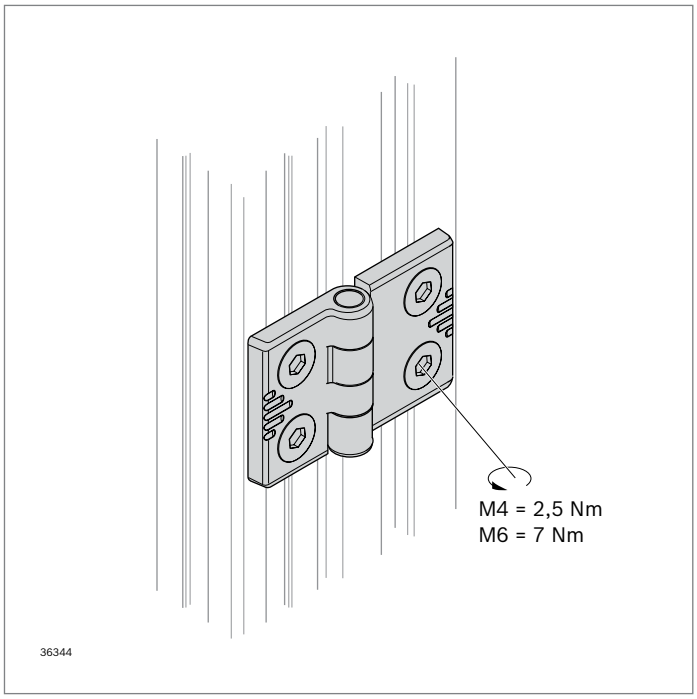
**FS1**




**FS2**



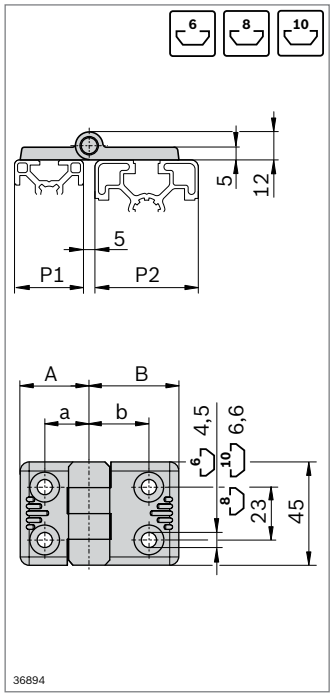

| P1/P2/P3 (mm) | A/C (mm) | B (mm) | a/b/c (mm) |
|---|---|---|---|
| 45 | 45 | 50 | 25 |
| 30 | 30 | 35 | 17.5 |




## 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 |

**FS1**
DIN7991 M4x8

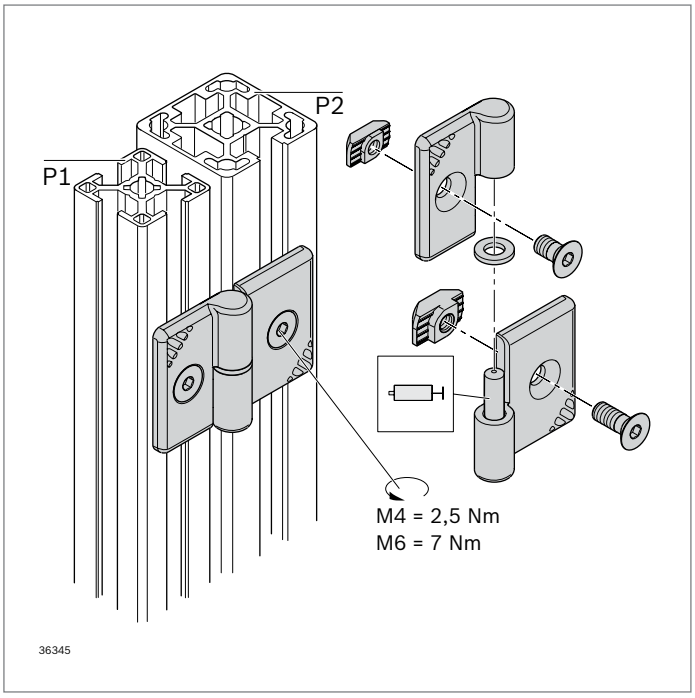
**FS2**
DIN7991 M6x12

**FS3**
DIN7991 M6x16

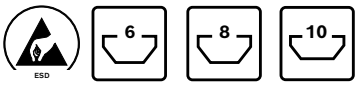
| Hinge, aluminum | P1 (mm) | P2 (mm) | ESD | No. | FS |
|---|---|---|---|---|---|
|  | 20 | 20 | 2 | **3 842 544 525** | 4xFS1 |
| | 20 | 30 | 2 | **3 842 544 526** | 2xFS1, 2xFS2 |
| | 30 | 30 | 2 | **3 842 544 527** | 4xFS2 |
| | 30 | 40 | 2 | **3 842 544 528** | 2xFS2, 2xFS3 |
| | 30 | 45 | 2 | **3 842 544 529** | 2xFS2, 2xFS3 |
| | 40 | 40 | 2 | **3 842 544 530** | 4xFS3 |
| | 45 | 45 | 2 | **3 842 544 531** | 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 |

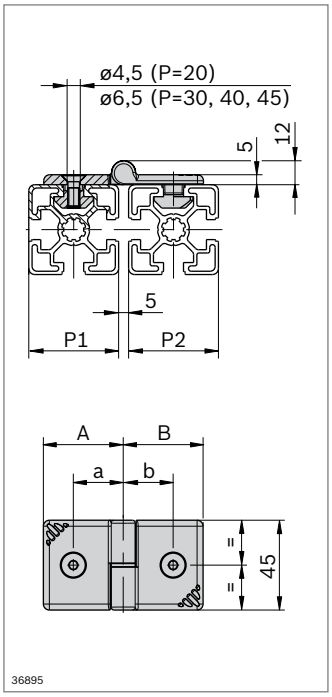



## LIFTOFF hinge




*designLINE*

- 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 | $F_{max}$ |
|---|---|
| 6 | 300 N |
| 8 | 300 N |
| 10 | 300 N |

**FS1**
DIN7991 M4x8
6

**FS2**
DIN7991 M6x12
8

**FS3**
DIN7991 M6x16
10

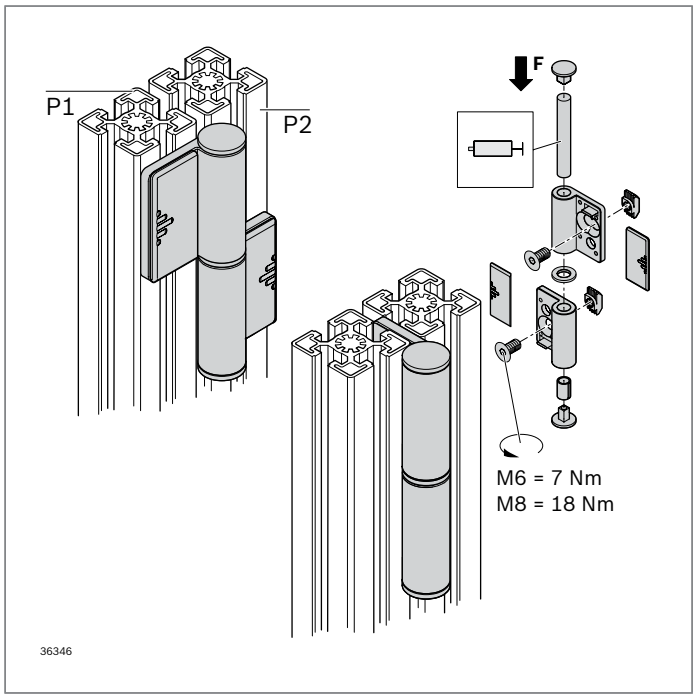
**FS4**
DIN 125 A6,4

| 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 |

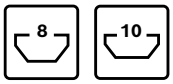
| LIFTOFF hinge | P1 (mm) | P2 (mm) | | No. | FS |
|---|---|---|---|---|---|
| **right** | 20 | 20 | 2 | **3 842 543 334** | 2xFS1, FS4 |
| | 20 | 30 | 2 | **3 842 543 333** | FS1, FS2, FS4 |
| | 30 | 30 | 2 | **3 842 543 332** | 2xFS2, FS4 |
| | 30 | 40 | 2 | **3 842 543 331** | FS2, FS3, FS4 |
| | 30 | 45 | 2 | **3 842 543 330** | FS2, FS3, FS4 |
| | 40 | 40 | 2 | **3 842 543 329** | 2xFS3, FS4 |
| | 45 | 45 | 2 | **3 842 543 328** | 2xFS3, FS4 |
| **left** | 20 | 20 | 2 | **3 842 543 327** | 2xFS1, FS4 |
| | 20 | 30 | 2 | **3 842 543 326** | FS1, FS2, FS4 |
| | 30 | 30 | 2 | **3 842 543 325** | 2xFS2, FS4 |
| | 30 | 40 | 2 | **3 842 543 324** | FS2, FS3, FS4 |
| | 30 | 45 | 2 | **3 842 543 323** | FS2, FS3, FS4 |
| | 40 | 40 | 2 | **3 842 543 322** | 2xFS3, FS4 |
| | 45 | 45 | 2 | **3 842 543 321** | 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)

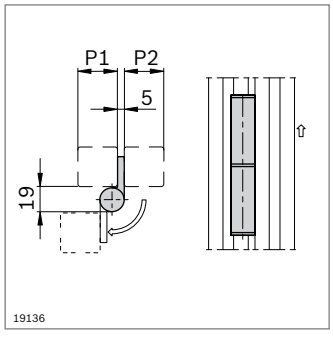


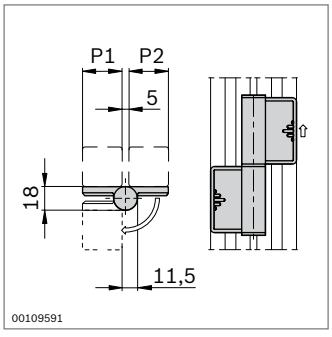

## Hinge, removable

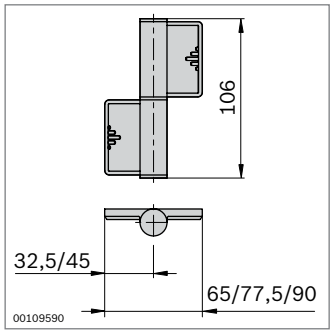



- For constructing large, heavy doors
- Removable
- For left and right stop
- Externally mounted: Opening angle approx. 180°
- Internally mounted: Prevents unauthorized removal, e.g. for safety devices





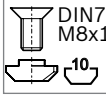



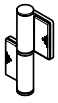

| Slot | $F_{max}$ |
|---|---|
| 8 | 300 N |
| 10 | 300 N |

**FS1**




**FS2**

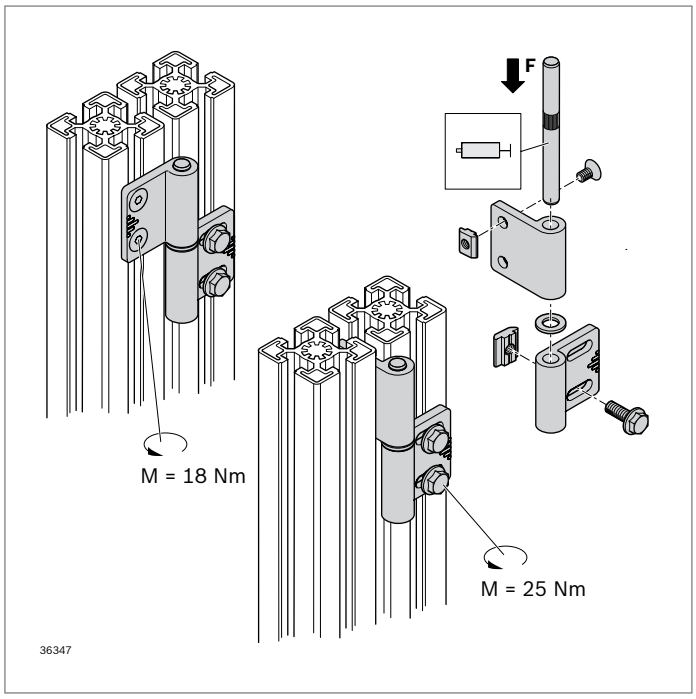



| Hinge, removable | **P1** (mm) | **P2** (mm) | | **No.** | **FS** |
|---|---|---|---|---|---|
|  | 30 | 30 | 2 | **3 842 555 572** | 2xFS1 |
| | 30 | 45 | 2 | **3 842 555 574** | 1xFS1, |
| | 30[1)] | 60 | | | 1xFS2 |
| | 45 | 45 | 2 | **3 842 555 576** | 2xFS2 |
| | 45[1)] | 60 | | | |
| | 60[1)] | 60 | | | |

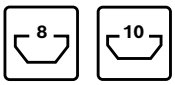
[1)] Not suitable for installing on inner side

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

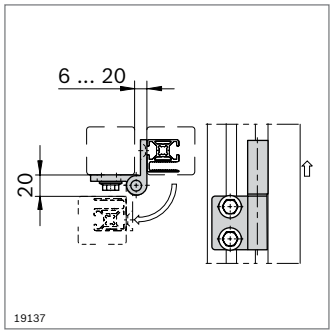


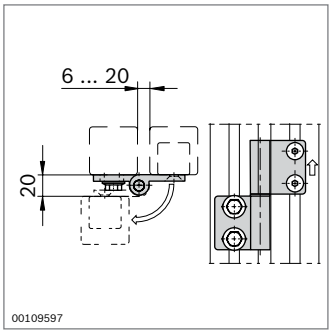

## Hinge, adjustable

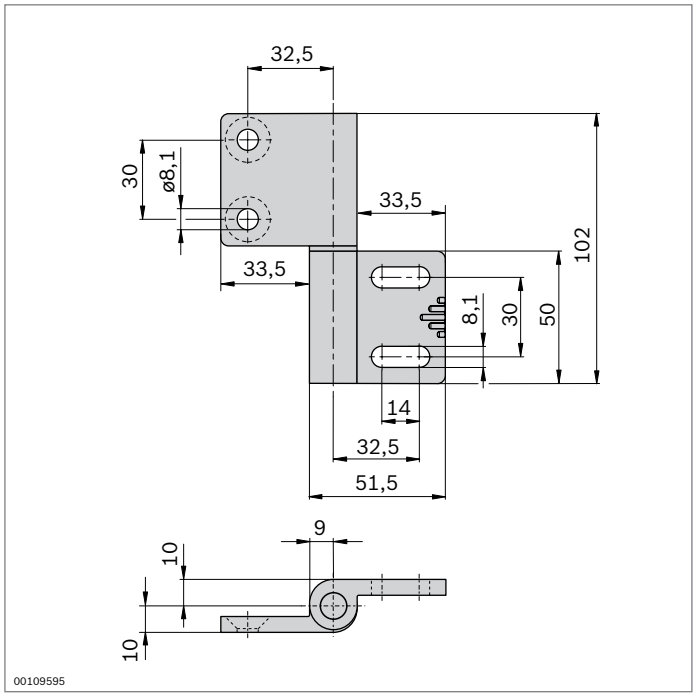



- For constructing large, heavy doors
- Adjustable for compensating clearance tolerances
- Removable
- For left and right stop
- Opening angle approx. 180°

Accessories:
T-nut slot 10, M8 (p. 3-4) for fixing a door with 10 mm slot

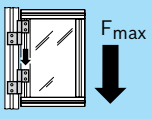


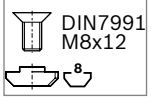




| Hinge, adjustable | | No. | FS |
|---|---|---|---|
|  | 2 | **3 842 544 562** | 2xFS1, 2xFS2 |

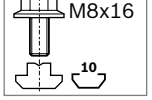
Material: Diecast aluminum
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

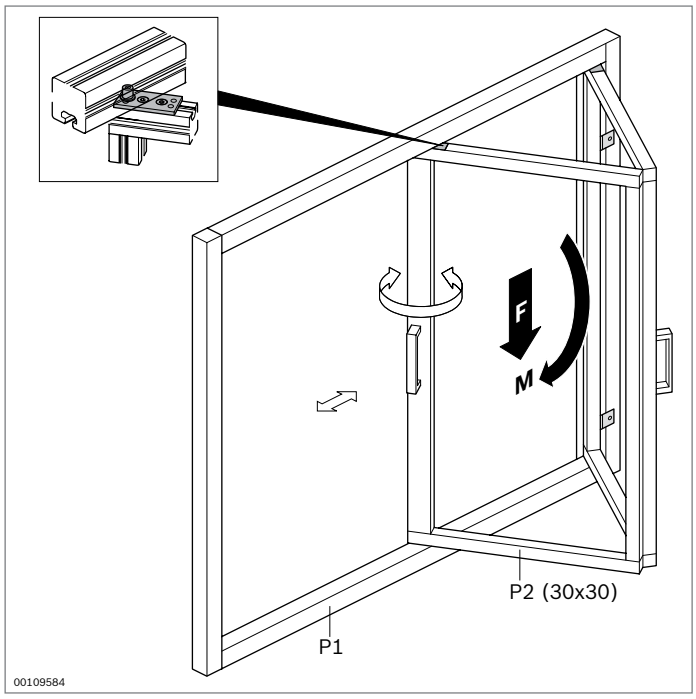
| Slot |   |
|---|---|
| 8 | 300 N |
| 10 | 300 N |

**FS1**

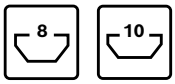



**FS2**



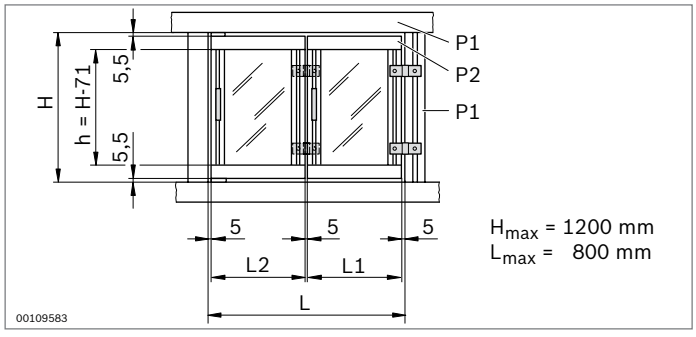



## Folding door element

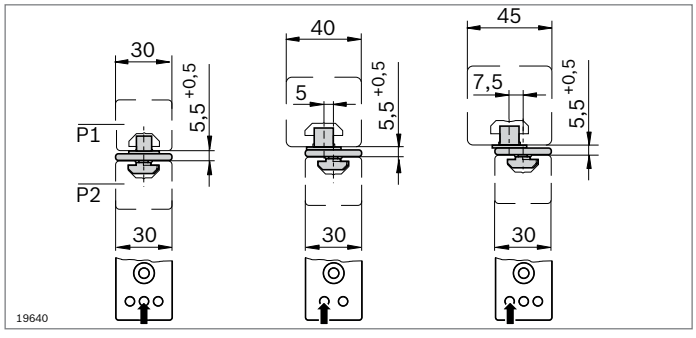


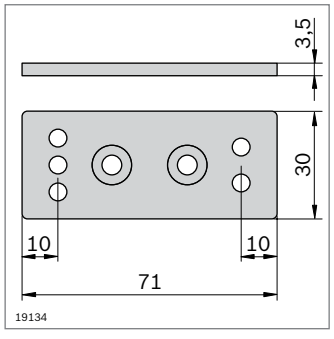

- For a simultaneous swinging and sliding action on folding doors made of 30 mm profiles
- Very long service life (approx. 50000 actuations)
- Suitable for frames made of profiles with 8 mm and 10 mm slot
- The frame and door profile are always flush (the guide ring position depends on the thickness of the frame profile)






| **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 |



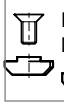



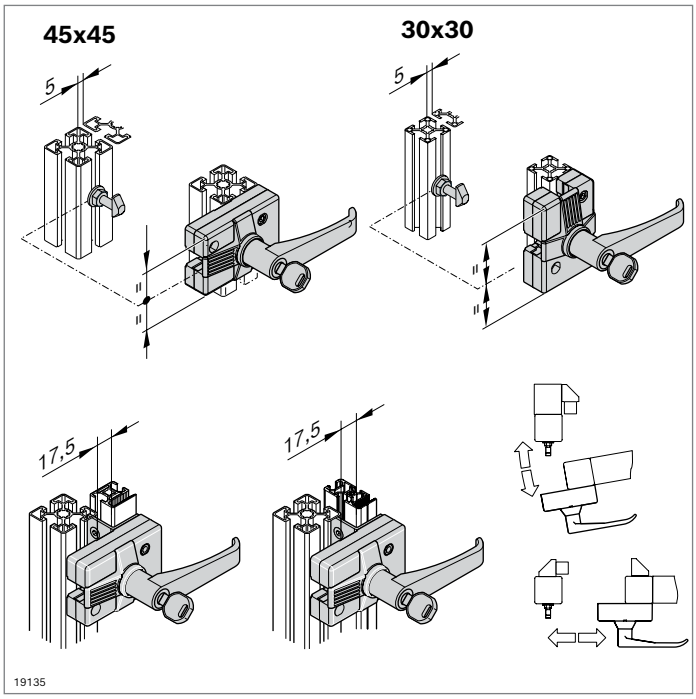

| **Slot** | $F_{max}$ | $M_{max}$ |
|---|---|---|
| 8 | 120 N | 20 Nm |
| 10 | 120 N | 20 Nm |

| **Folding door element** | **No.** | **FS** |
|---|---|---|
| | **3 842 516 715** | 2xFS1 |

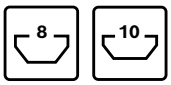
Material: Folding door element: Diecast zinc
Guide ring: PA; black
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

**FS1**



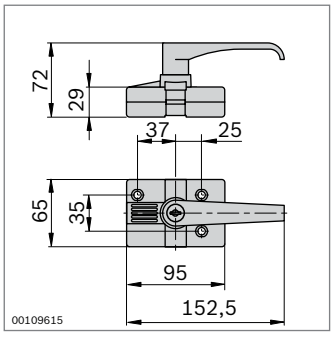



## Door lock for swing and sliding doors




- 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

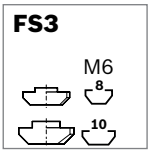
Accessories:
Adapter plate for connecting to a 22.5x45 frame profile (p. 10-41) or a WG40 or WG30 woven wire grille profile (p. 10-28)





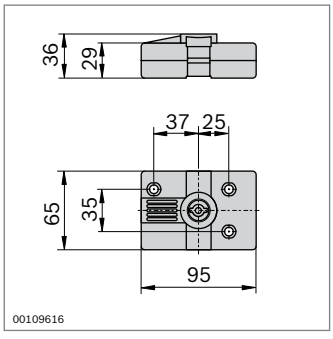





| Door lock | | No. | FS |
|---|---|---|---|
| **Standard locking** | 30x30, 45x45 | **3 842 525 821** | 2xFS1, 1xFS2, 3xFS3 |
| **Uniform locking** | 30x30, 45x45 | **3 842 525 822** | 2xFS1, 1xFS2, 3xFS3 |

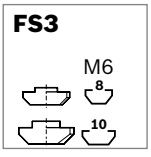
| | |
|---|---|
| Material: | Housing: Diecast aluminum<br>Door handle: PA; black<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. 3 keys, fastening material (FS) |





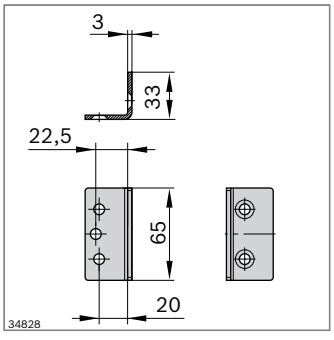


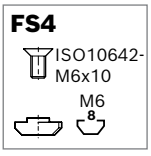


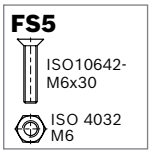




| Door lock | | No. | FS |
|---|---|---|---|
| | 30x30, 45x45 | **3 842 525 823** | 2xFS1, FS2, 3xFS3 |

| | |
|---|---|
| Material: | Diecast aluminum<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. 1 x two-way key, fastening material (FS) |



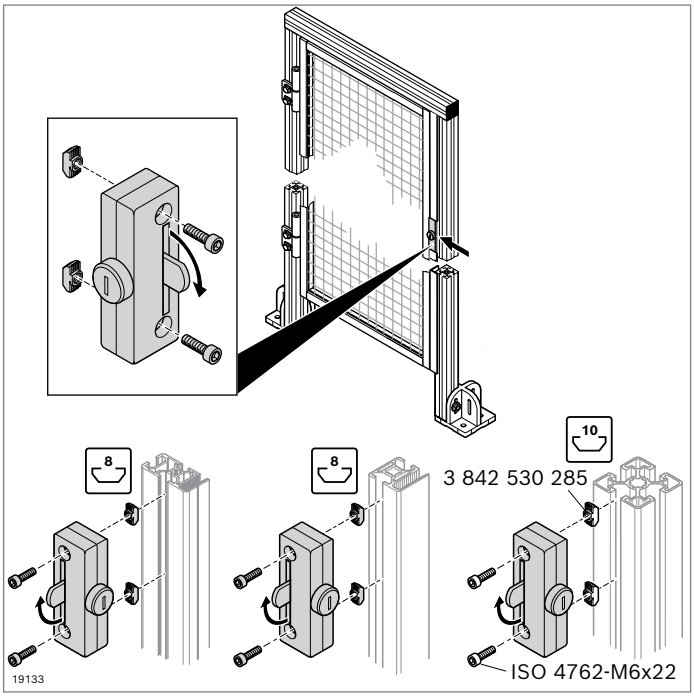



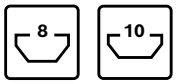

- Adapter plate for mounting the door lock on an EcoSafe protective frame (p. 10-25 ff)

| Adapter plate EcoSafe PG | ESD | No. | FS |
|---|---|---|---|
| | ⚠ | **3 842 567 960** | 2xFS4, 2xFS5 |

| | |
|---|---|
| Material: | Steel; zinc-plated |
| Scope of delivery: | Incl. Fastening material |




## Door lock

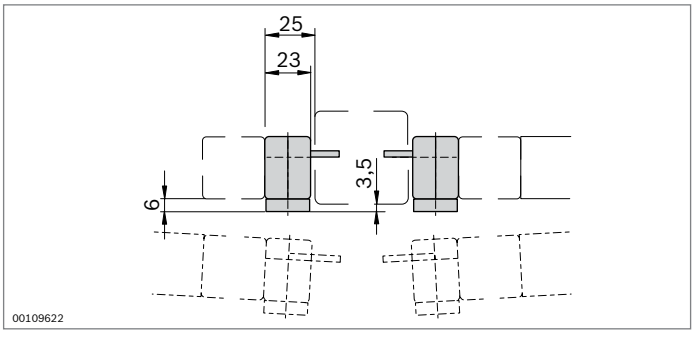


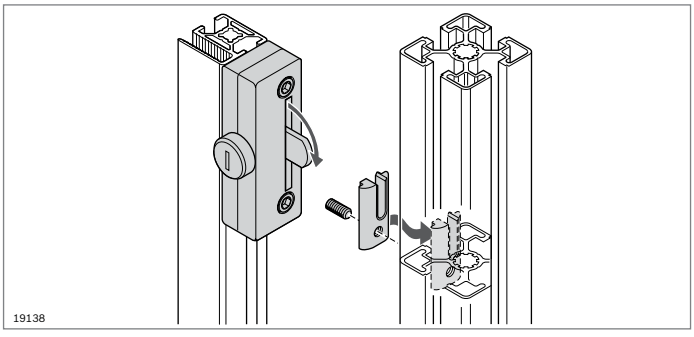

- Opening to the right and left
- For frame profile 30x30 WG (EcoSafe protective fence system); incl. fastening material
- “Standard locking” variant with random key selection (each lock has a different key)
- “Uniform locking” variant always has the same key

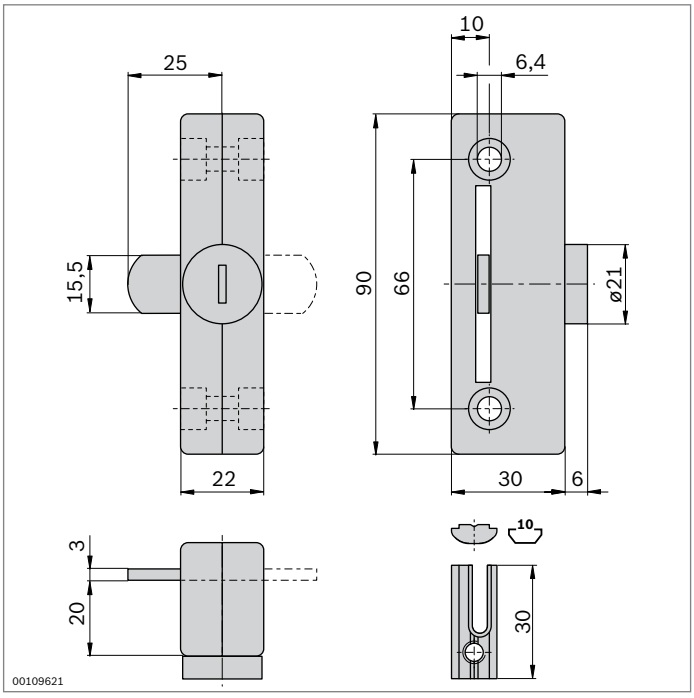
Accessories for assembly on profile with 10 mm slot:

- 2 x T-nut M6, **3 842 530 285** (p. 3-4)
- 2 x screw ISO4762 M6x22

8



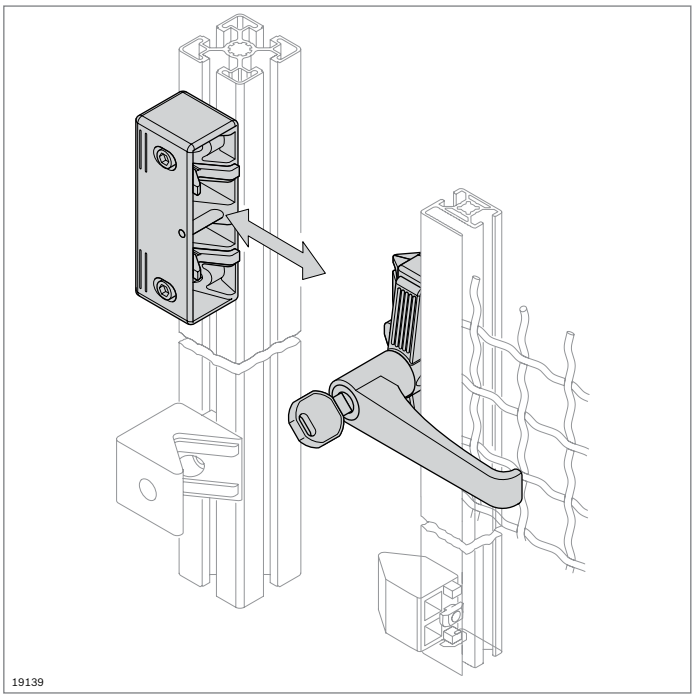




| Door lock | No. | FS |
|---|---|---|
| **Standard locking** | **3 842 522 479** | 2xFS1, 1xFS2 |
| **Uniform locking** | **3 842 571 998** | 2xFS1, 1xFS2 |

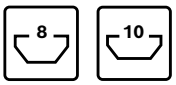
Material: Diecast zinc
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. 3 keys, fastening material (FS)

**FS1**
ISO 4762 M6x22
8

**FS2**
ISO 4027 M6x10

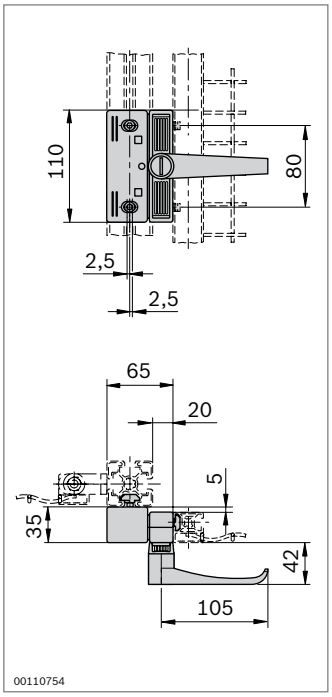



## Door lock for EcoSafe sliding doors

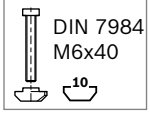



- Opening to the right and left
- “Standard locking” variant with random key selection (each lock has a different key)
- “Uniform locking” variant always has the same key

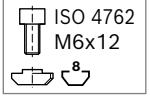
Accessories, optional:
Stop kit for cushioned closing of the doors (p. 12-5)




**FS1**

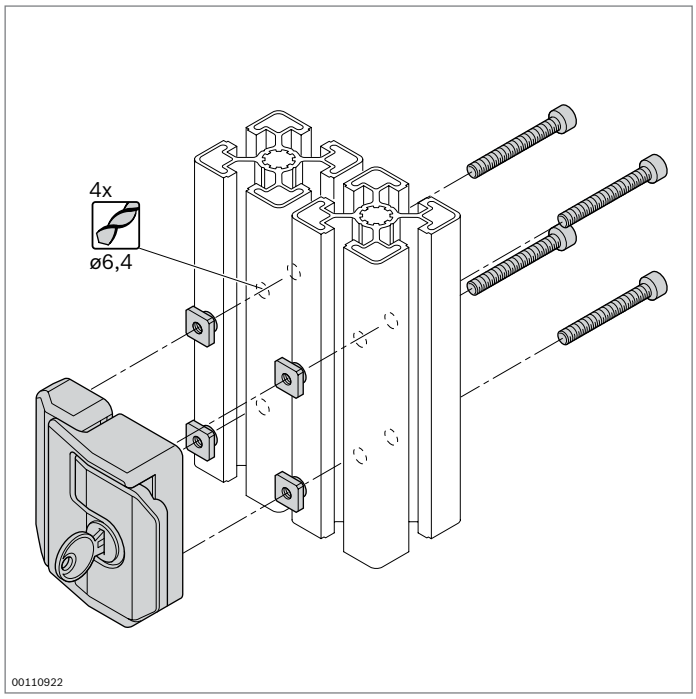



**FS2**

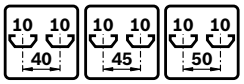



| Door lock for sliding doors | No. | FS |
|---|---|---|
| **Standard locking** | **3 842 525 946** | 2xFS1, 2xFS2 |
| **Uniform locking** | **3 842 525 947** | 2xFS1, 2xFS2 |

| | |
|---|---|
| Material: | Housing: Diecast aluminum<br>Door handle: PA; black<br>Cover cap: PA6<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. 3 keys, fastening material (FS) |

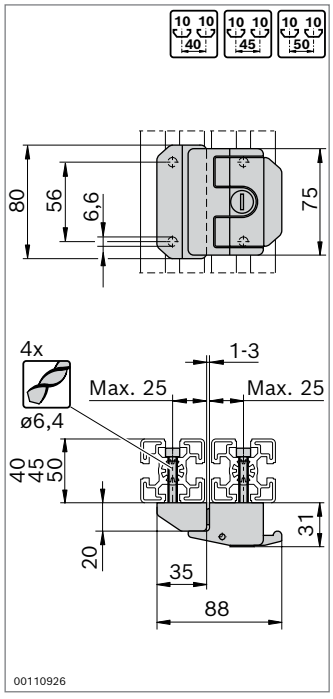



## Door lock for swing doors



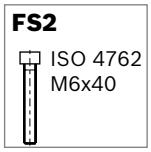

- Opening to the right and left
- Self-locking mechanism in the closed position
- Smooth closing
- Ergonomically designed folding handle for opening
- “Standard locking” variant with random key selection (each lock has a different key)
- “Uniform locking” variant always has the same key
- Profile finishing: Drill hole D6.4











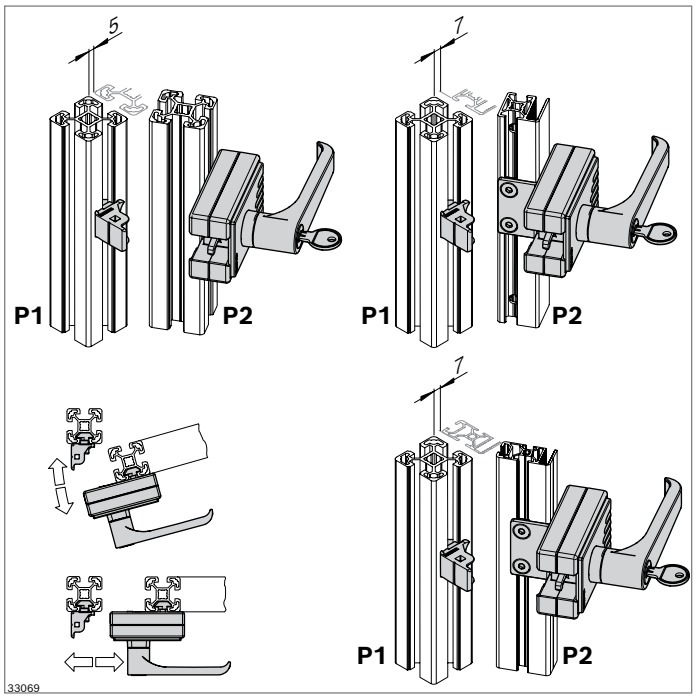




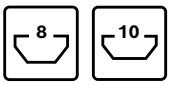



| Door lock | No. | FS |
|---|---|---|
| **Standard locking** | **3 842 530 353** | 4xFS1, 4xFS2, 4xFS3, 4xFS4 |
| **Uniform locking** | **3 842 530 352** | 4xFS1, 4xFS2, 4xFS3, 4xFS4 |

| | |
|---|---|
| Material: | Diecast zinc; black powder-coated<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. 2 keys, fastening material (FS) |



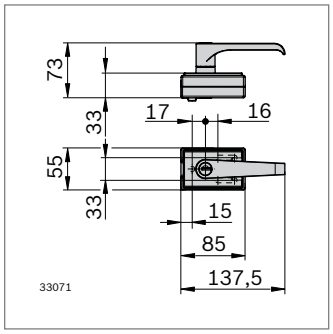

## Door lock “Multi Use” for swing and sliding doors




- 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)

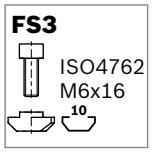
| P1 | P2 | P2 | P2 | P2 | P2 | P2 |
|---|---|---|---|---|---|---|
| 30 | 22.5x45 | WG30/40 | 30 | – | – | – |
| 40 | 22.5x45 | WG30/40 | 30 | 40 | – | – |
| 45 | 22.5x45 | WG30/40 | 30 | 40 | 45 | – |
| 50 | 22.5x45 | WG30/40 | 30 | 40 | 45 | 50 |
| 60 | 22.5x45 | WG30/40 | 30 | 40 | – | – |





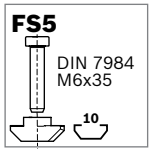




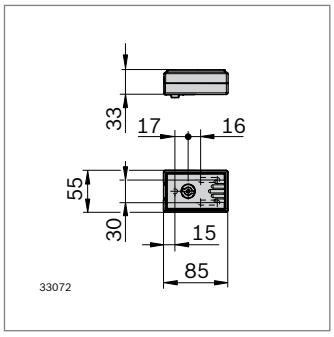







| Door lock “Multi Use” for swing and sliding doors | No. | FS |
|---|---|---|
| **Standard locking** | **3 842 548 971** | 3xFS1, FS2, FS3, 2xFS4, 2xFS5 |
| **Uniform locking** | **3 842 548 970** | 3xFS1, FS2, FS3, 2xFS4, 2xFS5 |

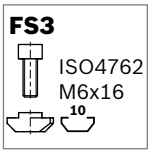
| | |
|---|---|
| Material: | Housing: Diecast zinc<br>Door handle: PA6; black<br>Cover: PP; signal gray RAL 7004<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. 3 keys, Fastening material (FS) |

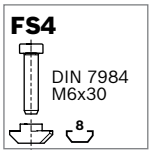


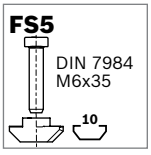






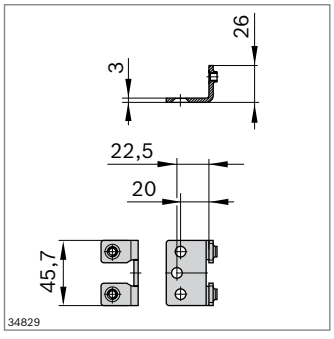



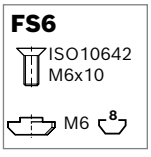




| Door lock “Multi Use” for swing and sliding doors | No. | FS |
|---|---|---|
| **Two-way lock** | **3 842 548 965** | 3xFS1, FS2, FS3, 2xFS4, 2xFS5 |

| | |
|---|---|
| Material: | Housing: Diecast zinc<br>Cover: PP; signal gray RAL 7004 Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. 1x two-way key, fastening material |



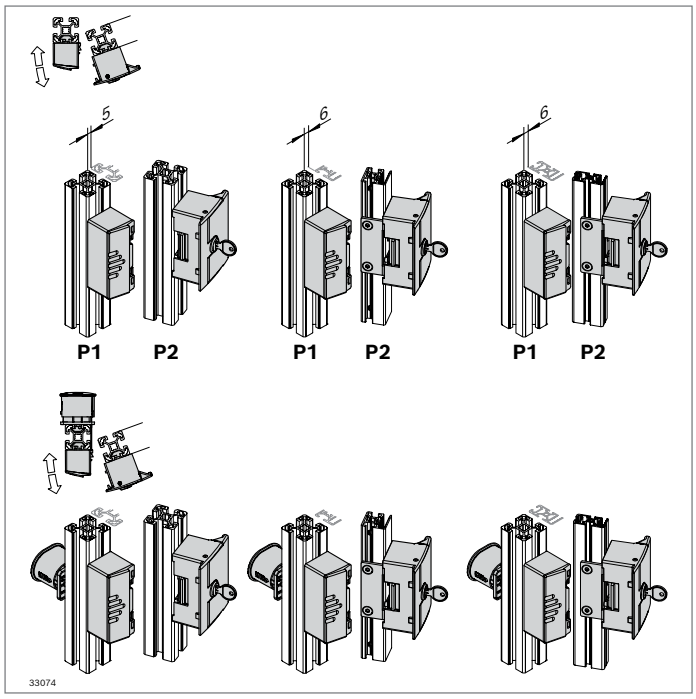





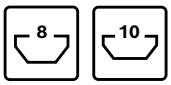


| Adapter plate Multi Use EcoSafe PG | ESD | No. | FS |
|---|---|---|---|
| | ⏚ | **3 842 567 961** | 2xFS6<br>2xFS7 |

| | |
|---|---|
| Material: | Steel; zinc-plated |
| Scope of delivery: | Incl. Fastening material |




## Door lock “Compact” for swing doors

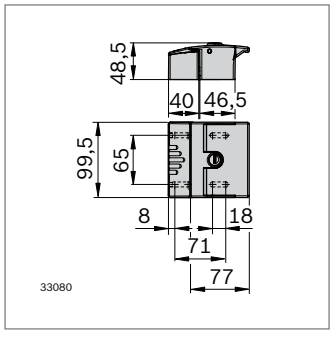



- Opening to the right and left
- For numerous profile combinations
- “Standard locking” variant with random key selection (each lock has a different key)
- “Uniform locking” variant always has the same key
- Covered fastening screws
- Installation of an emergency opening mechanism for unlocking from inside in emergency possible (Gap measurements according to assembly instructions **3 842 554 192**)
- Without profile finishing

Accessories, optional:

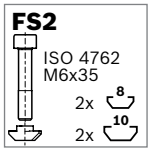
- Adapter plate for connecting to a 22.5x45 frame profile or a WG40 or WG30 woven wire grille profile (p. 10-28)
- Emergency opening mechanism (p. 8-19)

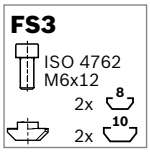
| P1 | P2 | P2 | P2 | P2 | P2 | P2 |
|---|---|---|---|---|---|---|
| 30 | 22.5x45 | WG30/40 | 30 | – | – | – |
| 40 | 22.5x45 | WG30/40 | 30 | 40 | – | – |
| 45 | 22.5x45 | WG30/40 | 30 | 40 | 45 | – |
| 50 | 22.5x45 | WG30/40 | 30 | 40 | 45 | 50 |
| 60 | 22.5x45 | WG30/40 | – | 40 | 45 | 50 |





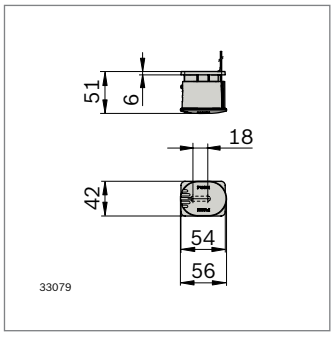


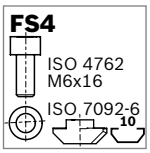



| Door lock “Compact” for swing doors | No. | FS |
|---|---|---|
| **Standard locking** | **3 842 553 640** | 4xFS1, 2xFS2, 2xFS3 |
| **Uniform locking** | **3 842 553 639** | 4xFS1, 2xFS2, 2xFS3 |

| | |
|---|---|
| Material: | Housing: Diecast aluminum<br>Cover: PP; signal gray RAL 7004 Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. 2 keys, Fastening material |



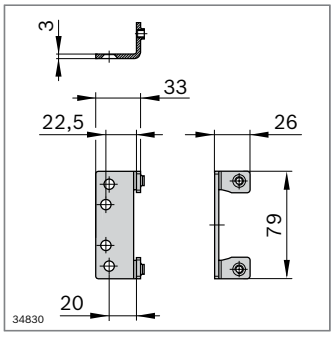



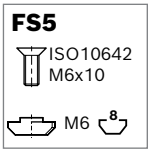

- For emergency opening of the door lock “compact” from the inside in its locked state

| Emergency unlocking | No. | FS |
|---|---|---|
| **Compact** | **3 842 554 134** | 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





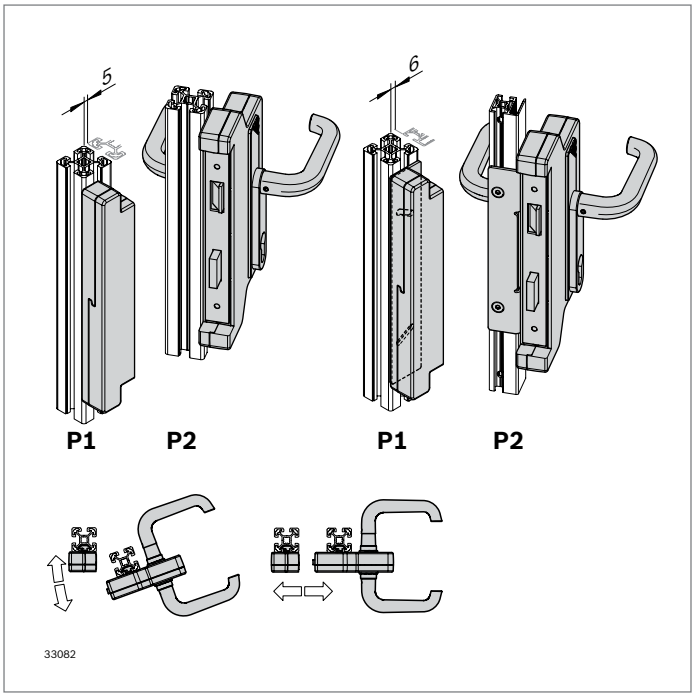


| Adapter plate Compact EcoSafe PG | ESD | No. | FS |
|---|---|---|---|
| | | **3 842 567 962** | 2xFS5, 2xFS6 |

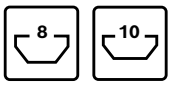
Material: Steel; zinc-plated

Scope of delivery: Incl. Fastening material

8




## Chamber lock for swing and sliding doors

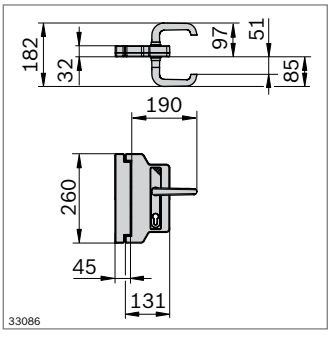


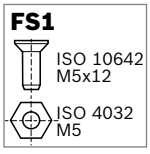

- Opening to the right and left
- For numerous profile combinations
- For installation of a standard lock cylinder (not included in the scope of delivery)
- Version with door handle, can be opened from inside and outside
- Without profile finishing
- Covered fastening screws

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)

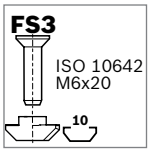
| P1 | P2 | P2 | P2 | P2 | P2 | P2 |
|---|---|---|---|---|---|---|
| 30 | 22.5x45 | WG30/40 | 30 | – | – | – |
| 40 | 22.5x45 | WG30/40 | 30 | 40 | – | – |
| 45 | 22.5x45 | WG30/40 | 30 | 40 | 45 | – |
| 50 | 22.5x45 | WG30/40 | 30 | 40 | 45 | 50 |
| 60 | 22.5x45 | WG30/40 | 30 | 40 | 45 | 50 |

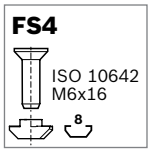




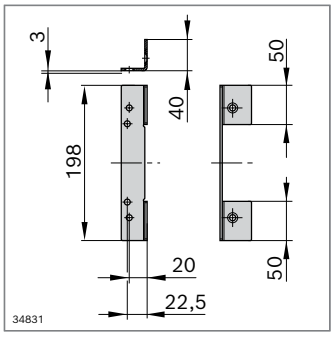


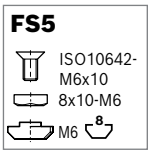


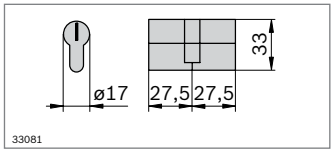




| Chamber lock | No. | FS |
|---|---|---|
| **Sliding door** | **3 842 554 151** | 4xFS1, 4xFS2, 4xFS3, 2xFS4 |
| **Swing door** | **3 842 554 150** | 4xFS1, 4xFS2, 4xFS3, 2xFS4 |

| | |
|---|---|
| Material: | Housing: PA6 signal gray (RAL7004)<br>Door handle: Aluminum; anodized<br>Fastening material: Steel; zinc-plated<br>Washer: Aluminum |
| Scope of delivery: | Incl. Fastening material |



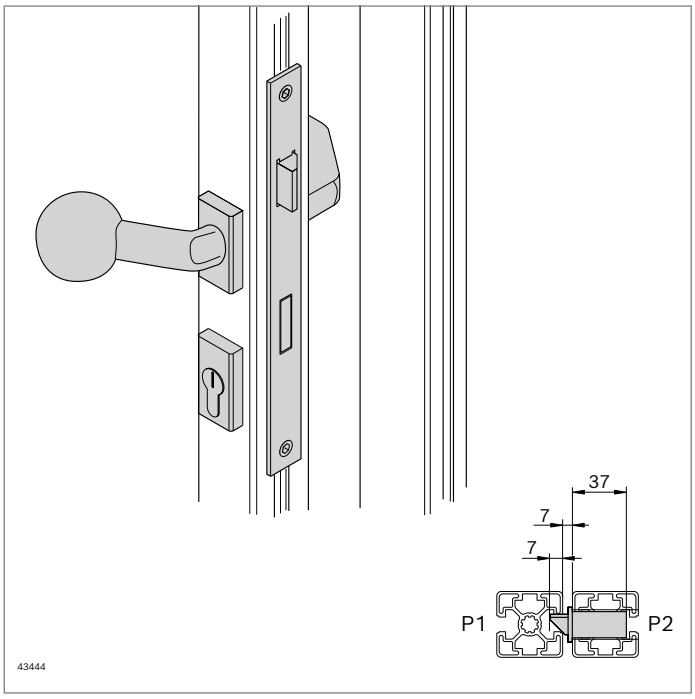




| Adapter plate Box Lock EcoSafe PG | ESD | No. | FS |
|---|---|---|---|
| | | **3 842 567 963** | 2xFS5 |

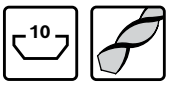
Material: Steel; zinc-plated
Scope of delivery: Incl. fastening material

- Conventional lock cylinder 27.5/27.5 (not included in the scope of delivery)

8



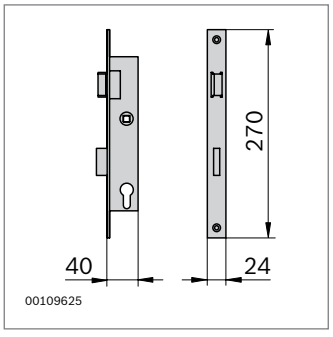

## Mortise lock for swing doors

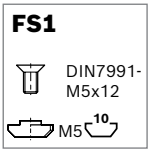



- For installation in 45x45 profiles or larger
- For installation of a standard lock cylinder (not included in the scope of delivery)
- Robust design for high loads
- Door handle in the variants: Handle/handle, Handle/knob
- Milled profile finishing

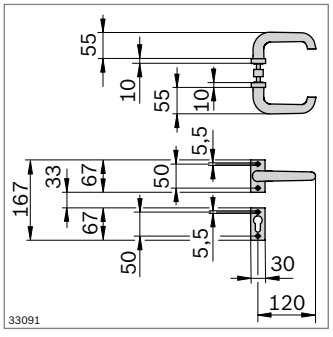
Accessories:

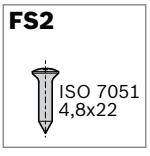
- Handle/handle
- Handle/knob
- Lock cylinder (p. 8-23)



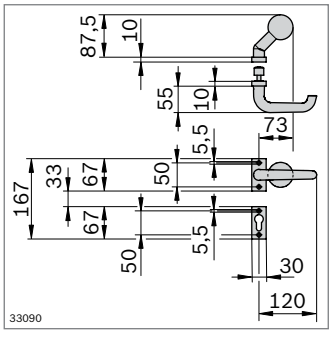




| Mortise lock | Slot | No. | FS |
|---|---|---|---|
| | 10 | **3 842 538 241** | 2xFS1 |
| Material: | Steel; zinc-plated<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | Incl. Fastening material | | |



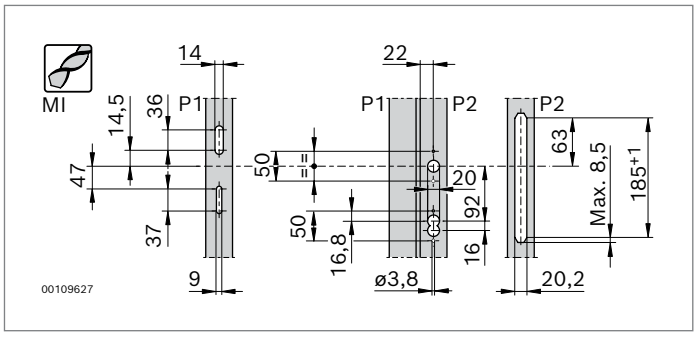

| Handle/handle | | No. | FS |
|---|---|---|---|
| | | **3 842 553 631** | 8x FS2 |
| Material: | Aluminum; anodized<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | Incl. Fastening material | | |



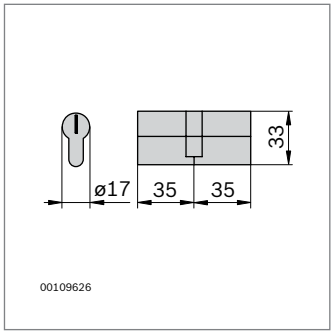




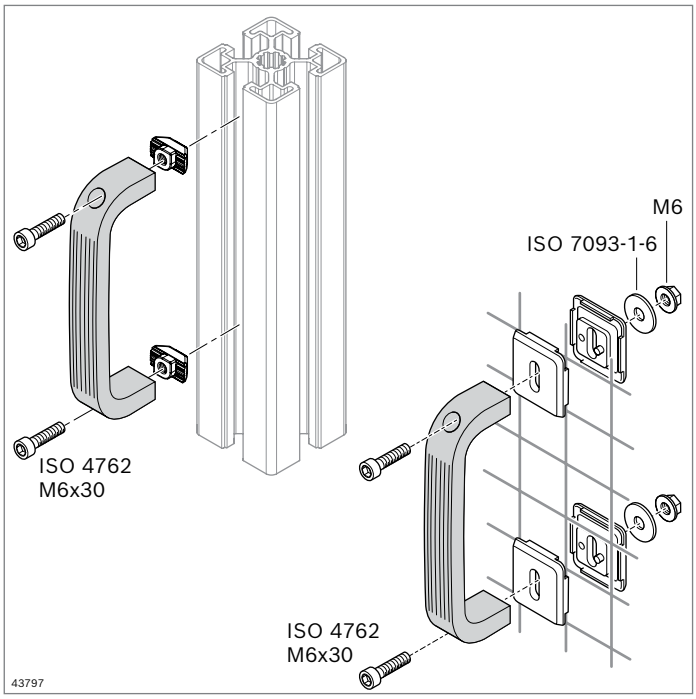
| Handle/knob | | No. | FS |
|---|---|---|---|
| | | **3 842 553 630** | 8x FS3 |
| Material: | Aluminum; anodized<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | Incl. Fastening material | | |



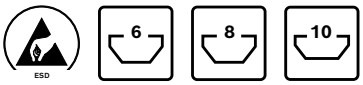

- Dimensional drawing of the profile finishing for mortise lock
- Machining type “MI” (long milling)




- Conventional lock cylinder 35/35 (not included in the scope of delivery)




## Bow-type handle




**Bow-type handle**

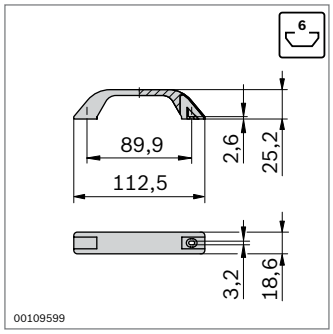
- Robust construction equipped to withstand strong forces
- Fastening in the profile slot or on a woven wire grille with the clamping element
- Suitable for use in ESD-protected environments

Required accessories:

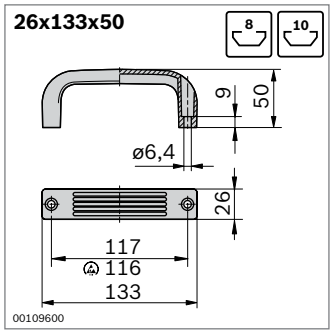
- For bow-type handle N6:
  - Sliding block 6 M3 (p. 3-7)
  - Cylinder head screw M3x8 ISO 4762
- For bow-type handle N8:
  - T-nut 8 M6 (p. 3-4)
  - Cylinder head screw M6x16 ISO 4762
- For bow-type handle N10:
  - T-nut 10 M6 (p. 3-4)
  - Cylinder head screw M6x30 ISO 4762

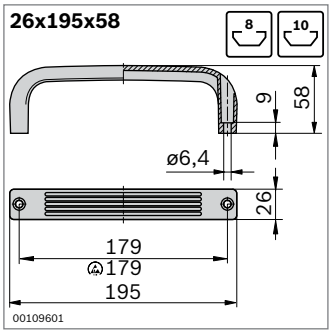
Accessories, optional:

- Clamping element for mounting on woven wire grille (p. 10-43)
- T-nut (p. 3-4)

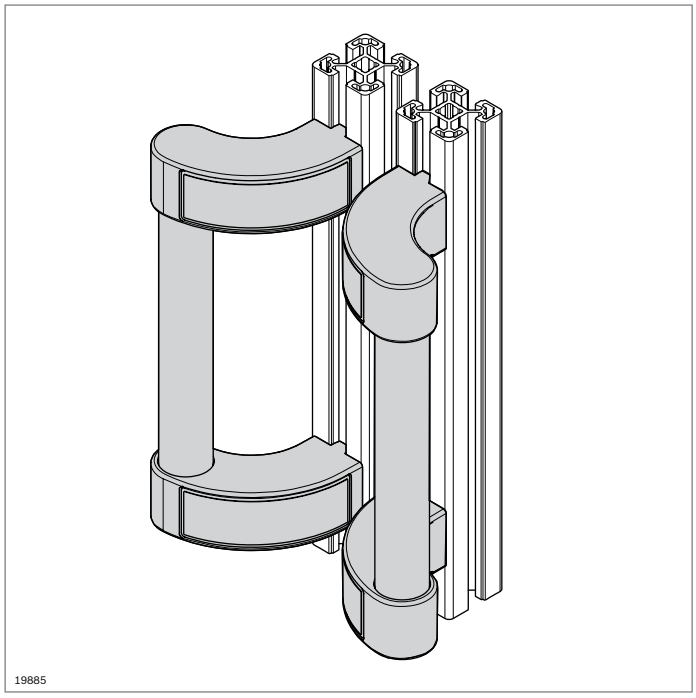



| Bow-type handle | Color | | No. |
|---|---|---|---|
| | Signal gray RAL 7004 | 10 | **3 842 554 716** |
| Material: | PA | | |




| Bow-type handle | Color | ESD | | No. |
|---|---|---|---|---|
| **26x133x50** | Signal gray RAL 7004 | | 10 | **3 842 554 718** |
| | Black | ESD | 10 | **3 842 525 481** |
| **26x195x58** | Signal gray RAL 7004 | | 10 | **3 842 554 720** |
| | Black | ESD | 10 | **3 842 525 767** |
| Material: | PA | | | |

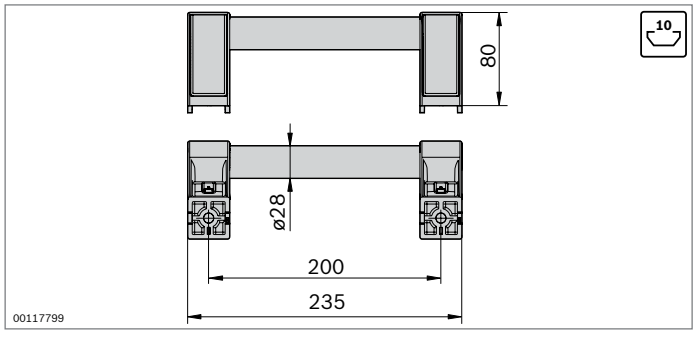



## Safety handle

10

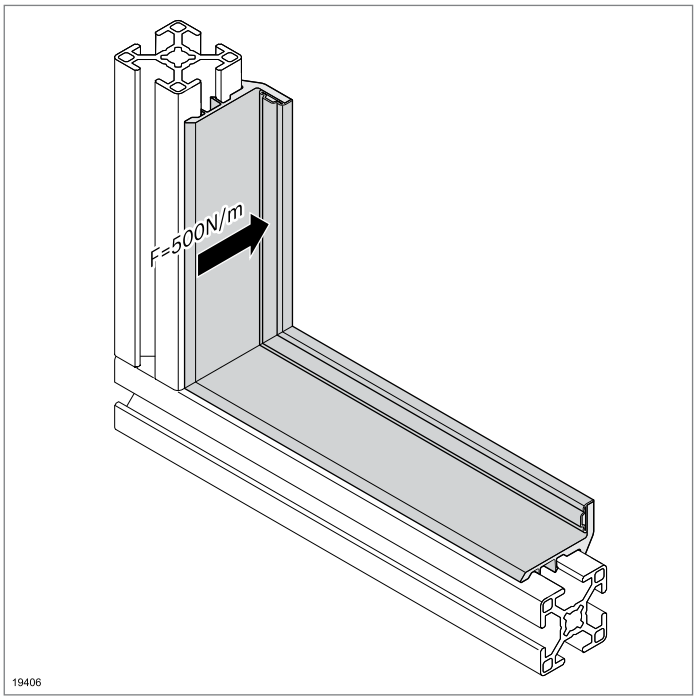
- Prevents injuries caused by catching of body parts when closing sliding doors
- Suitable for sliding or swing doors
- The length of the handle can be varied by changing the tube D28



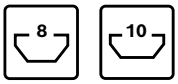



| Safety handle | | No. | FS |
|---|---|---|---|
| | | **3 842 555 564** | 2xFS1 |
| Material: | Round tube D28: Aluminum; anodized<br>Holder: PA; signal gray RAL 7004 | | |
| Scope of delivery: | Incl. fastening material (FS) | | |

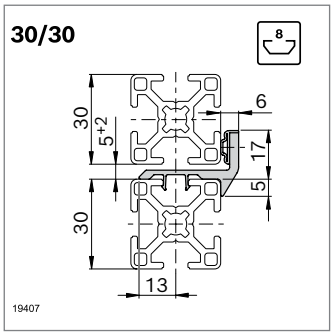




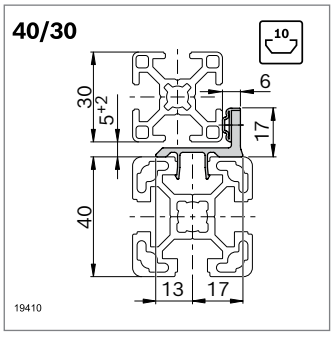

## Sealing strip

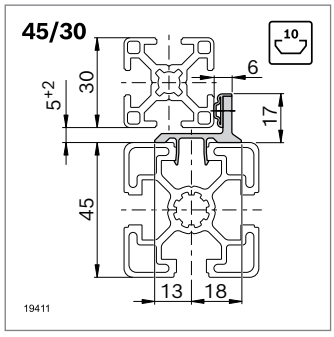



- For sealing doors (width > 500 mm) with an elastic lip seal
- Can be clipped into the slot
- Non-transparent elastic lip seal covers the door gap
- Stop for swing doors (impact force: 500 N/m)

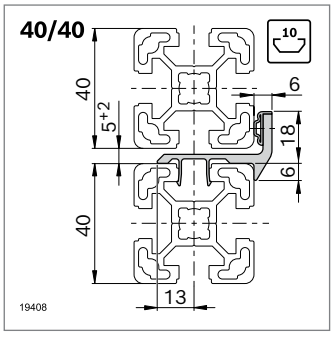


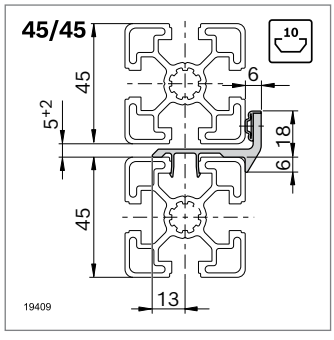

| Sealing strip | L (mm) | | No. |
|---|---|---|---|
| **30/30** | 3000 | 10 | **3 842 555 554** |
| Material: | PVC/NBR; signal gray RAL 7004 | | |



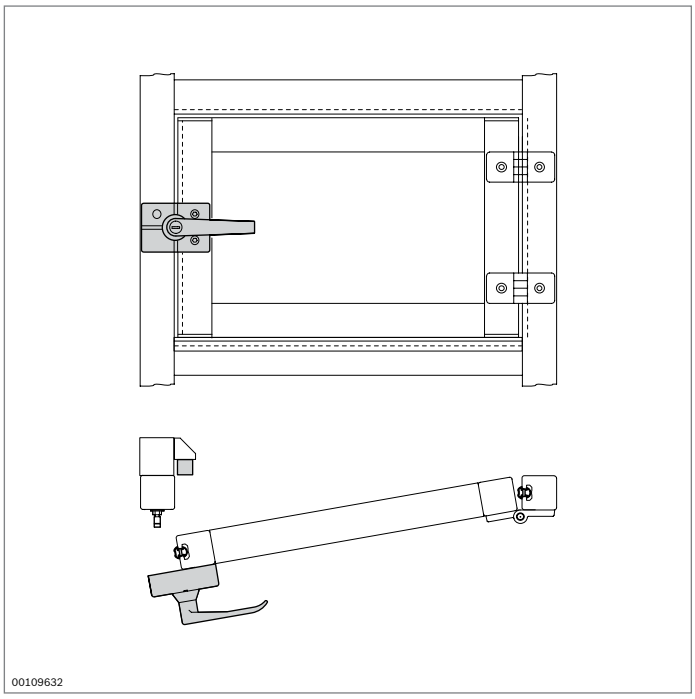




| Sealing strip | L (mm) | | No. |
|---|---|---|---|
| **40/30** | 3000 | 10 | **3 842 555 562** |
| **45/30** | 3000 | 10 | **3 842 555 560** |
| Material: | PVC/NBR; signal gray RAL 7004 | | |

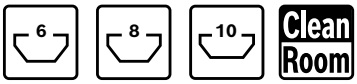



| Sealing strip | L (mm) | | No. |
|---|---|---|---|
| **40/40** | 3000 | 10 | **3 842 555 558** |
| **45/45** | 3000 | 10 | **3 842 555 556** |
| Material: | PVC/NBR; signal gray RAL 7004 | | |

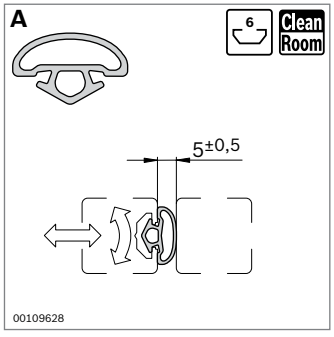


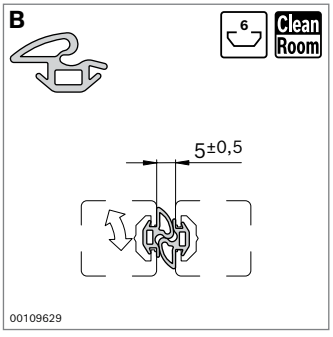

## Sealing profile




- For sliding and swing doors
- Prevents particles from entering or escaping



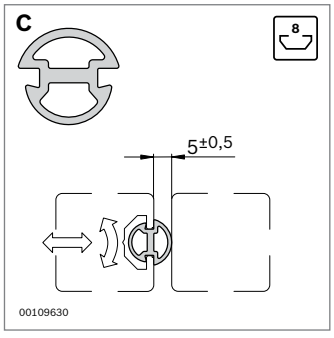


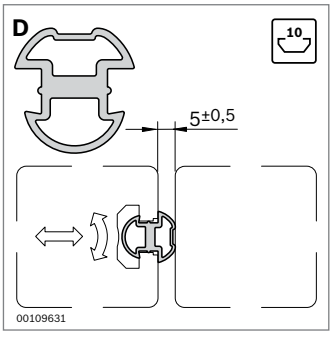




- Suitable for use in cleanroom environments
- Two-piece seal (**B**) also performs a stop function.
- Tested for emission of volatile organic substances at room temperature.
  Report No. BO2112-1289

| Sealing profile | Slot | L (mm) | No. |
|---|---|---|---|
| **A** | 6 | 10000 | **3 842 554 728** |
| **B** | 6 | 10000 | **3 842 554 730** |

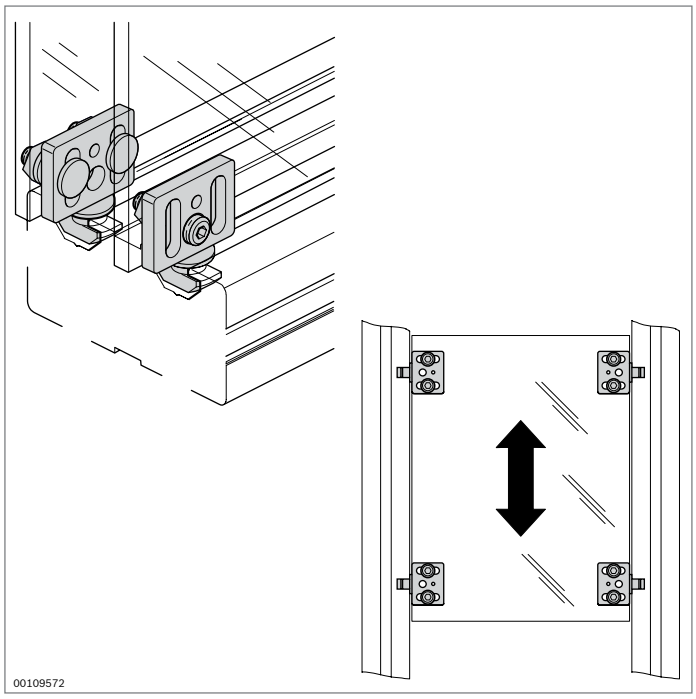
Material: TPE; signal gray RAL 7004, hardness: 64° ±5 Shore A




| Sealing profile | Slot | L (mm) | No. |
|---|---|---|---|
| **C** | 8 | 10000 | **3 842 516 598** |
| **D** | 10 | 10000 | **3 842 518 492** |

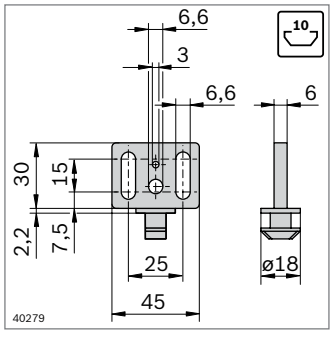
Material: NBR; black, hardness 60° Shore A



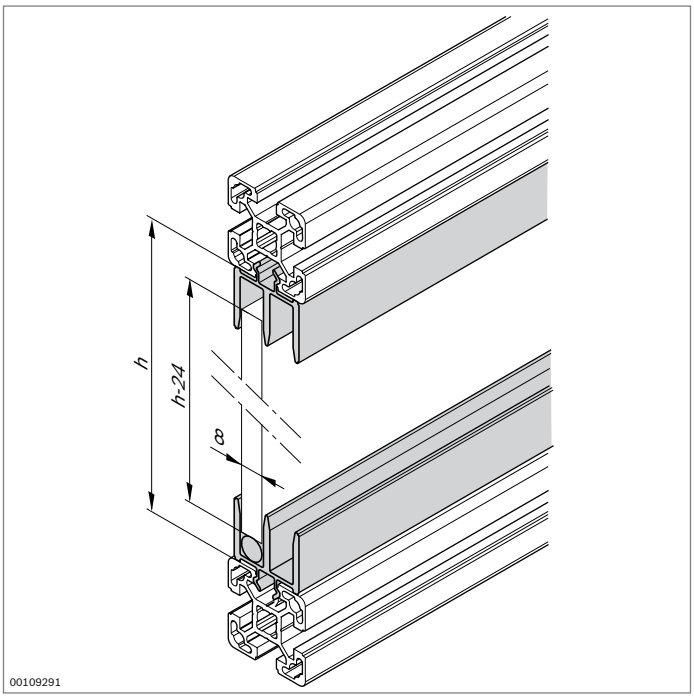

## Slider



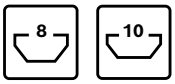

- For constructing inexpensive sliding and lifting doors
- Good functional reliability




| Slider | | No. |
|---|---|---|
| | 10 | **3 842 564 170** |
| Material: | POM; signal gray RAL 7004 | |




## Sliding door profile PVC clip-in

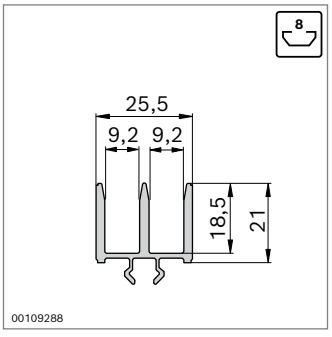



- Can be clipped into the supporting frame made of strut profiles
- Round bar to minimize the displacement force required
- For panel elements of a thickness of 8 mm
- Insertion of the panel element into closed frame

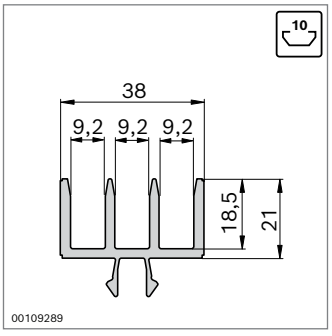
Accessories, optional:

- Edge protector (p. 8-33)
- Door handle profile (p. 8-33)
- Bow-type handle (p. 8-24)

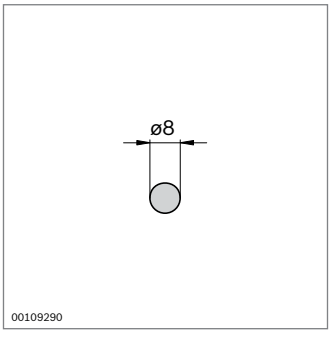




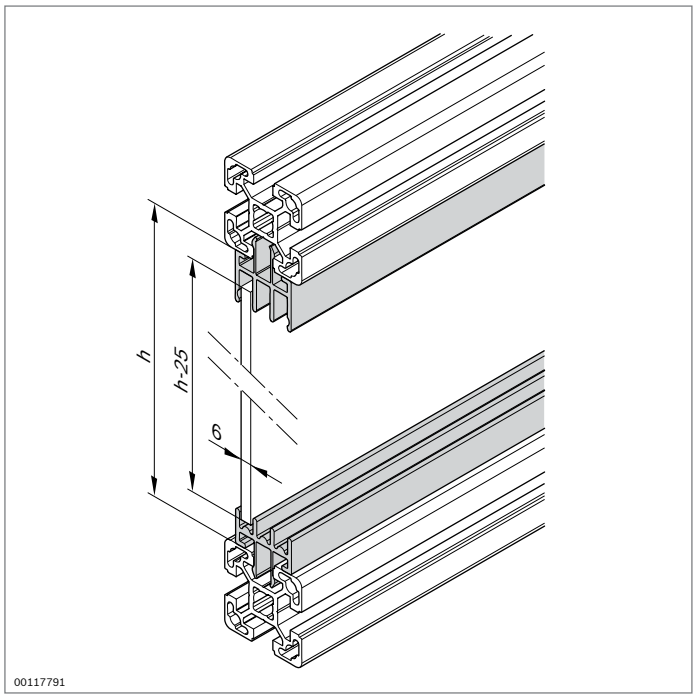

| Sliding door profile PVC clip-in | Slot | L (mm) | | No. |
|---|---|---|---|---|
| | 8 | 2000 | 10 | **3 842 555 262** |
| Material: | PVC; signal gray RAL 7004 | | | |




| Sliding door profile PVC clip-in | Slot | L (mm) | | No. |
|---|---|---|---|---|
| | 10 | 2000 | 10 | **3 842 555 260** |
| Material: | PVC; signal gray RAL 7004 | | | |



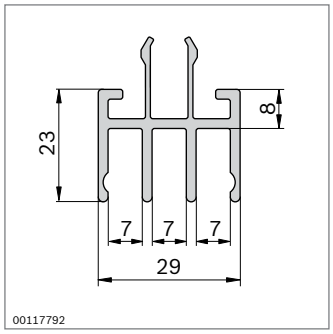

| Round bar | L (mm) | | No. |
|---|---|---|---|
| | 2000 | 10 | **3 842 516 694** |
| Material: | POM; black | | |




## Sliding door profile Al clip-in

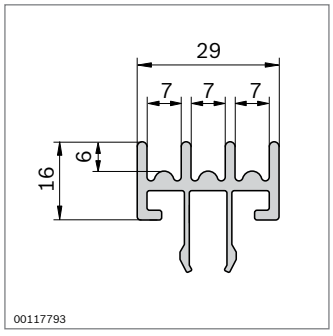



- Can be clipped into the supporting frame made of strut profiles
- Sliding door profile, bottom, with half-round floor contour to minimize the displacement force required
- For panel elements with a thickness of 5 or 6 mm
- Insertion of the panel element into closed frame



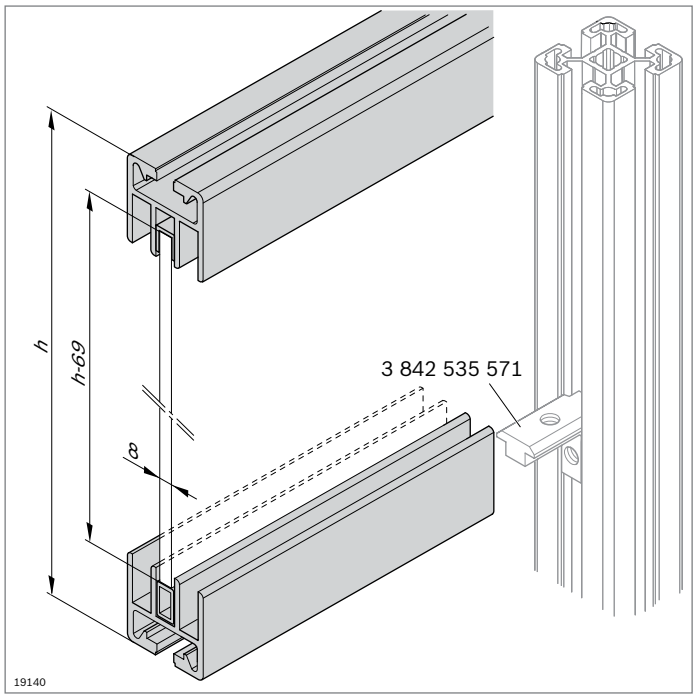

| Sliding door profile, top | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 40 ... 3000 | **3 842 993 425 / L** |
| 10 pcs | | 3000 | **3 842 536 531** |

Material: Aluminum; anodized




| Sliding door profile, bottom | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 40 ... 3000 | **3 842 993 426 / L** |
| 10 pcs | | 3000 | **3 842 536 532** |

Material: Aluminum; anodized




# Sliding door profile Al 45
# Cover cap, end piece

10

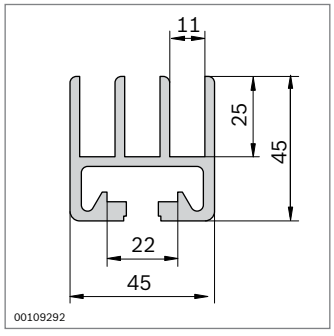
### Sliding door profile Al 45

- 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

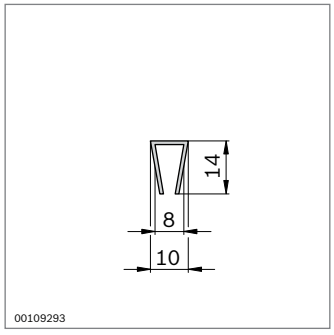
Accessories:

- Cover cap (p. 8-32)
- End piece (p. 8-32)
- Inner bracket (p. 3-15), inner bracket R (p. 3-16)

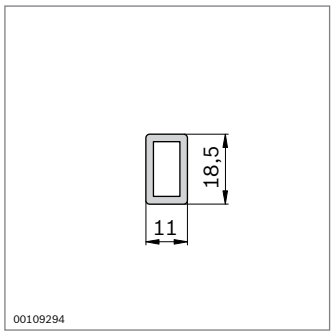
8



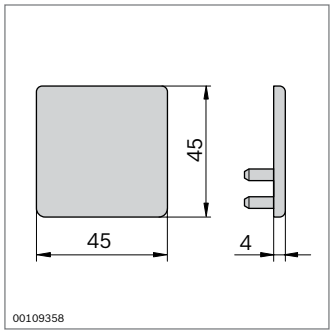

| Sliding door profile | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 100 ... 6070 | **3 842 990 115 / L** |
| 1 pc F1 | F1 | 100 ... 6000 | **3 842 990 116 / L** |
| 1 pc | | 6070 | **3 842 558 305** |
| 20 pcs | | 6070 | **3 842 557 943** |
| Material: | Aluminum; anodized | | |




| Glide profile | | L (mm) | | No. |
|---|---|---|---|---|
| | | 3000 | 10 | **3 842 554 724** |
| Material: | Hard PVC; signal gray RAL 7004 | | | |



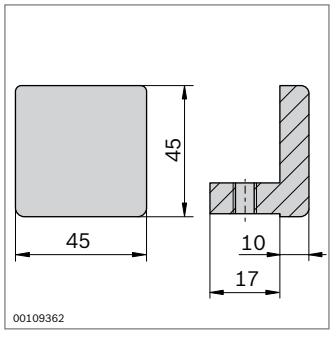

| Insertion profile | L (mm) | | No. |
|---|---|---|---|
| | 3000 | 10 | **3 842 554 726** |
| Material: | PA; signal gray RAL 7004 | | |




**Cover cap**

- As a design element and to prevent injuries

| Cover cap | Color | ESD | No. |
|---|---|---|---|
| | Signal gray | 20 | **3 842 551 662** |
| Material: | PP; signal gray RAL 7004 | | |




**FS1**

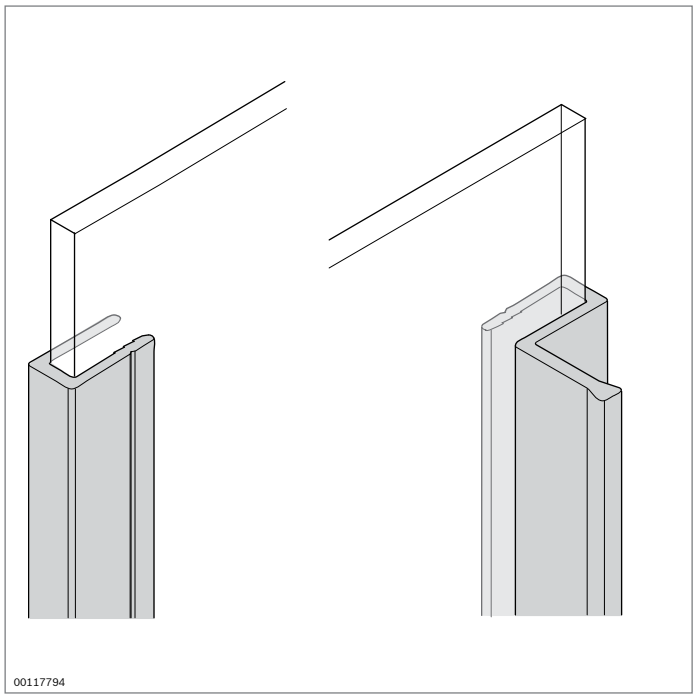


DIN 916
M8x16

**End piece**

- For use as a stop for sliding elements
- Clamping with setscrew in the profile slot

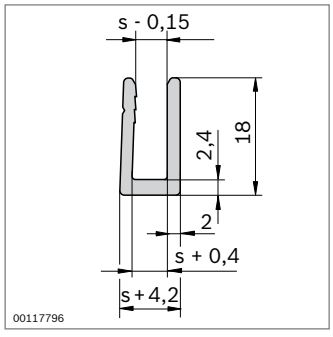
| End piece | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 191 194** | FS1 |
| Material: | Diecast aluminum | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | |




# Edge protector
# Door handle profile

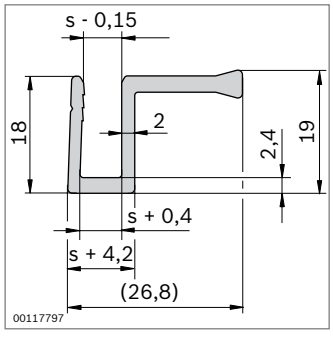
- For reinforcing frameless panel elements on sliding doors
- Profile for s = 6 mm can also be used for 1/4 inch plates






| Edge protector | | s (mm) | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 5 | 40 ... 3000 | **3 842 993 429 / L** |
| 10 pcs | | 5 | 3000 | **3 842 536 537** |
| 1 pc | | 6 | 40 ... 3000 | **3 842 993 430 / L** |
| 10 pcs | | 6 | 3000 | **3 842 536 540** |

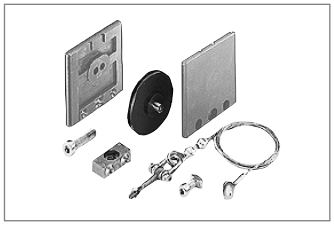
Material: Aluminum; anodized



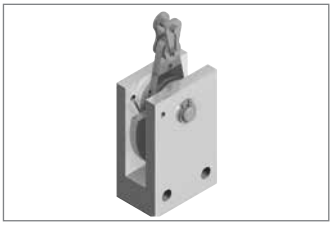

| Door handle profile | | s (mm) | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 5 | 40 ... 3000 | **3 842 993 427 / L** |
| 10 pcs | | 5 | 3000 | **3 842 536 533** |
| 1 pc | | 6 | 40 ... 3000 | **3 842 993 428 / L** |
| 10 pcs | | 6 | 3000 | **3 842 536 536** |

Material: Aluminum; anodized

# Accessories for protective equipment



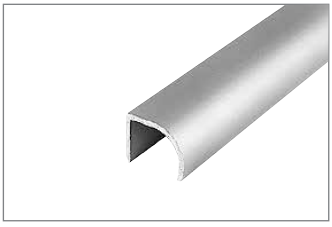
Counterbalance
(p. 9-2)



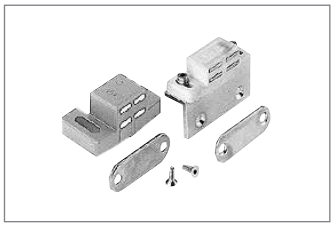
Safety catch (p. 9-4)



Bumper (p. 9-5)



Handle bar (p. 9-5)



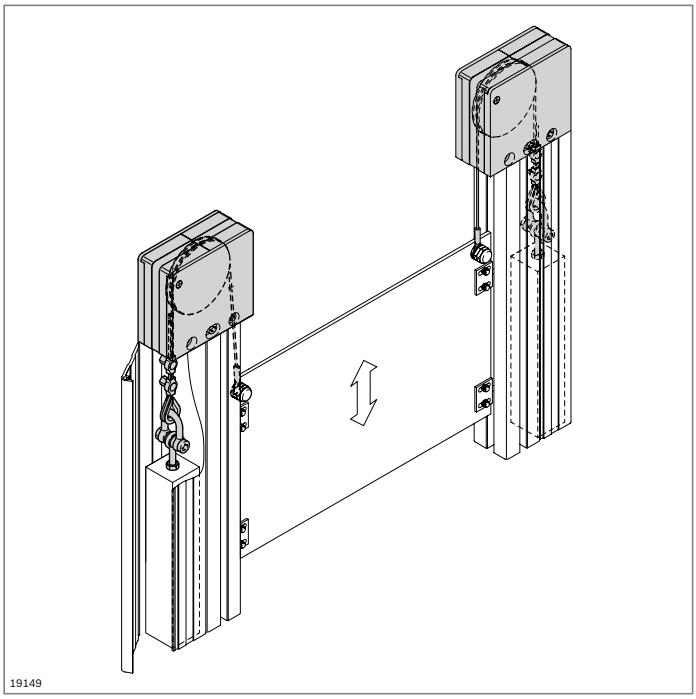
Magnet catch (p. 9-6)



Double ball stop latch
(p. 9-7)



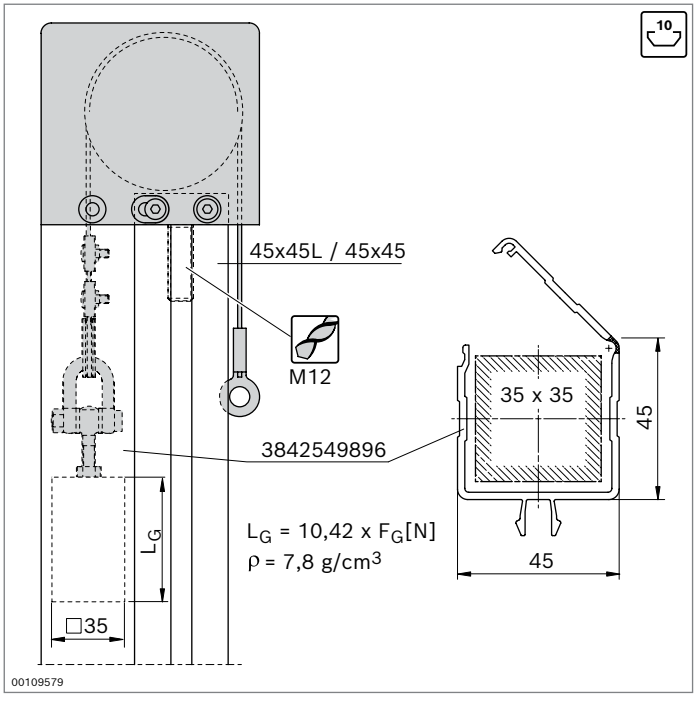
Ball catch (p. 9-8)



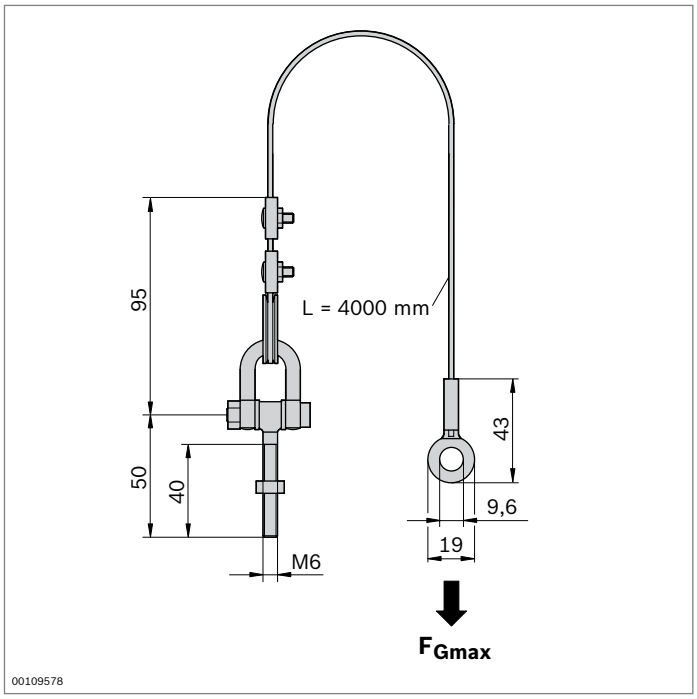

## Counterbalance

- 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

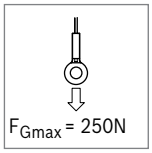
Required accessories:
Counterbalance weight (square profile 35x35 mm)



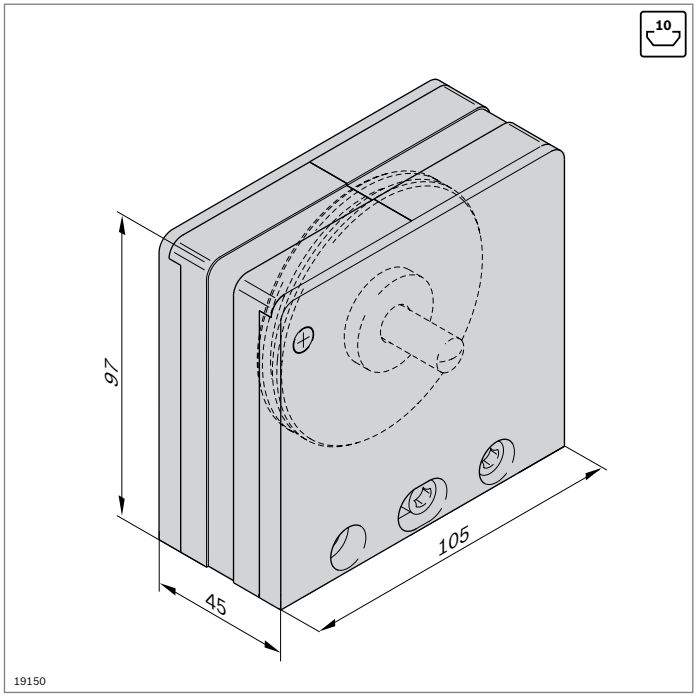

Accessories, optional:
- Cable duct 45x45 (p. 11-2)
- Slider (p. 12-3/8-28)
- Safety catch (p. 9-4)



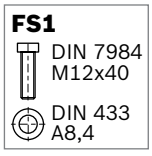

| Counterbalance control cable | No. |
|---|---|
| | **3 842 518 798** |
| Material: | Steel; stainless |



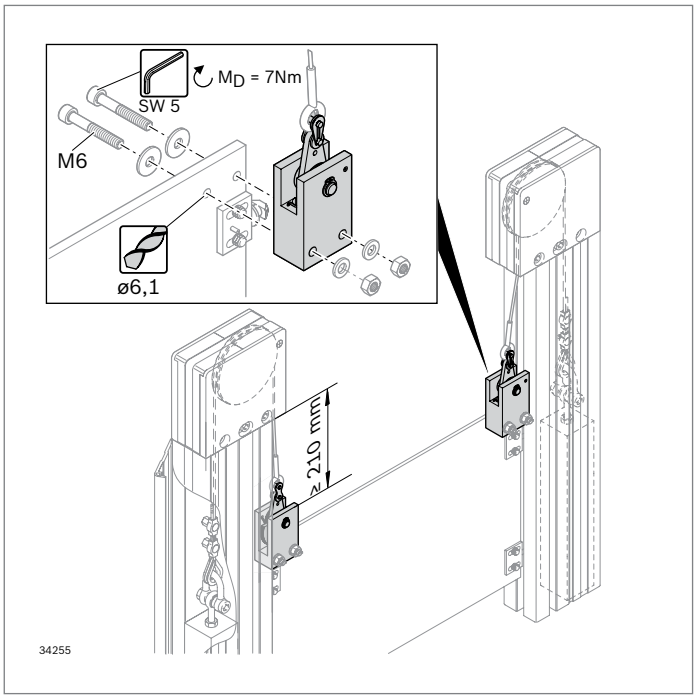


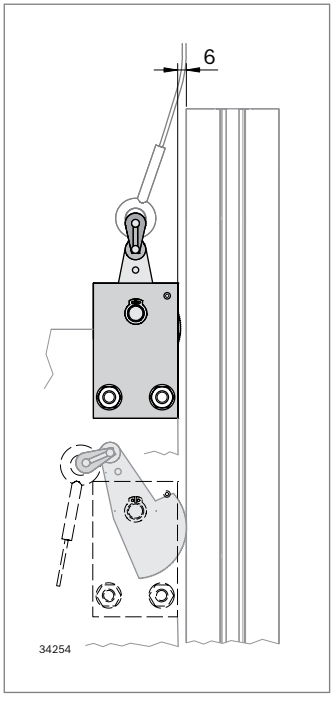



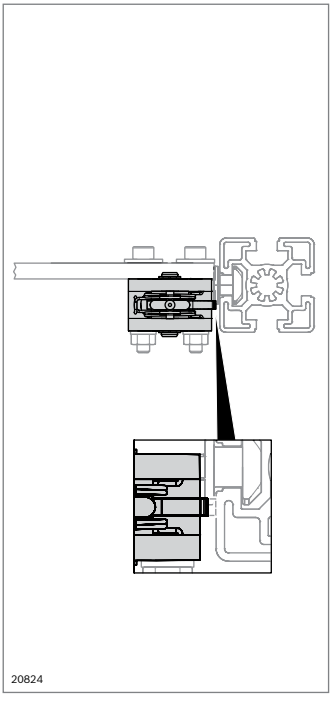

| Counterbalance deflection pulley | No. | FS |
|---|---|---|
| | **3 842 555 566** | FS1, FS2 |
| Material: | Housing: PA; signal gray (RAL 7004)<br>Fastening material: Steel; zinc-plated | |
| Scope of delivery: | Incl. fastening material (FS) | |

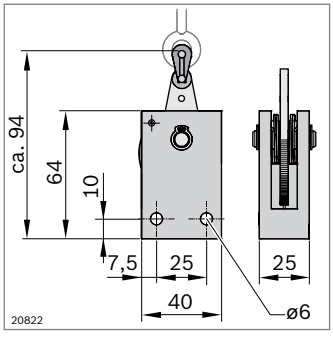


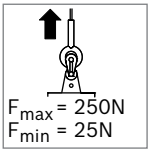



## Safety catch

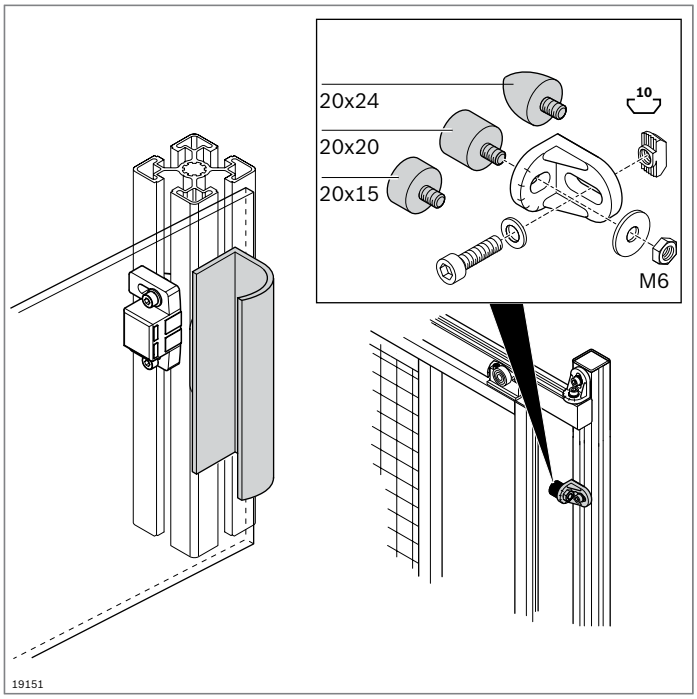



- The safety catch in conjunction with the other components prevents a lifting door from falling if a cable breaks
- If a cable breaks, the revolving part of the safety catch jams against a counterbearing and is wedged in position in the guide profile
- Gap dimension between safety catch body and lateral 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<br>Turntable: Steel; stainless<br>Bolt: Steel; hardened<br>Chain lock: Steel; nickel-plated<br>Spacer disk: POM | |
| Scope of delivery: | Incl. chain lock for securing the cable | |
| Condition on delivery: | Assembled | |




# Bumper
# Handle bar

## Bumper

- For damping impact and noise on doors, flaps, and covers

Accessories:
Nut, T-nut M6 (p. 3-4)

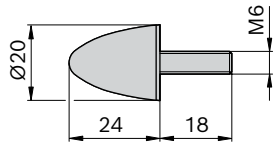
## Handle bar

- Can be used, for example, on covers, drawers, or doors
- Machining: Drill holes for fixing

Required accessories:
Fastening material

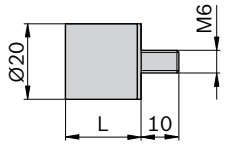


**20x24**

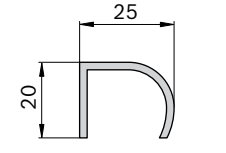



| Bumper | | | No. |
|---|---|---|---|
| **20x24** | | 10 | **3 842 510 165** |
| Material: | NBR; hardness 55° Shore A | | |

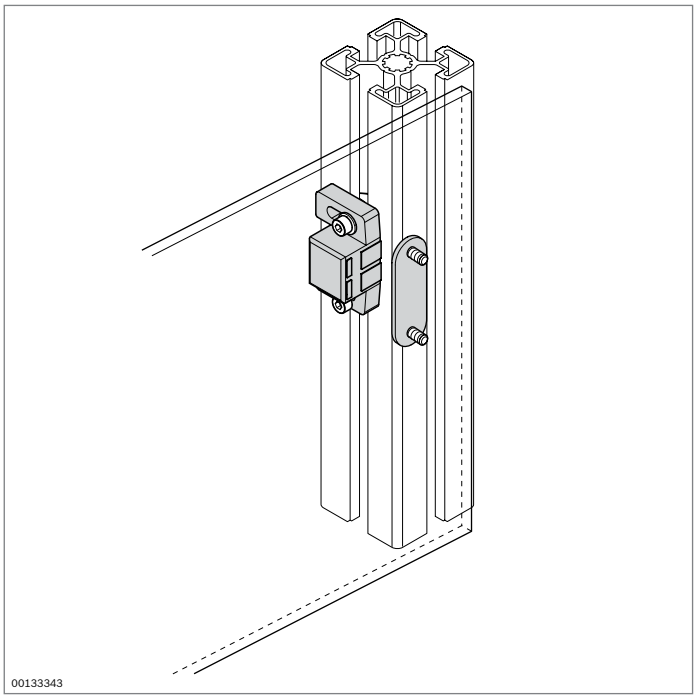
**20x15, 20x20**




| 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 | | |

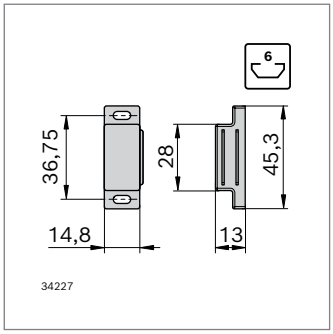


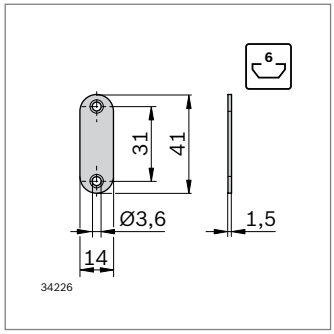

## Magnet catch




- The magnet catch prevents doors and flaps from banging or being unintentionally opened
- Elongated holes to compensate for different panel element thicknesses

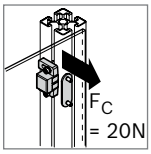
Accessories:
Cylinder bolt ISO 4762, washer, T-nut (p. 3-4)

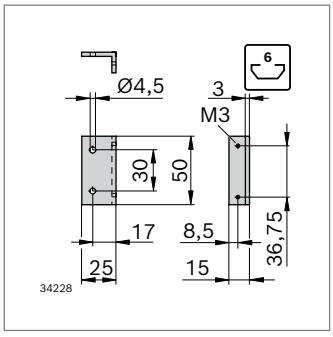


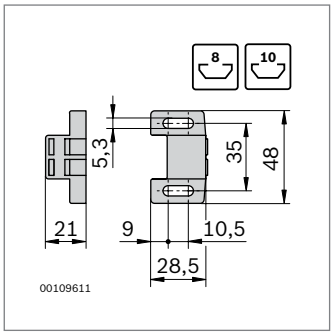



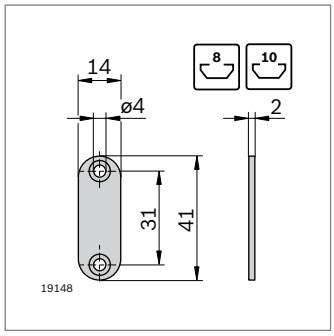

| Magnet catch | Slot | No. | FS |
|---|---|---|---|
| | 6 | **3 842 558 323** | 2xFS1 |
| Material: | PP; white / steel; zinc-plated | | |
| Scope of delivery: | Incl. counterpiece, bracket, fastening material (FS) | | |

**FS1**
ISO 4762
M3x8
DIN
ISO 7089-3

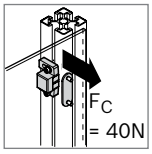


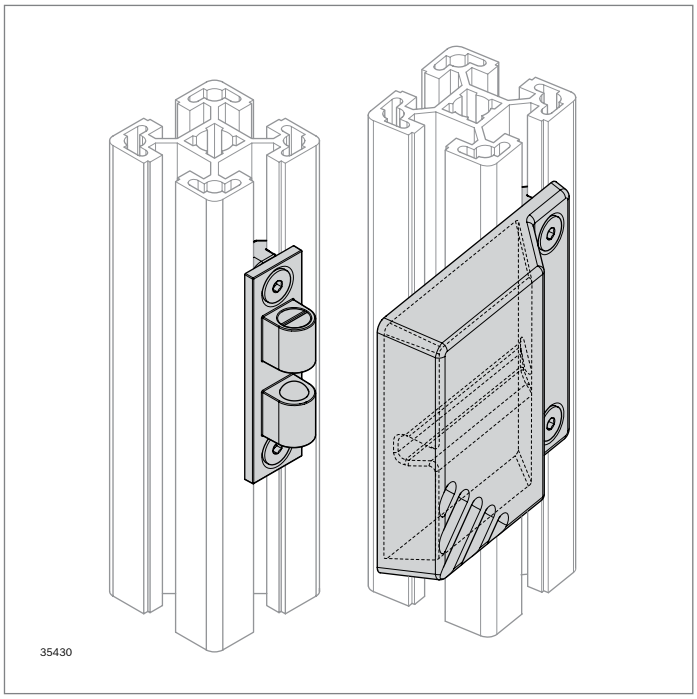




| Magnet catch | Slot | No. |
|---|---|---|
| | 8, 10 | **3 842 555 568** |
| Material: | PA; signal gray (RAL 7004)<br>Steel; zinc-plated | |
| Scope of delivery: | Incl. counterpiece | |



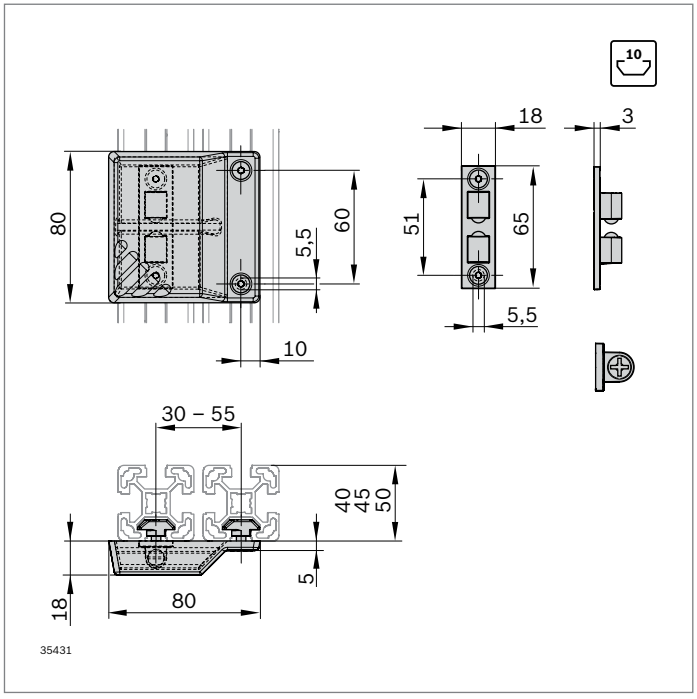



## Double ball stop latch



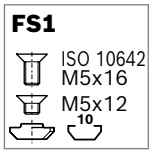

- For arresting doors made of profile frames and for bridging door gaps
- Suitable for profiles with modular dimensions 40 mm, 45 mm, and 50 mm
- Locking also possible with varying profile spacing

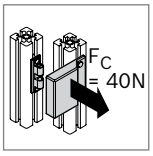


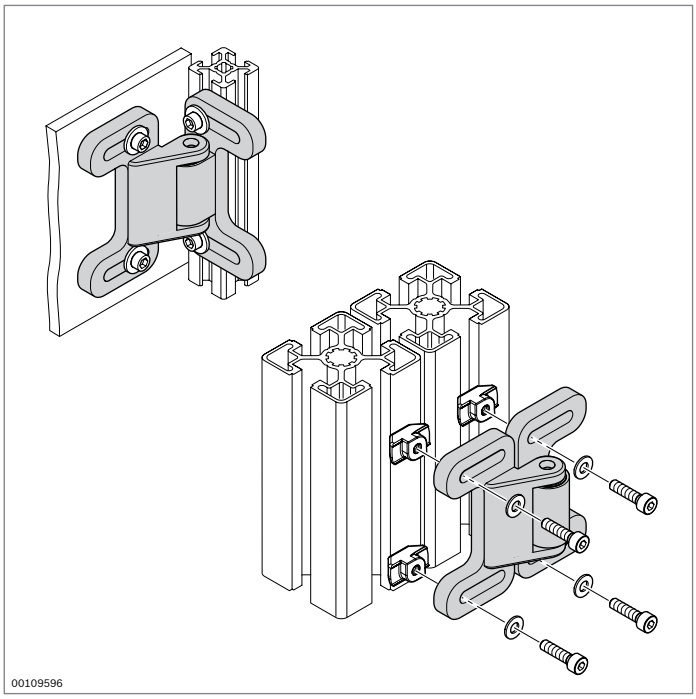



| Double ball stop latch | Slot | No. | FS |
|---|---|---|---|
| | 10 | **3 842 558 570** | 2xFS1 |

| | |
|---|---|
| Material: | Fitting; diecast zinc; painted (RAL 9006)<br>Double ball stop latch: Diecast zinc<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |





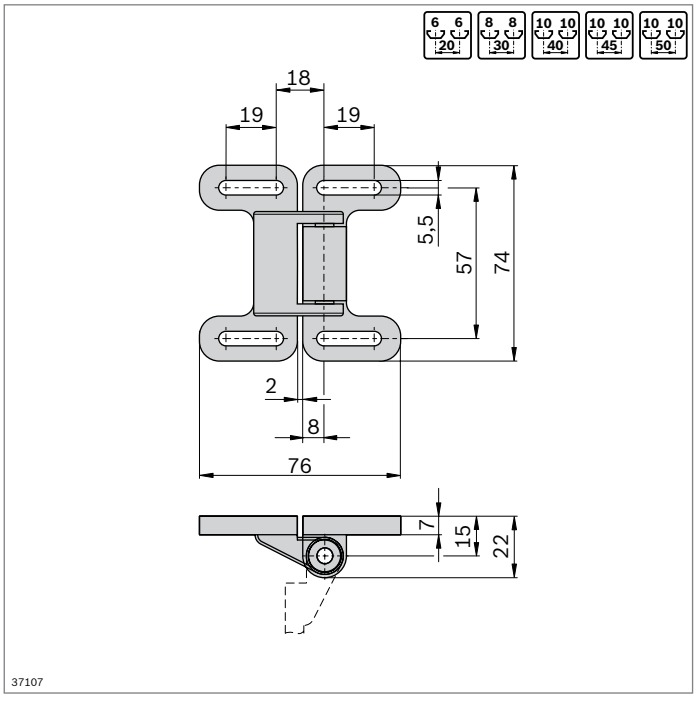

## Ball catch



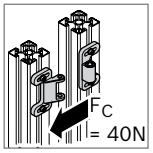

- Ball catch for doors and flaps
- For sliding and swing doors
- For doors with or without frames
- Elongated hole to adjust for differing spacing
- Can be used under cleanroom conditions
- Tested for particulate emissions
  Report No. BO2112-1289

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



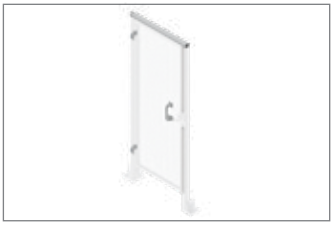
EcoSafe – frame profile 22.5x45 (p. 10-6)



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



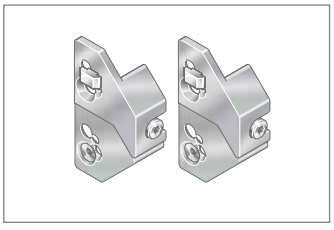
EcoSafe – leg set (p. 10-31)



EcoSafe – door kits (p. 10-32)



EcoSafe – accessories (p. 10-42)



Suspension piece (p. 10-46)

# EcoSafe – modular components for safety fences and enclosures



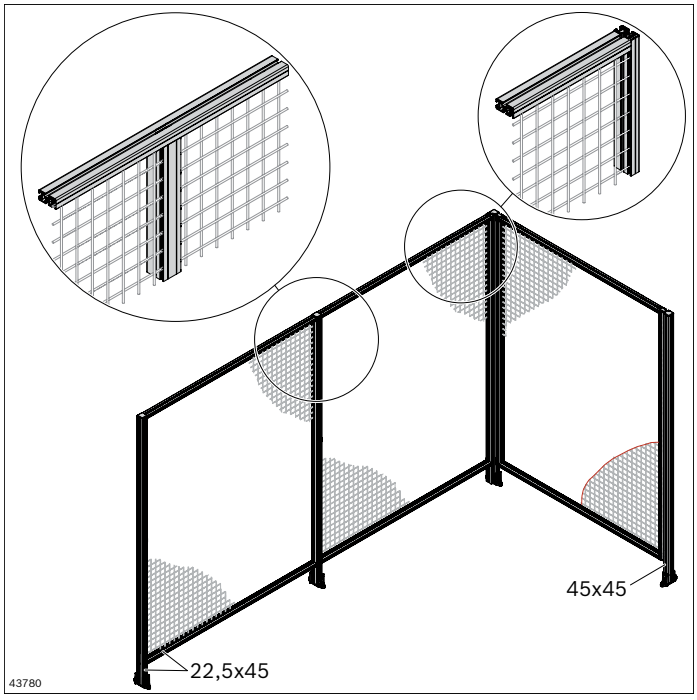
With a successful history spanning over 25 years, the modular EcoSafe construction kit offers a broad range of products for assembling protective equipment.

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

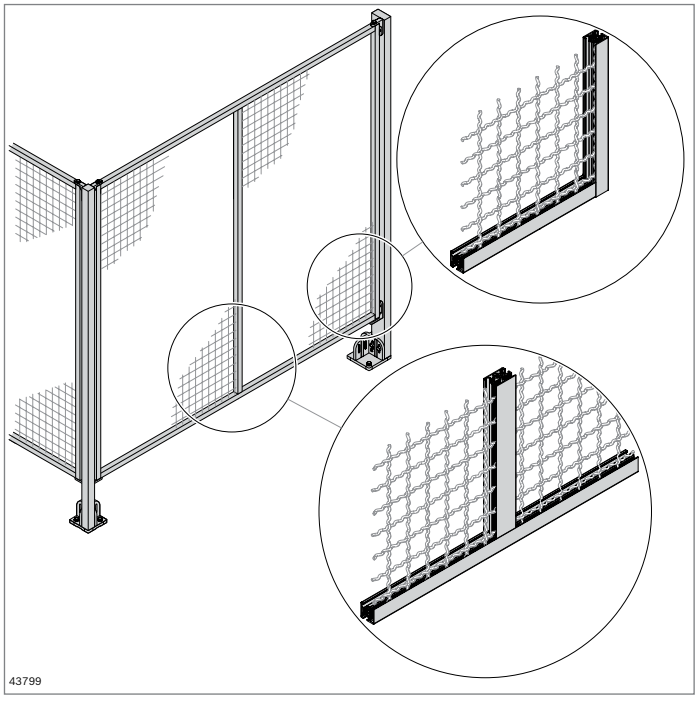



## EcoSafe frame profile 22.5x45 – the new range

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

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

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

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

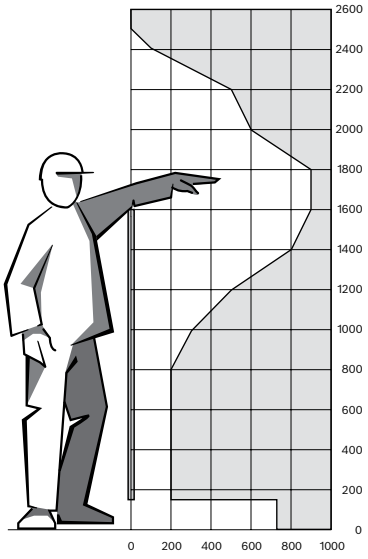
The standard fence height of the EcoSafe protective frame of 2000 mm provides adequate protection in conjunction with a relatively small safety distance. The graphics show a profile with the safety distances for two different system heights (example of only minor injuries and a low probability of occurrence).

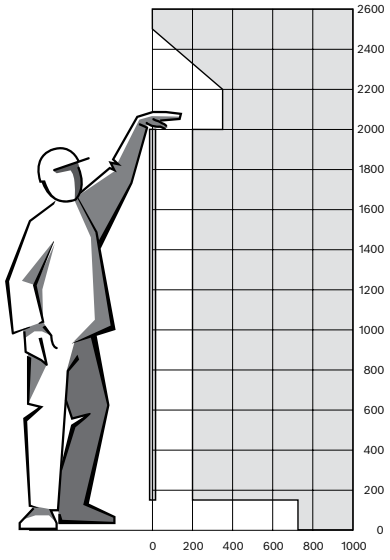
The example shows the safety distances with a ground clearance of 150 mm. This results in a distance of 665 mm from the danger area for the lower limbs.

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

**Safety distances**

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

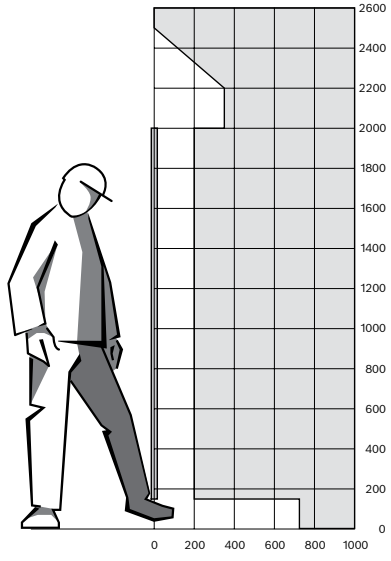


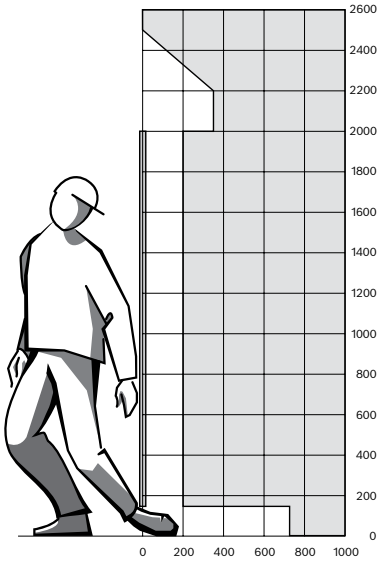






**Safety distances where there is 150 mm ground clearance**

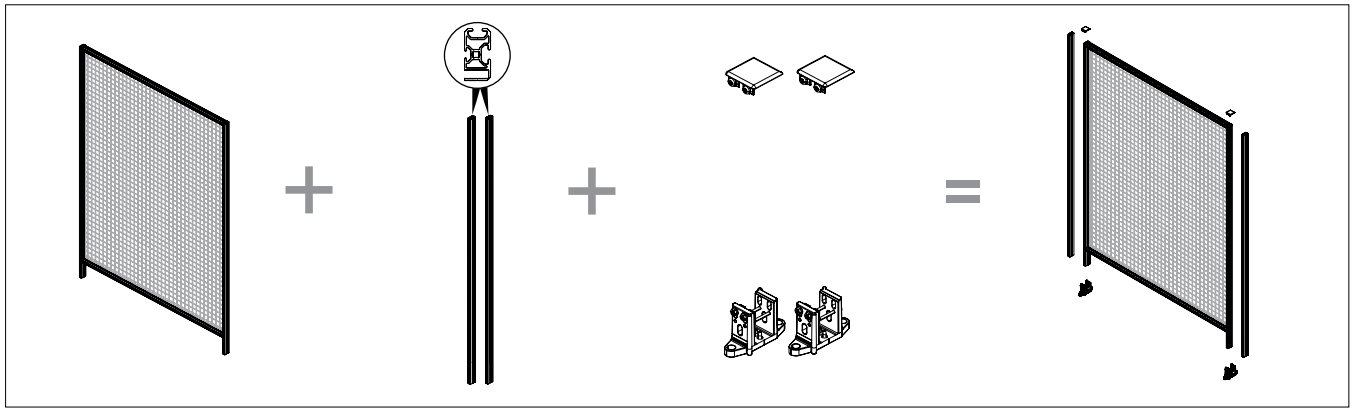
Example: Distances according to DIN EN ISO 13857 to prevent free access of the lower limbs.



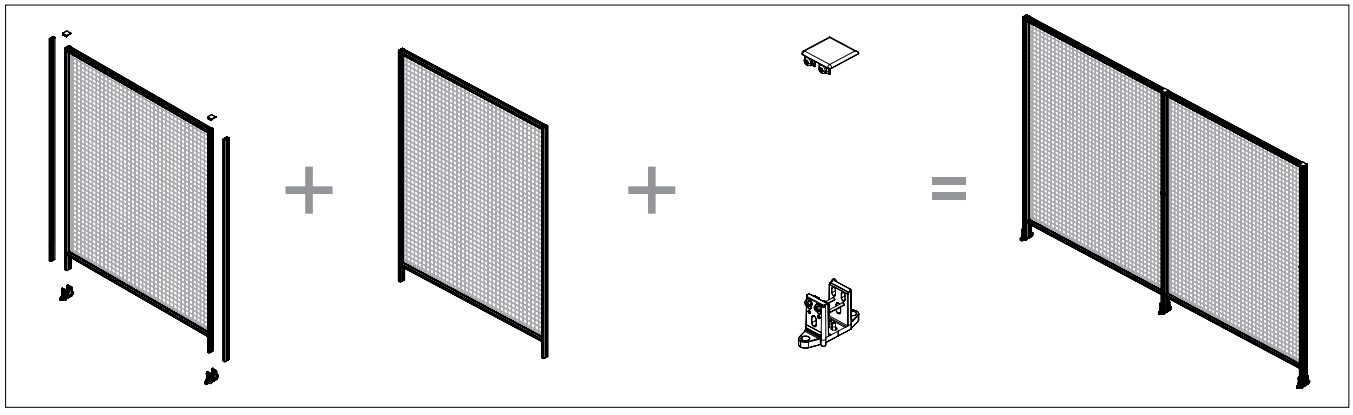



# EcoSafe protective fence components – frame profile 22.5x45

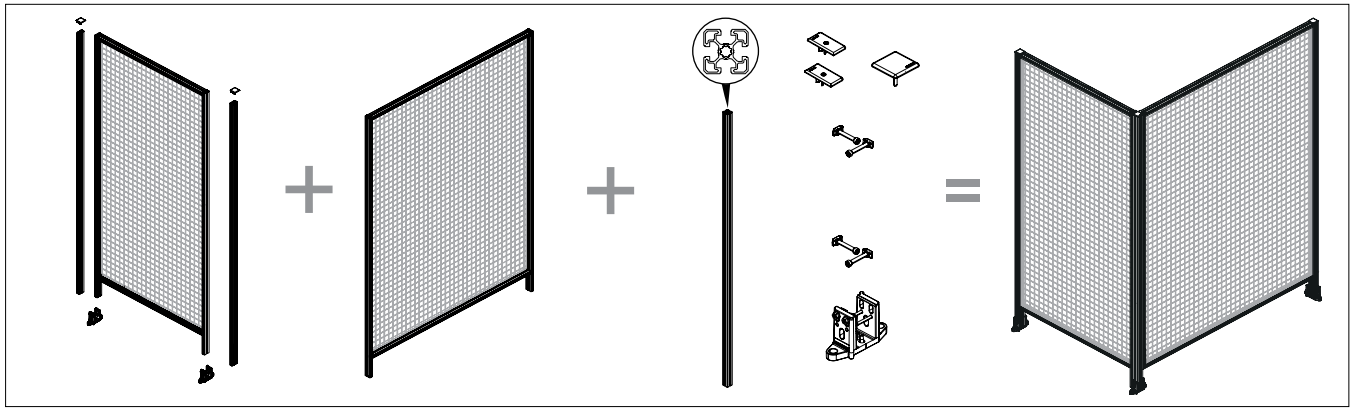
### 1 x direct panel



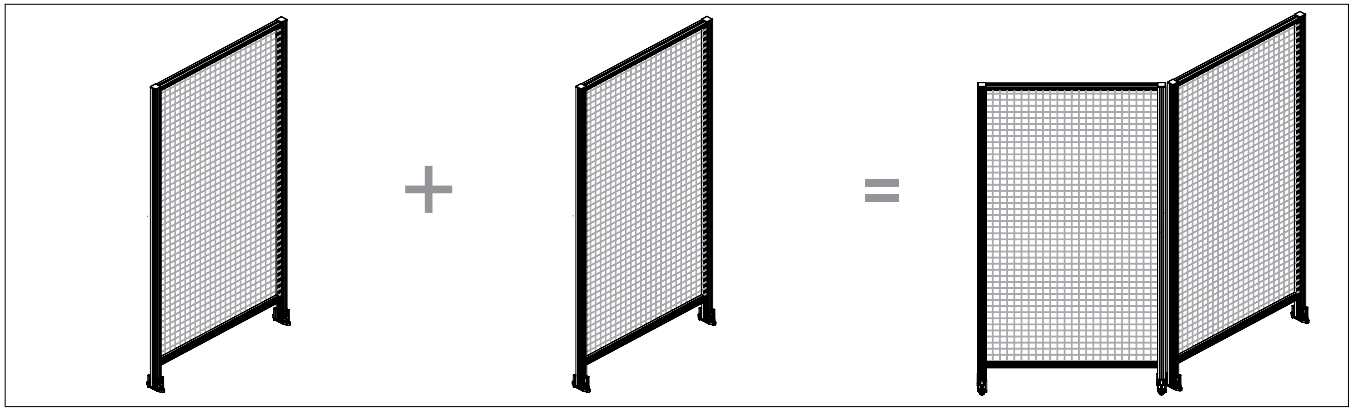
### 2 x direct panel



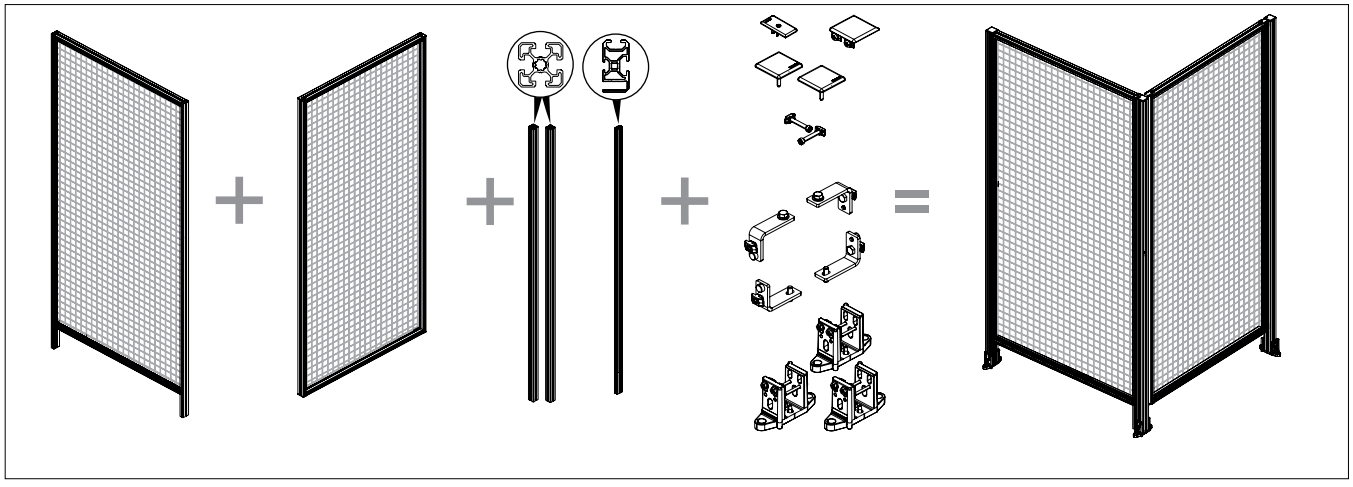
### 90 degree corner



## Corner with variable angle

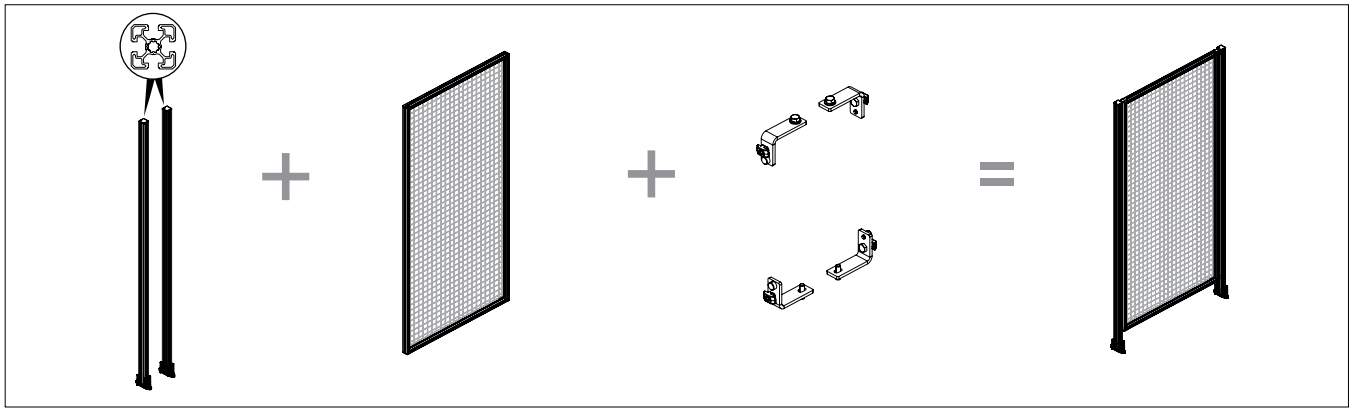


## Transition from direct field to suspension field

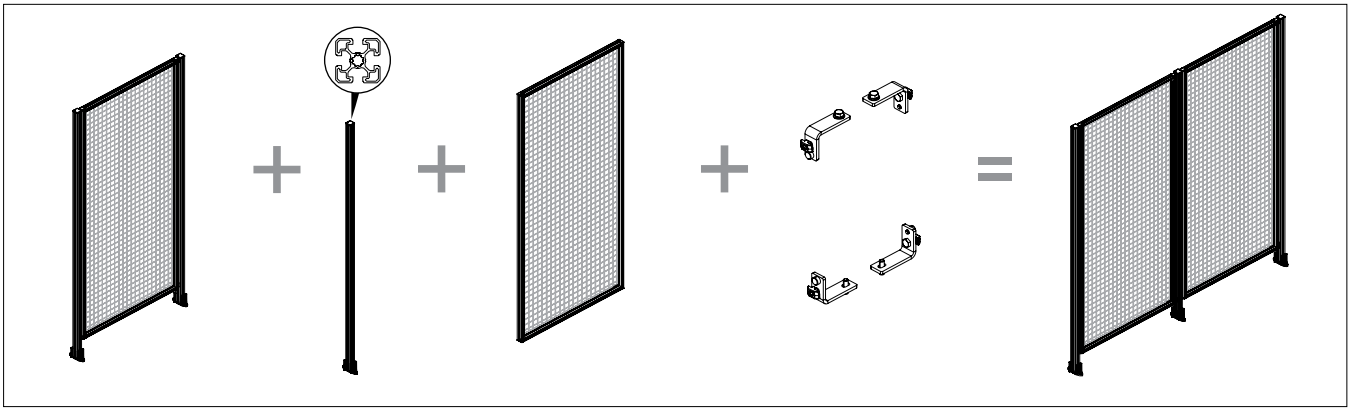




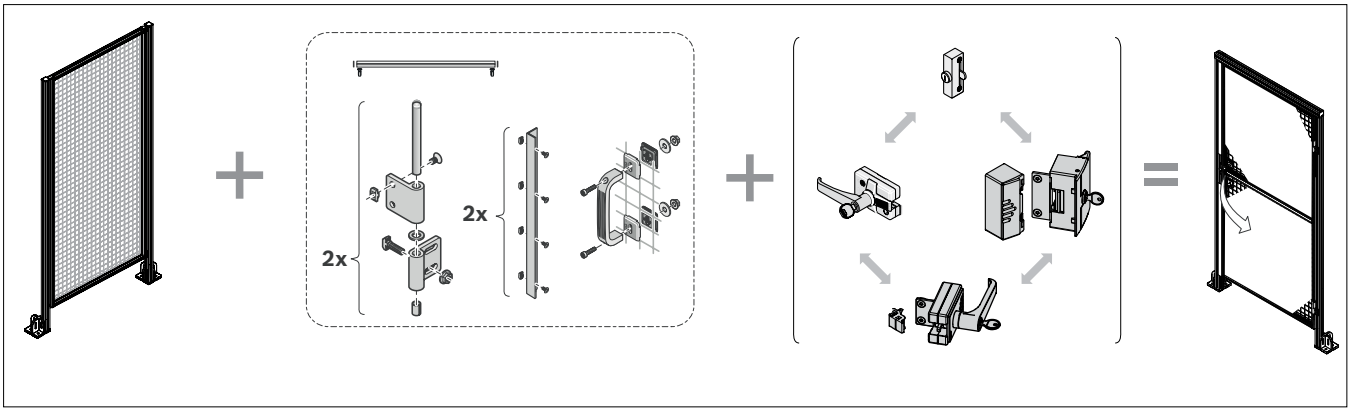
## 1 x suspension panel



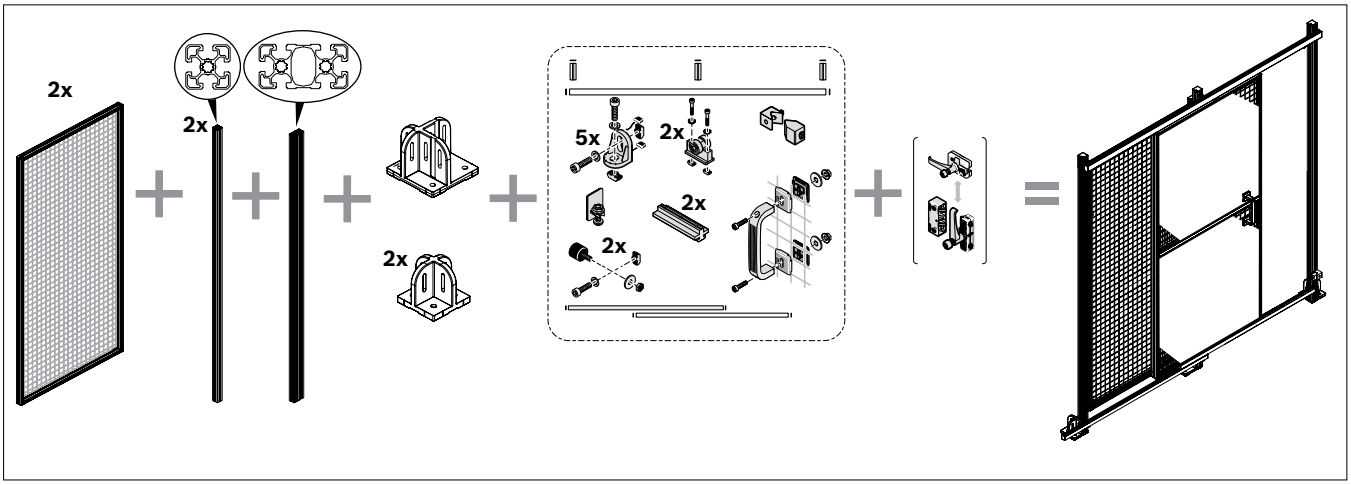
## 2 x suspension panel



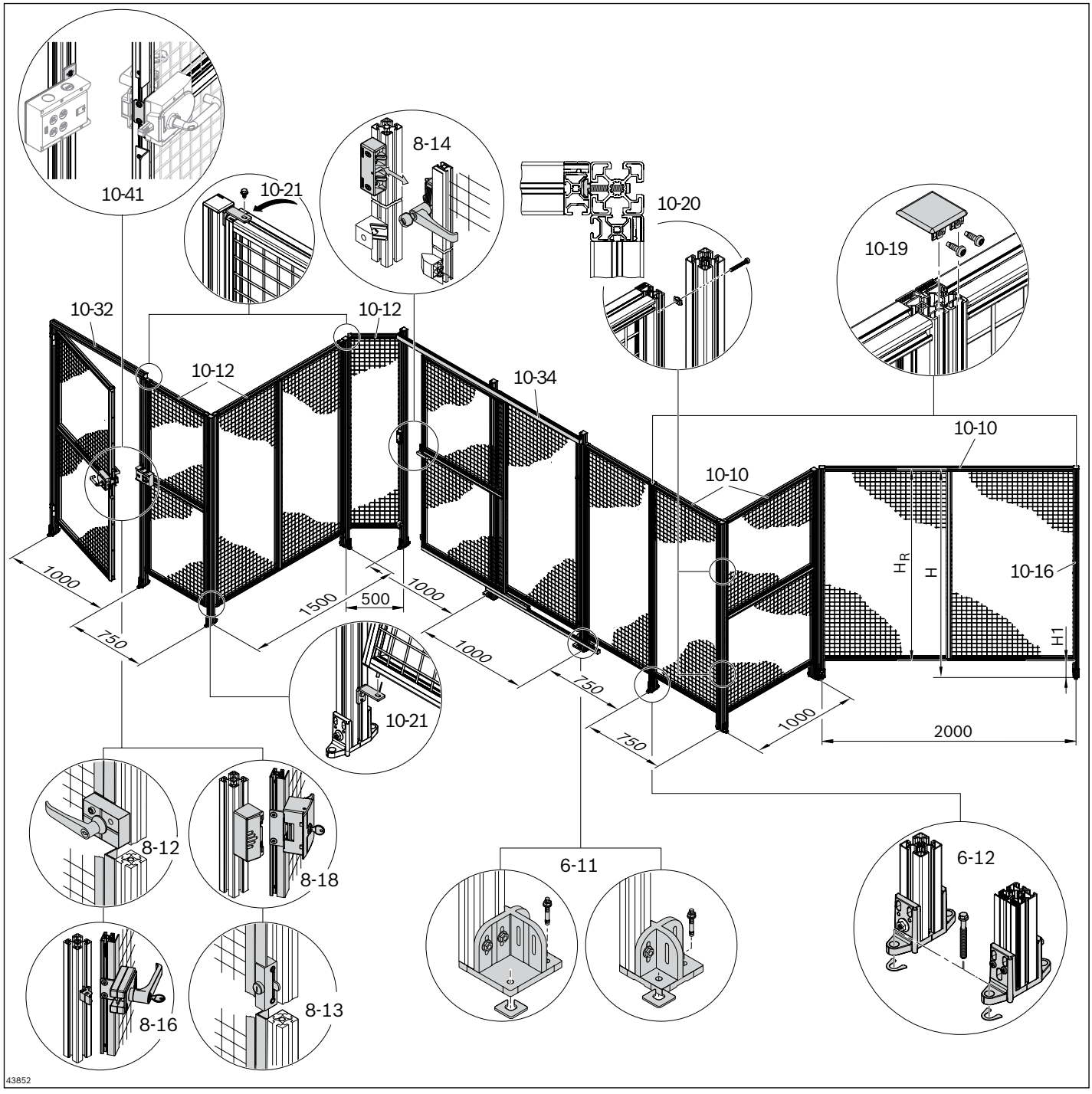
## System door

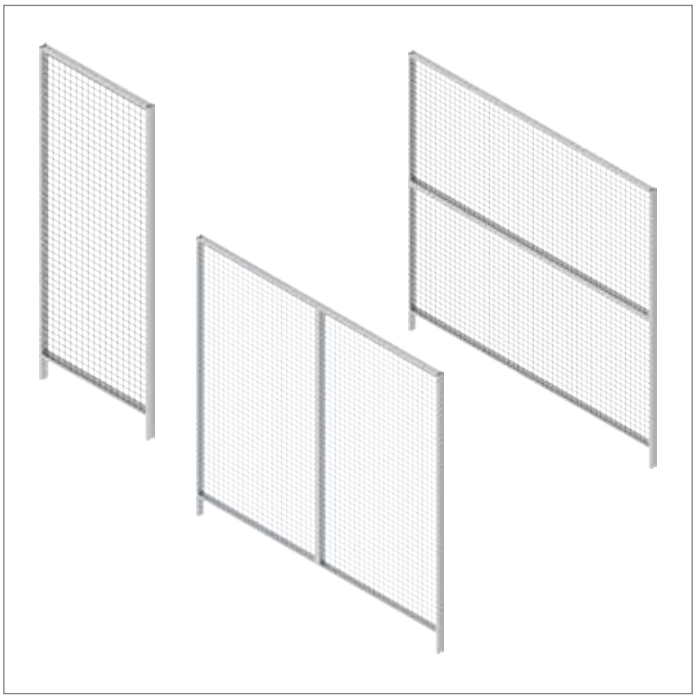



## Sliding door with superstructure



## EcoSafe protective fence components frame profile 22.5x45



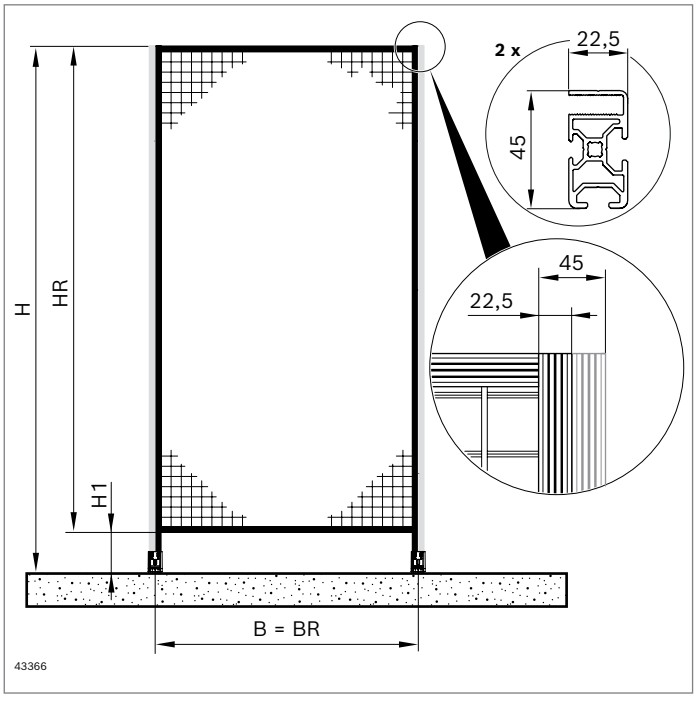


## Protective frame – direct panel

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

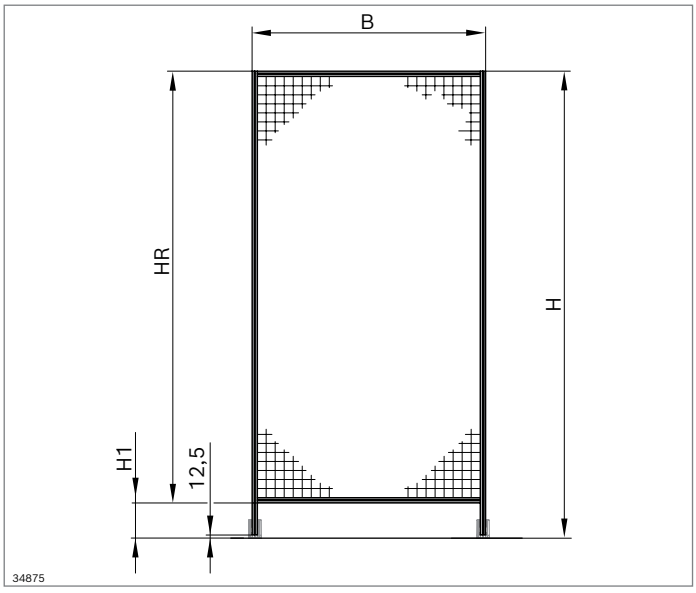
Required accessories:

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




**System dimensions**

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

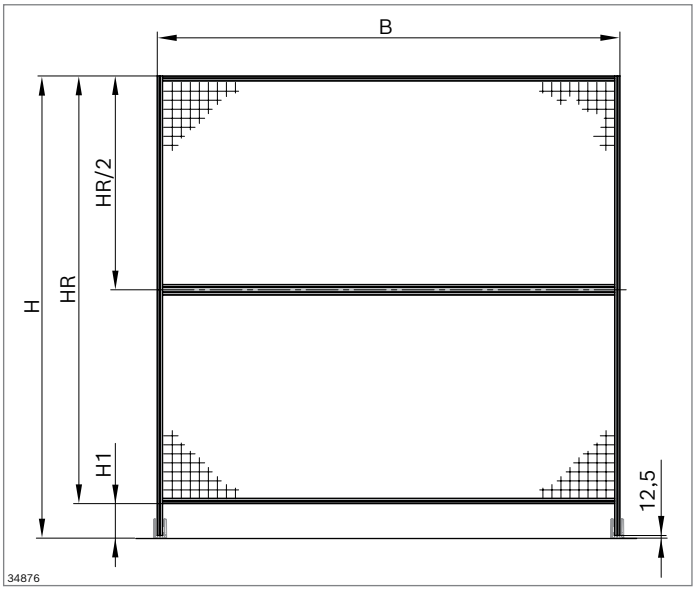



| **Direct panel** | **H** (mm) | **H1** (mm) | **HR*** (mm) | **B** (mm) | **No.** |
|---|---|---|---|---|---|
| Galvanized | 2000 | 150 | 1850 | 500 | **3 842 567 902** |
| | | | | 750 | **3 842 567 903** |
| | | | | 1000 | **3 842 567 904** |
| | | | | 1500 | **3 842 567 905** |
| Black | 2000 | 150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

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

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

* HR ≤ 2500–H1

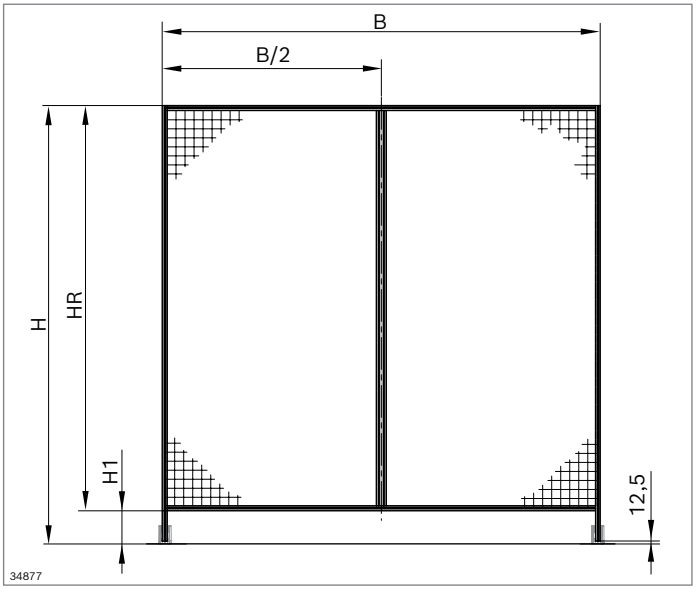



| **Direct panel, horizontally divided** | **H** (mm) | **H1** (mm) | **HR*** (mm) | **B** (mm) | **No.** |
|---|---|---|---|---|---|
| Galvanized | 2000 | 150 | 1850 | 2000 | **3 842 567 910** |
| Black | 2000 | 150 | 1850 | 2000 | **3 842 567 911** |
| | Hmax = 2500mm | 80 ... 2300 | 200 ... 2420 |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

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

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

* HR ≤ 2500–H1

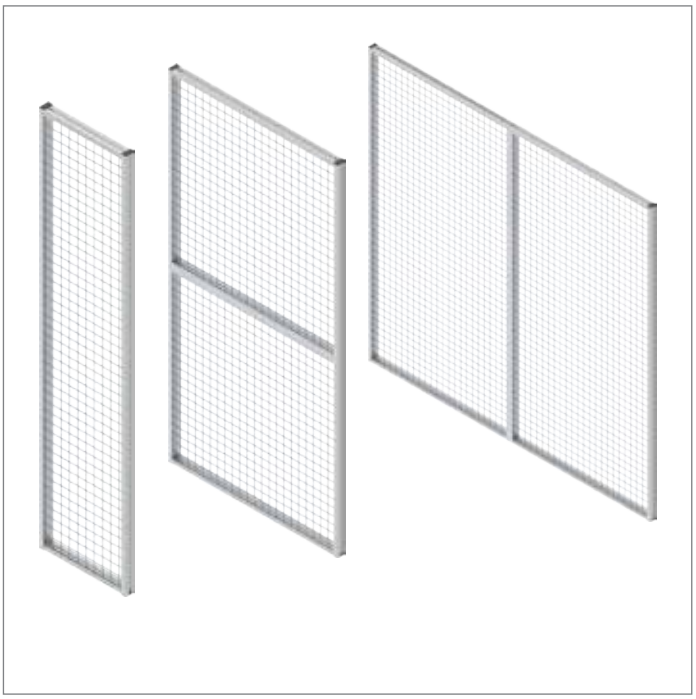



| **Direct panel, vertically divided** | **H** (mm) | **H1** (mm) | **HR*** (mm) | **B** (mm) | **No.** |
|---|---|---|---|---|---|
| | Hmax = 2500mm | 80 ... 2400 | 100 ... 2420 | 200 ... 2500 | **3 842 994 246 / H1, HR, B, FA** |

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

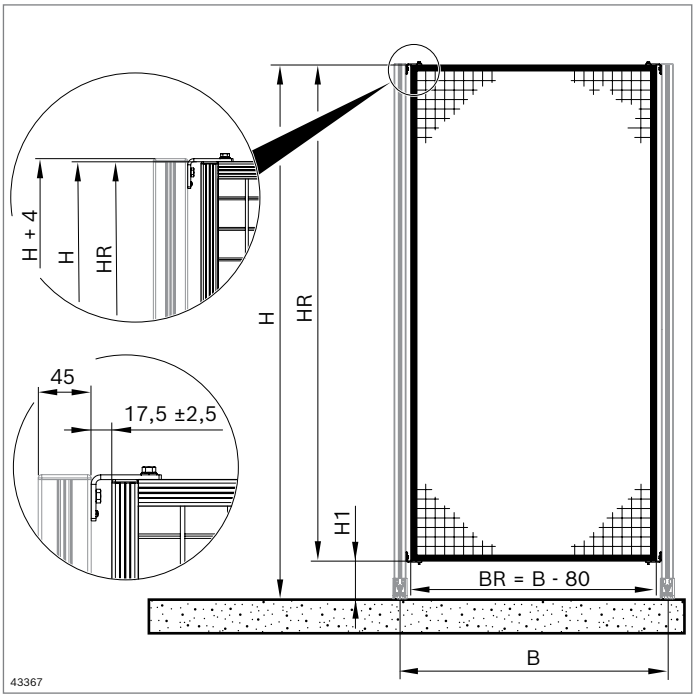
Grille color: FA = 0: hot-zinc-plated
FA = 1: black; RAL 9005 (e.g. for fence)
FA = 2: yellow; RAL 1023 (e.g. for doors)

* HR ≤ 2500–H1



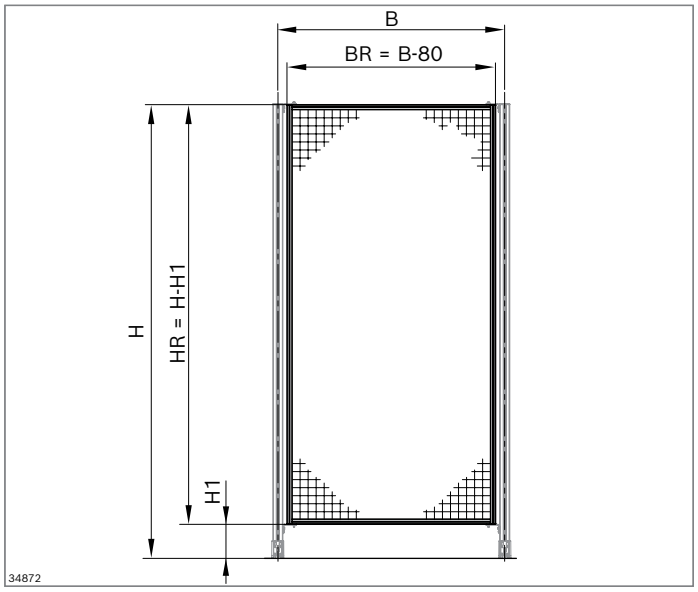
## Protective frame – suspension panel

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

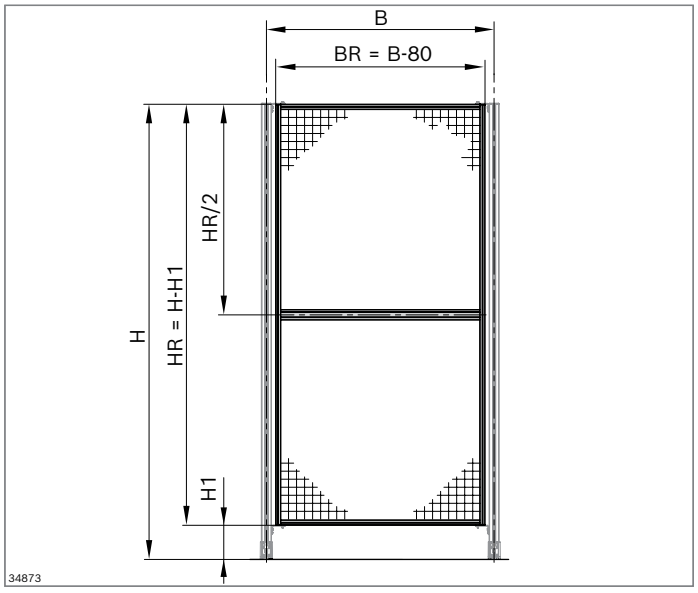



**System dimensions**

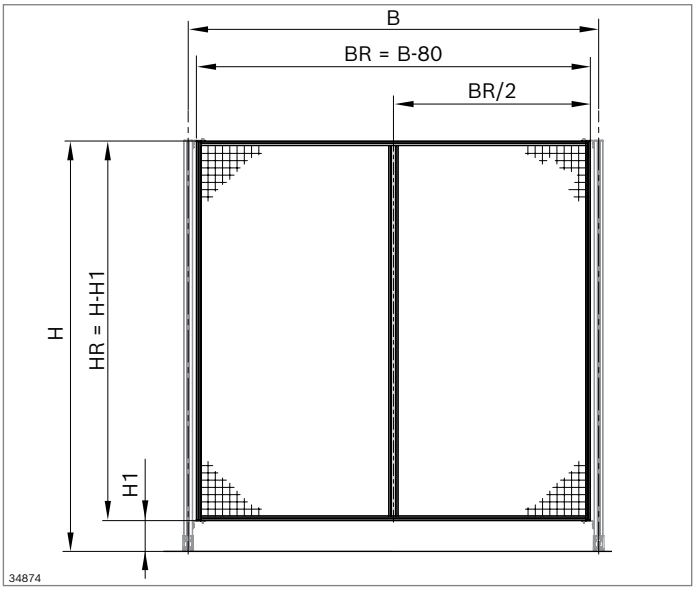
**B** = center of leg set/center of leg set
**BR** = frame width (left outer edge/right outer edge)
**HR** = frame height (lower/upper edge of frame)
**H1** = ground clearance (floor/bottom edge of frame)
**H** = (total height)




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




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




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



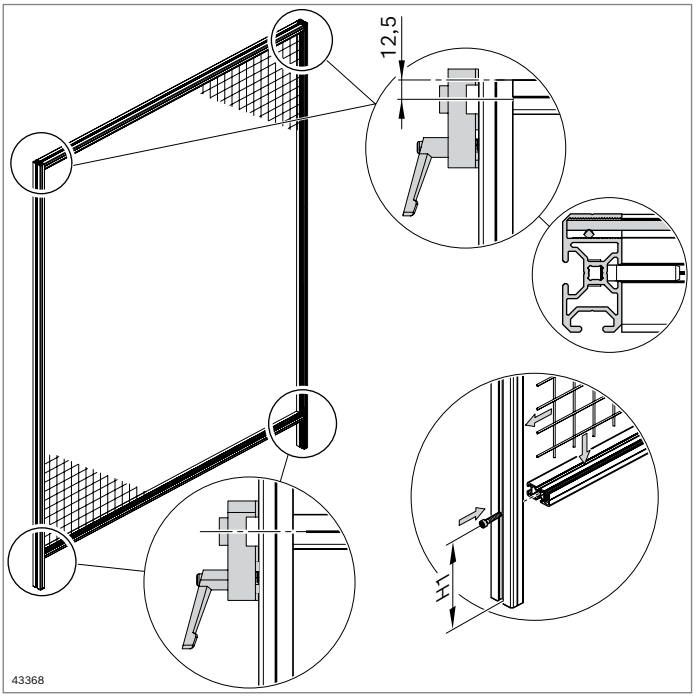
## Frame profiles

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

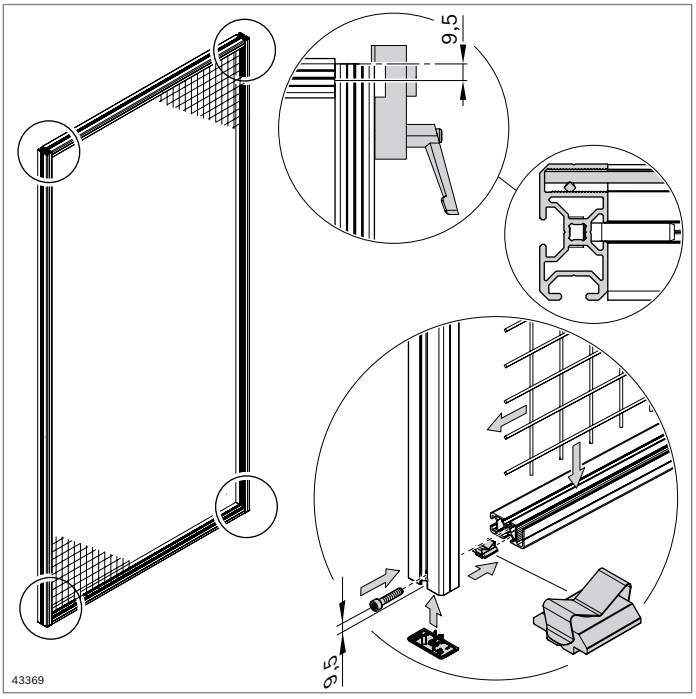
Required accessories:

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

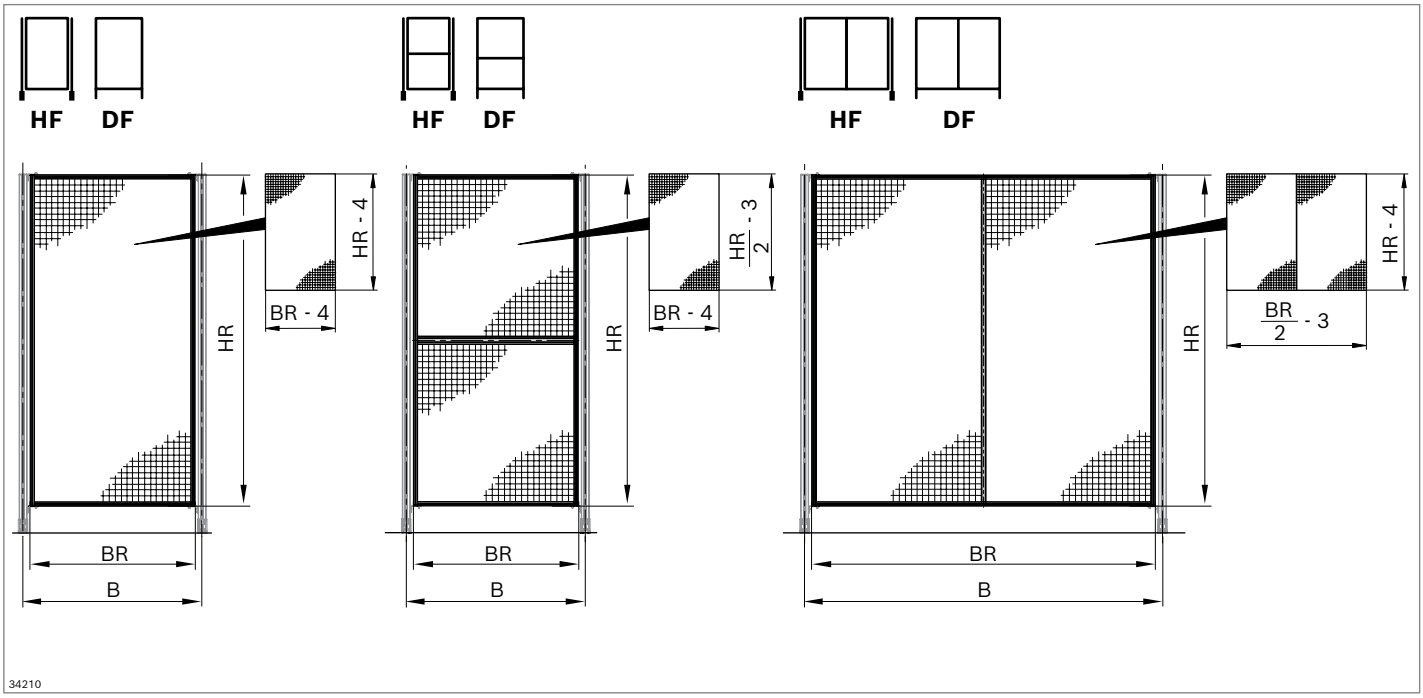
**Direct panel (DF) installation**




**Suspension panel (HF) installation**



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

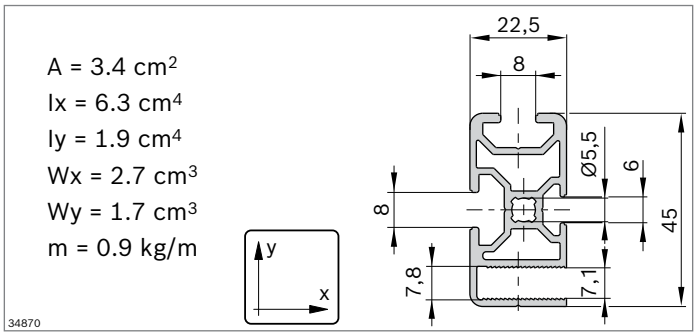



**System dimensions**

**B** = center of leg set/center of leg set

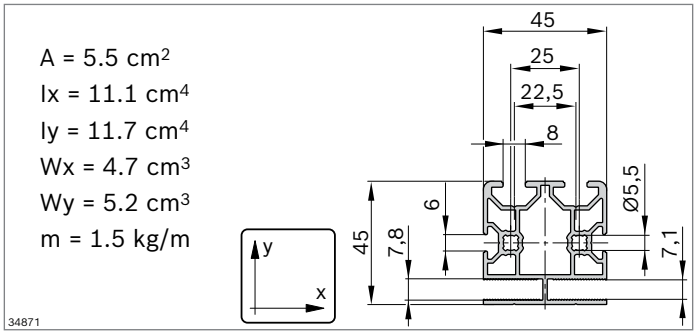
**BR** = frame width (left outer edge/right outer edge)

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



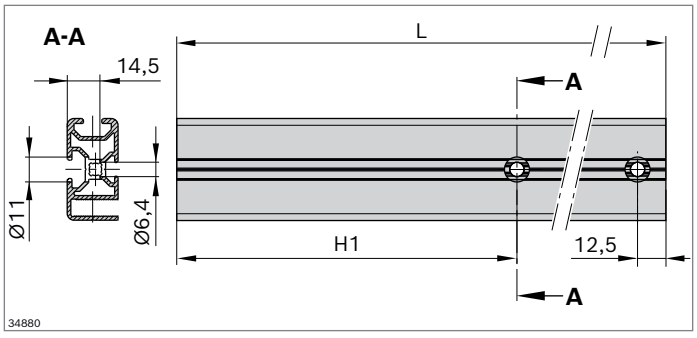

▶ For frame construction of protective frames

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



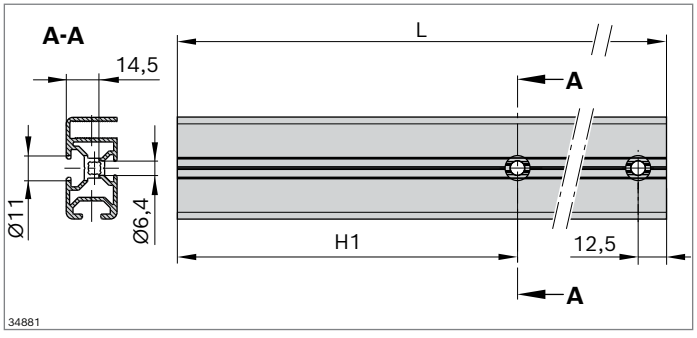

▶ For central stiffening of divided protective frames

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



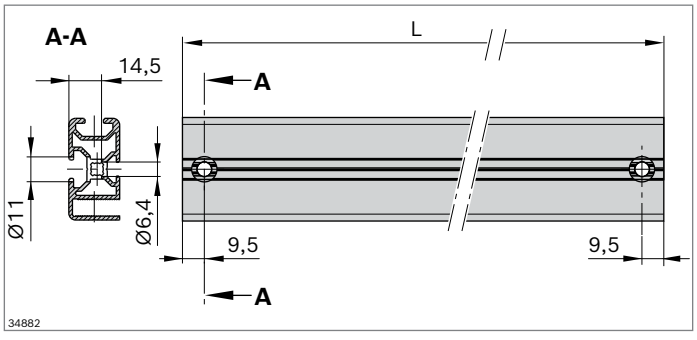

▶ For direct panel (DF) vertical frame profile left

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



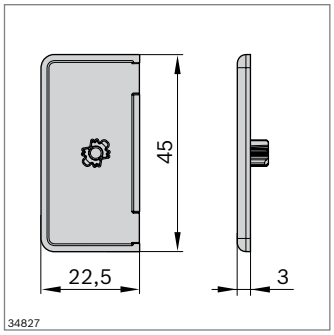

▶ For direct panel (DF) vertical frame profile right

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



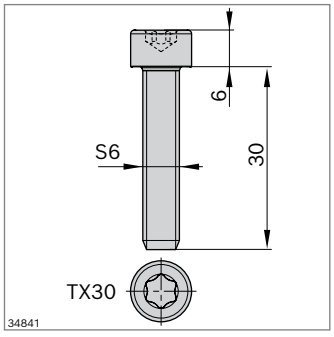

▶ For suspension panel (HF) vertical frame profiles left/right

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



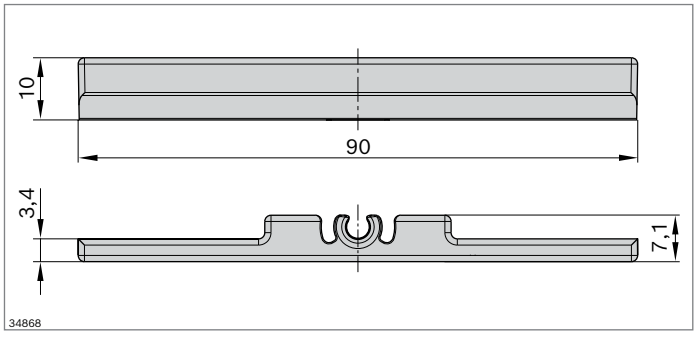

- Cover cap as a design element and to prevent injuries

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



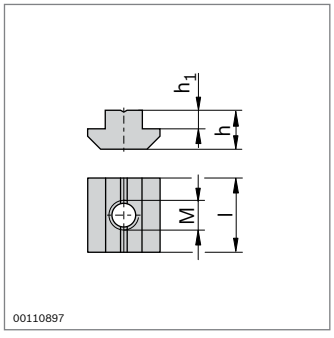

- Screw for corner connection of protective frame (DF + HF)
- Connection element for assembly of protective frame with frame profiles 22.5x45 or 45x45
- Required profile finishing: Step drilling M6
- Accessories: Drilling template (3 842 567 976)

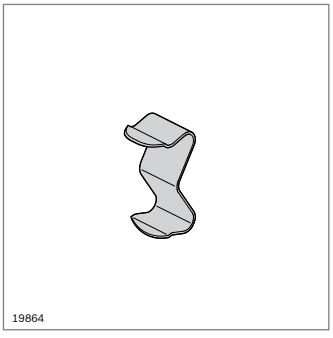
| Connection screw | ESD | | No. |
|---|---|---|---|
| | | 100 | **3 842 567 978** |
| Material: | Steel; zinc-plated | | |




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

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

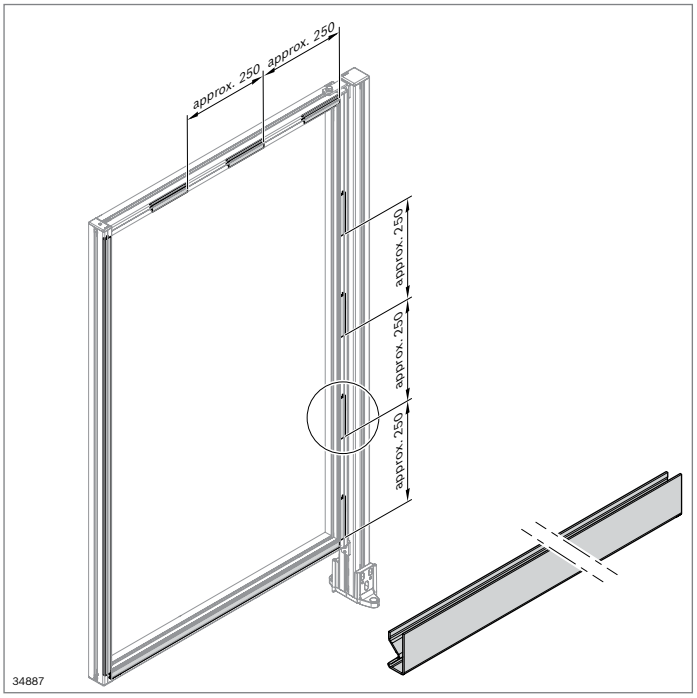



- Used to fasten the suspension brackets to the suspension panel

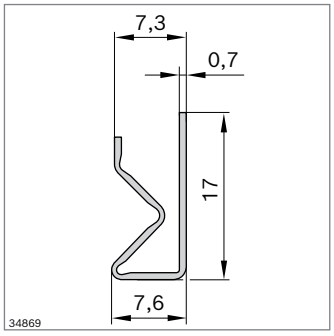
| Sliding block | M | h (mm) | $h_1$ (mm) | l (mm) | | No. |
|---|---|---|---|---|---|---|
| | 8 | 6.0 | 2.0 | 16 | 100 | **3 842 514 930** |
| Material: | | Steel; zinc-plated | | | | |

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




## Clamping profile

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

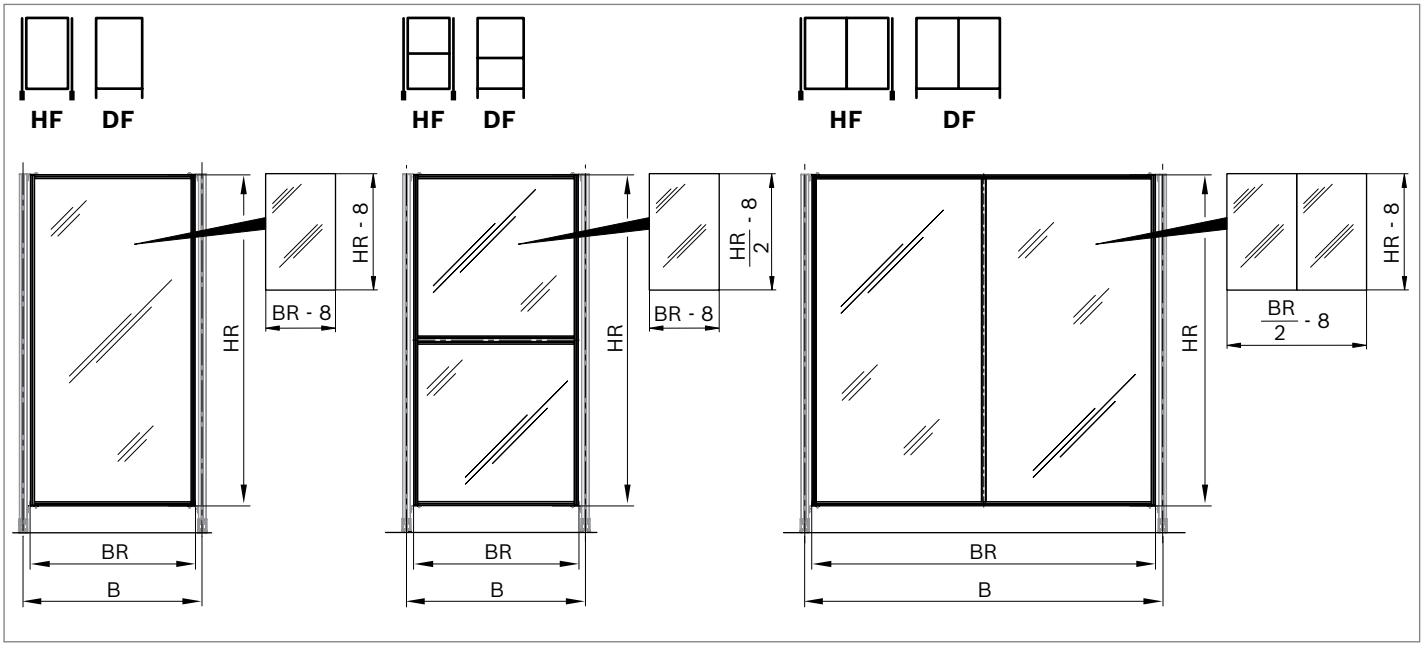


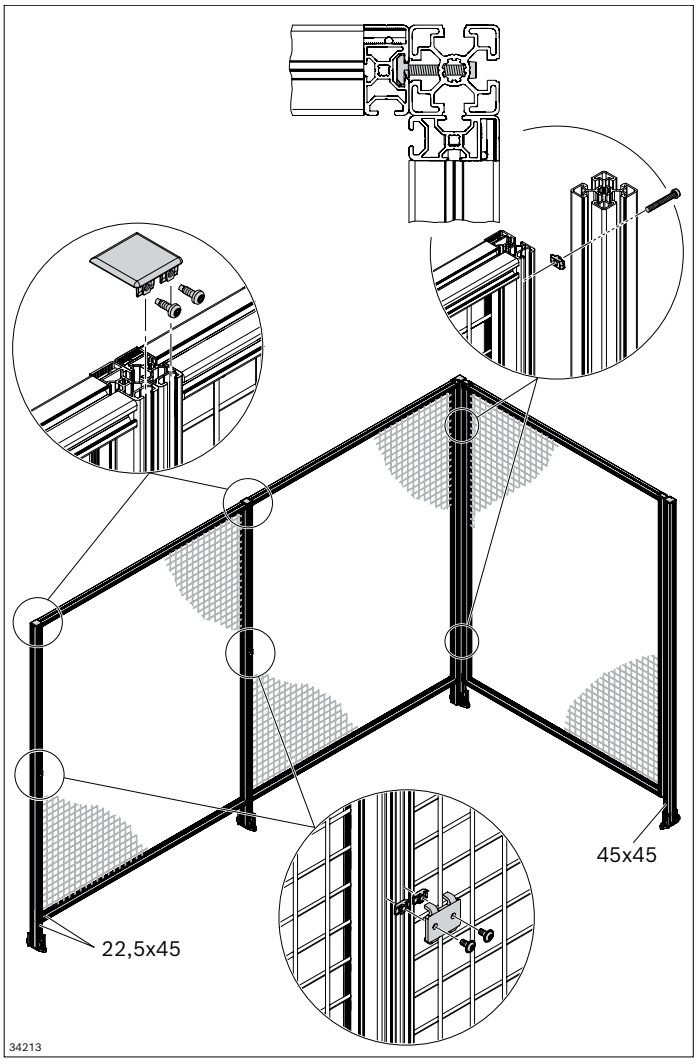

| Clamping profile PG | | L (mm) | No. |
|---|---|---|---|
| | 10 | 2000 | **3 842 567 975** |
| Material: | PP; signal gray | | |

**System dimensions**

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

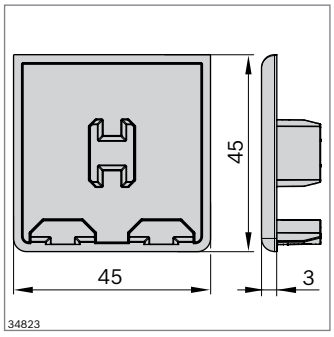
**Cut-to-size panel elements**

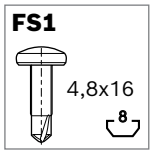





## Mounting cap, connection kit, mounting kit

- Mounting cap
- Connection kit
- Mounting kit

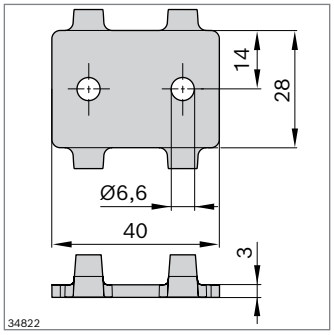


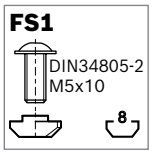



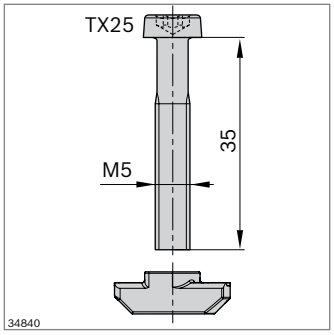

- For connecting two direct panels or frame profiles 22.5x45
- Also serves as cover cap
- Mounting via self-tapping screws

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

| | |
|---|---|
| Material: | Cap: Diecast zinc;<br>fastening material: Steel, galvanized |
| Scope of delivery: | Incl. fastening material (FS) |




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

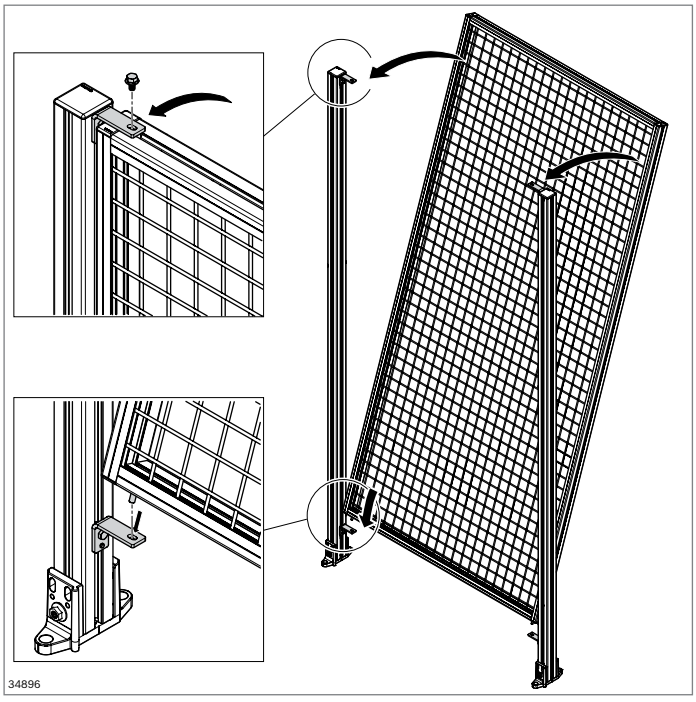
| Connection kit DF | Slot | ESD | | No. | FS |
|---|---|---|---|---|---|
| | 8 | | 10 | **3 842 564 823** | 2xFS1 |
| Material: | Bracket: Aluminum; anodized; Fastening material: Steel, galvanized | | | | |
| Scope of delivery: | Incl. fastening material (FS) | | | | |

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

Accessories, recommended:

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

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



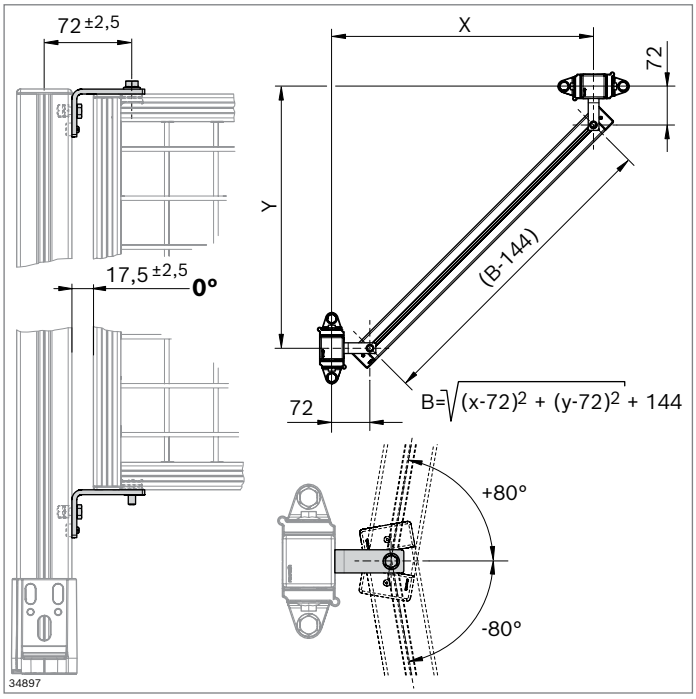

## Suspension bracket set, Safety Strip loss prevention




### Suspension bracket set

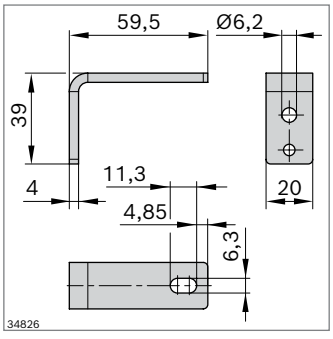
- Set consists of 4 brackets for installation of one suspension field (incl. fastening material)
- For easy installation of the suspension panel at the leg set at various angles or straight
- Suspension bracket with centering lugs as anti-torsion element
- For protective frames made of frame profile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

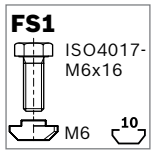





| Suspension bracket HF SET | ESD | | No. | FS |
|---|---|---|---|---|
| | | 1 | **3 842 567 942** | 4xFS1<br>2xFS2<br>2xFS3<br>4xFS4 |

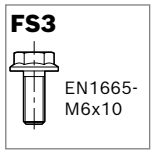
| | |
|---|---|
| Material: | Bracket Steel; zinc-plated; fastening material: Steel, galvanized<br>Centering bolts: PA6 |
| Scope of delivery: | Incl. fastening material (FS) |

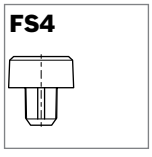


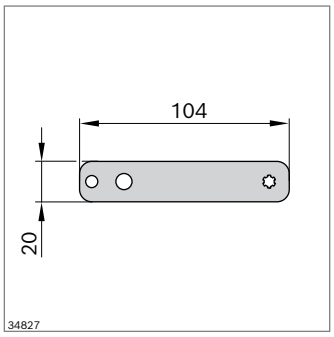



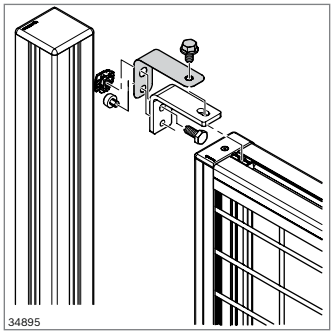








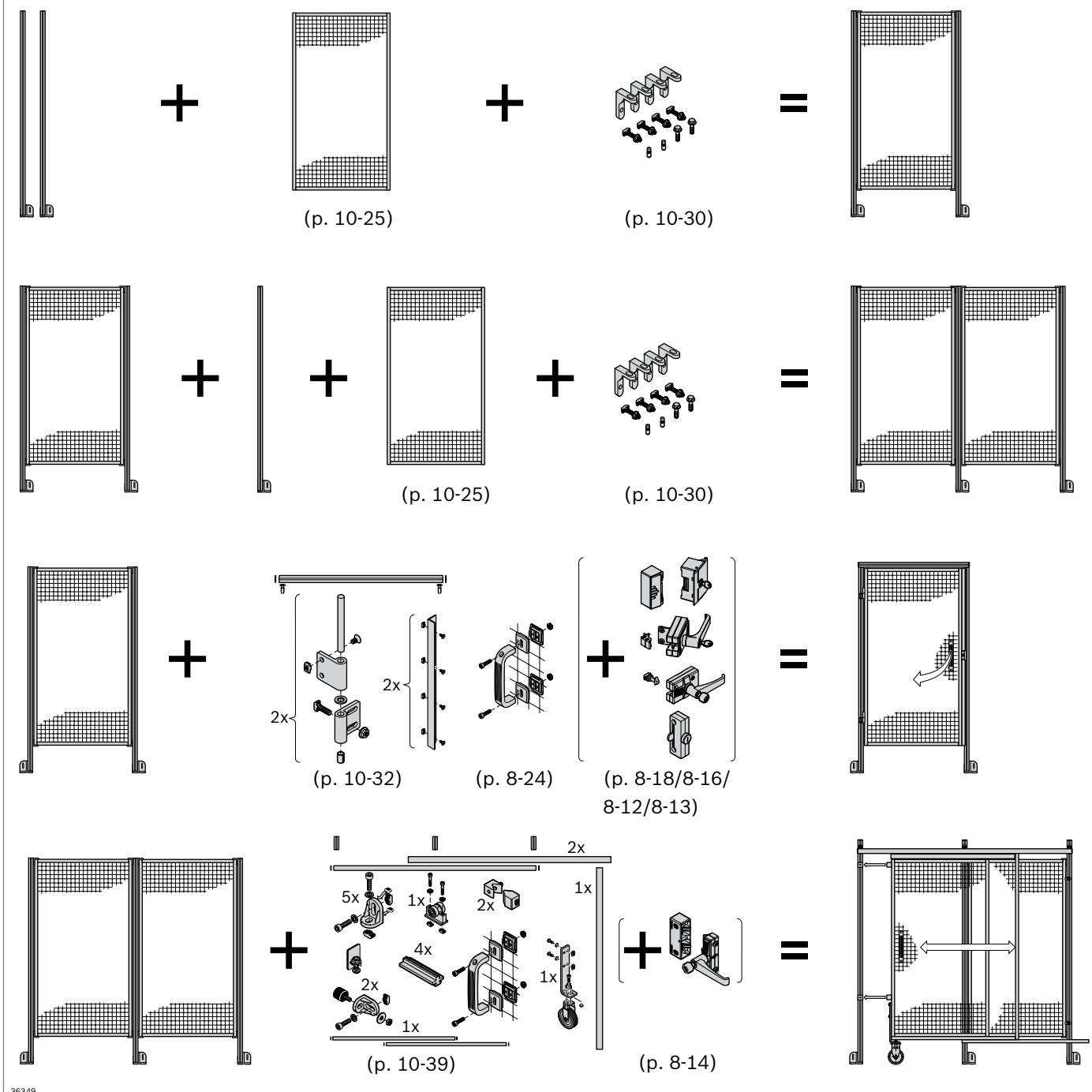




**Safety Strip loss prevention**

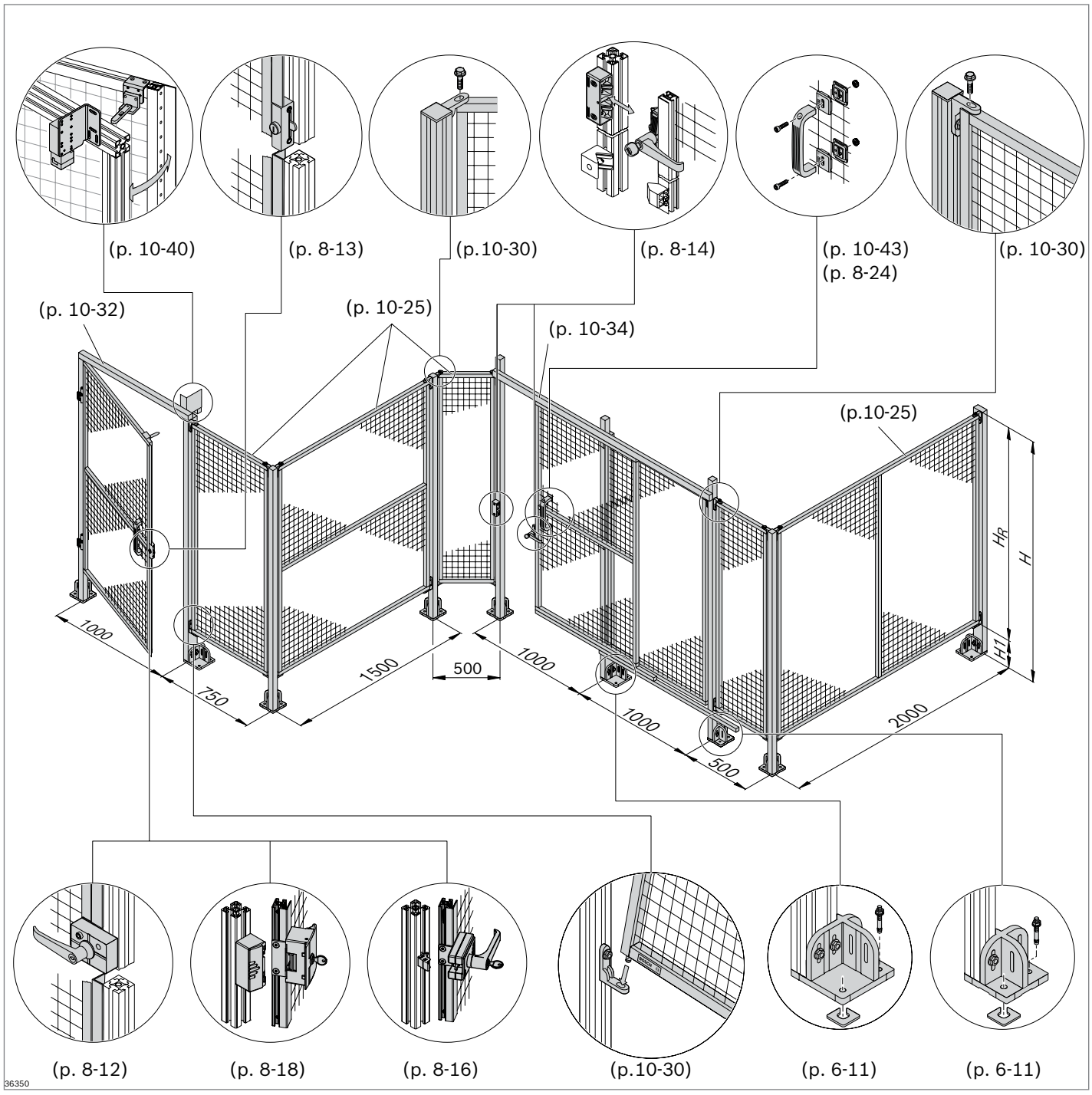
- Loss prevention for the fastening screw of EcoSafe suspension fields
- Easy assembly; can be retrofitted
- Meets the requirements of Machinery Directive 2006/42/EC: Screw remains connected to the suspension bracket after loosening

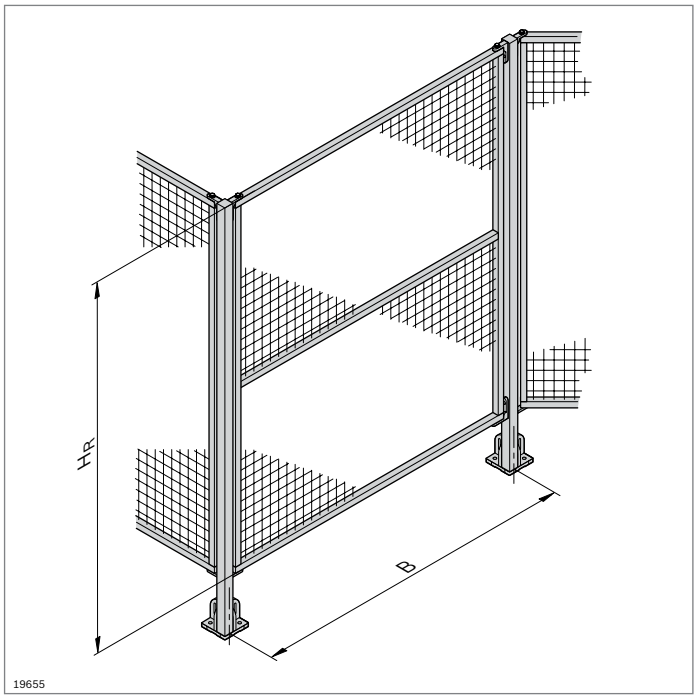
| Loss prevention Safety Strip HF | | No. |
|---|---|---|
| | 100 | **3 842 567 935** |
| Material: | PC; translucent | |

# EcoSafe protective fence components - frame profile 30x30WG



## EcoSafe protective fence components - frame profile 30x30WG

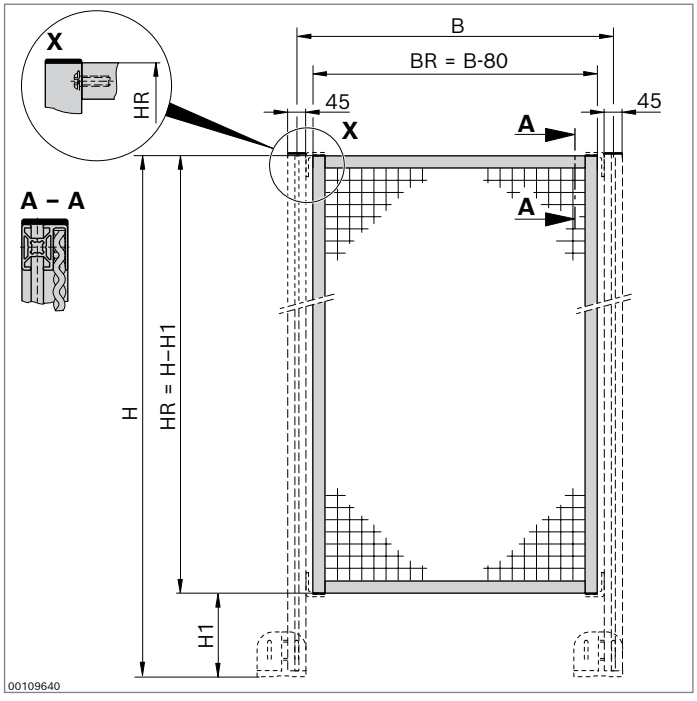




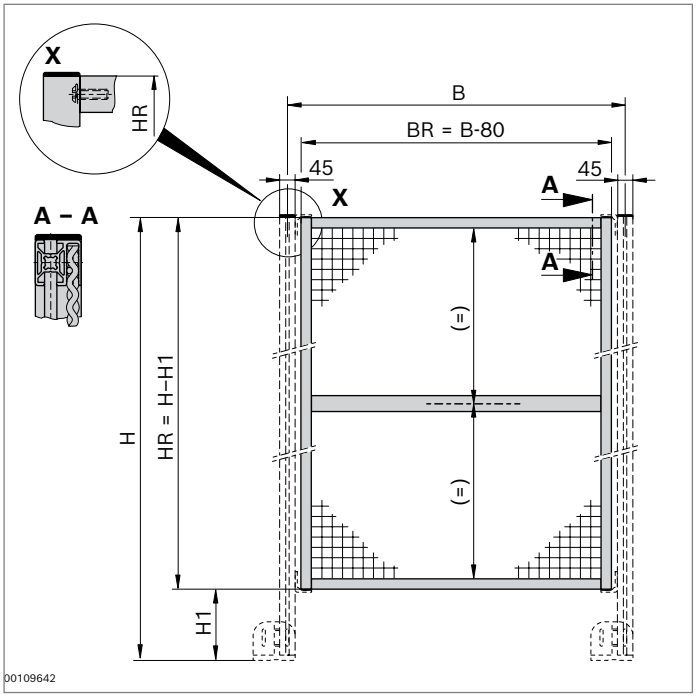

## Protective frame suspension panel

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

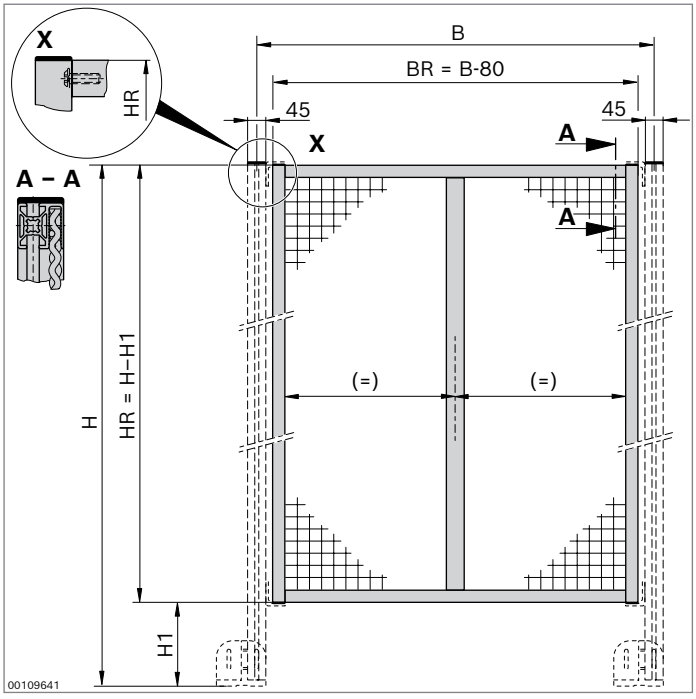
Matching leg sets (p. 10-31)



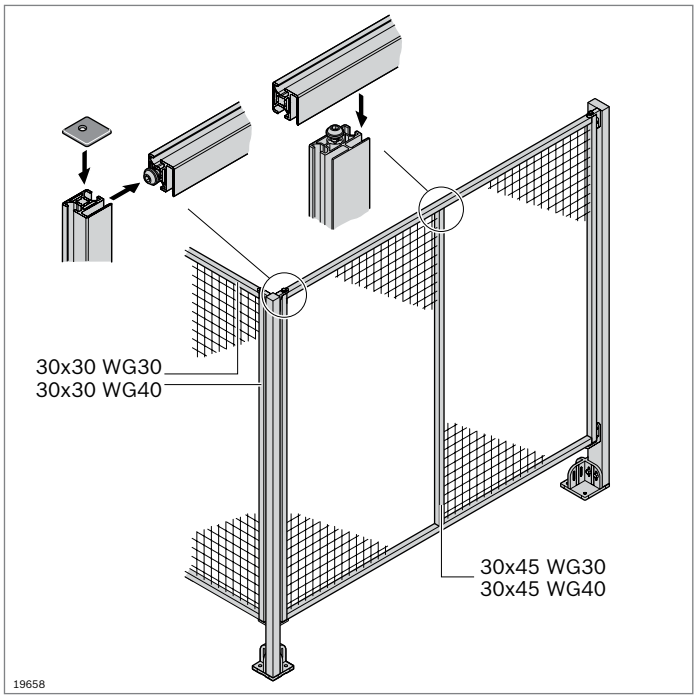

| Protective frame | HR (mm) | B (mm) No. |
|---|---|---|
| | 1800 | 500 **3 842 554 282** |
| | | 750 **3 842 554 283** |
| | | 1000 **3 842 554 284** |
| | | 1500 **3 842 554 285** |
| | 250 ... 2300 | 250 ... 1500 **3 842 994 742 / HR, B, FA** |
| Material: | Frame: Aluminum; anodized<br>Woven wire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




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




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




## Frame profiles

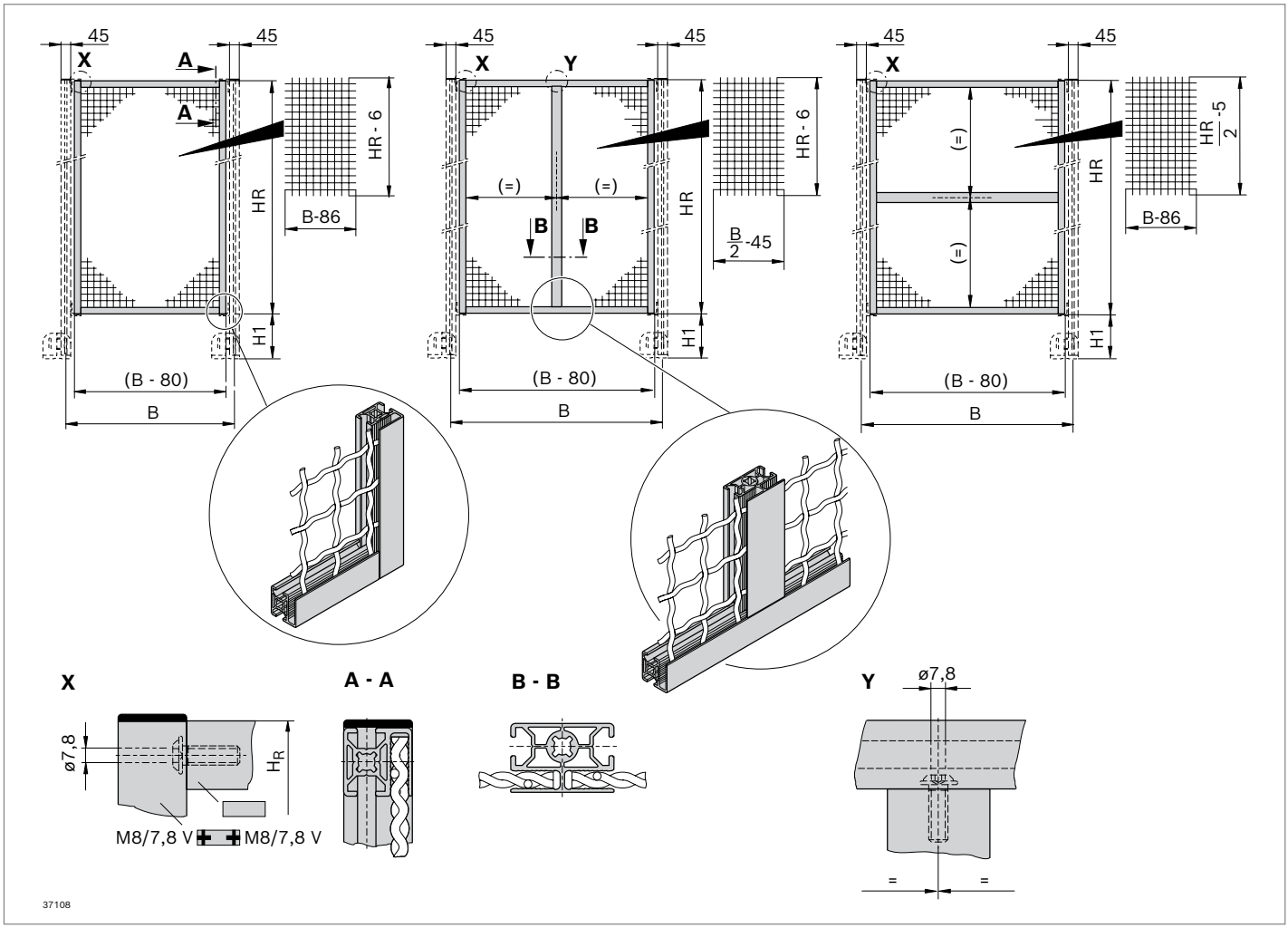



- For the low-cost construction of protective equipment with woven wire grilles WG30 and WG40
- Fastening of woven wire grilles: Directly in the special profile slot
- Fastening of panel elements: In the special profile slot using spring clamping elements (accessories)
- The profiles are connected using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

Required accessories:

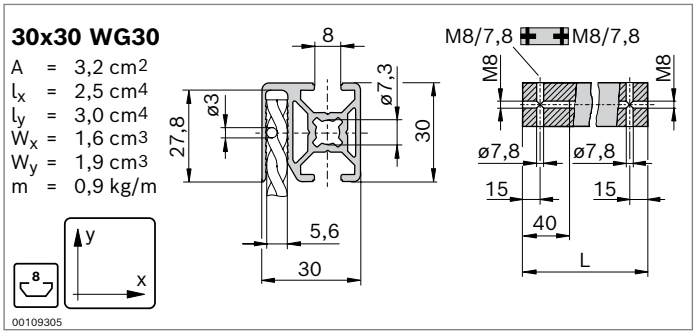
- Central bolt (p. 3-43)
- Spring clamping elements (p. 10-29)

10



### 30x30 WG30

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

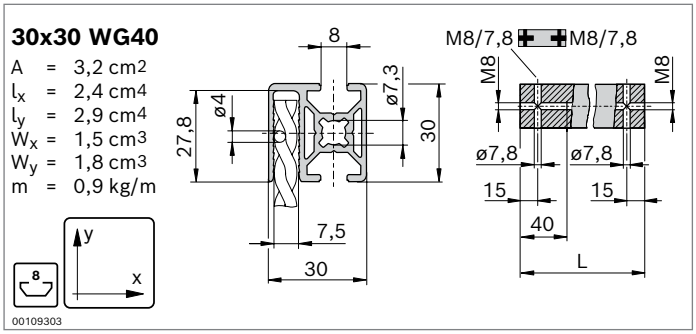



| Frame profile 30x30 WG30 | | | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | | 100 ... 6070 | **3 842 992 970 / L** |
| 1 pc | M8/7,8 | M8/7,8 | 100 ... 6000 | **3 842 992 977 / L** |
| 1 pc | | | 6070 | **3 842 557 237** |
| 20 pcs | | | 6070 | **3 842 557 227** |

Material: Aluminum; anodized

### 30x30 WG40

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

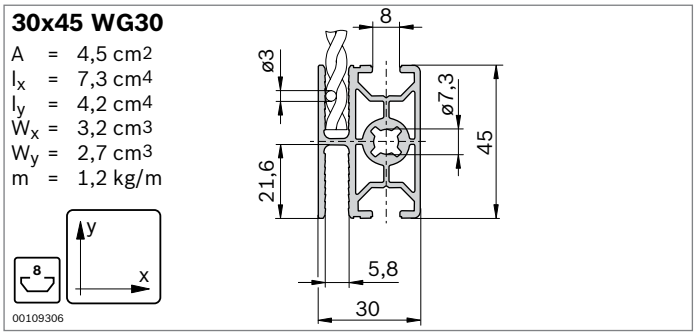



| Frame profile 30x30 WG40 | | | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | | 100 ... 6070 | **3 842 992 972 / L** |
| 1 pc | M8/7,8 | M8/7,8 | 100 ... 6000 | **3 842 992 978 / L** |
| 1 pc | | | 6070 | **3 842 557 239** |
| 20 pcs | | | 6070 | **3 842 557 229** |

Material: Aluminum; anodized

### 30x45 WG30

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

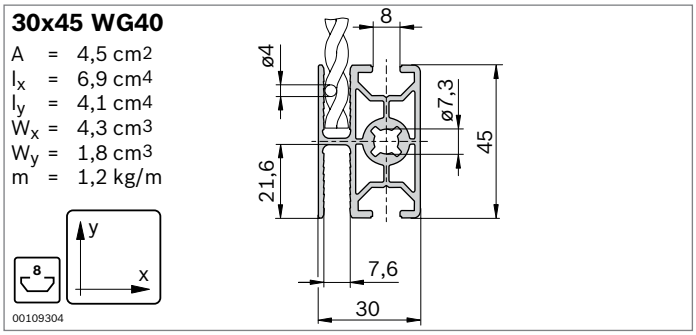



| Frame profile 30x45 WG30 | | | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | | 100 ... 6070 | **3 842 992 971 / L** |
| 1 pc | | | 6070 | **3 842 557 238** |
| 20 pcs | | | 6070 | **3 842 557 228** |

Material: Aluminum; anodized

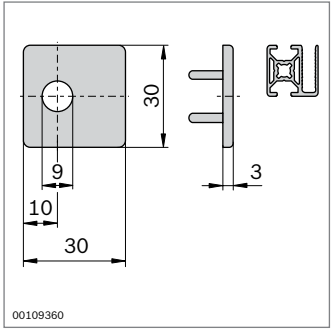
### 30x45 WG40

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




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

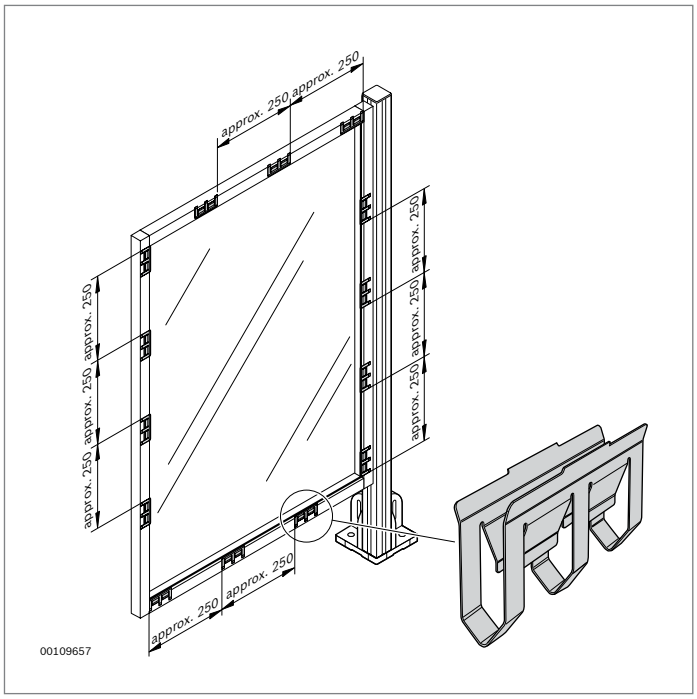
Material: Aluminum; anodized




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

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

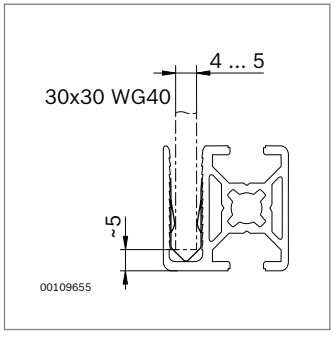
Material: PP

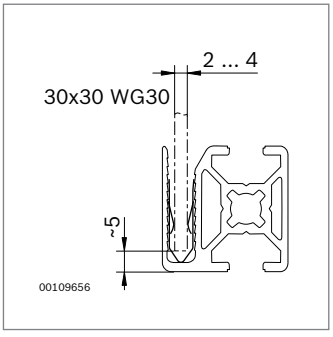


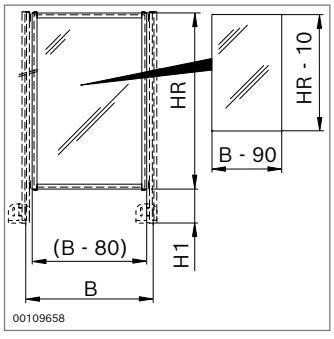

## Spring clamping element

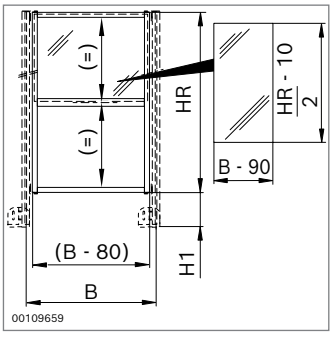
- For clamping panel elements in EcoSafe safety fence profiles 30x30 WG30 and 30x30 WG40
- Play-free clamping
- Individual sections of the protective frames can be filled as you wish

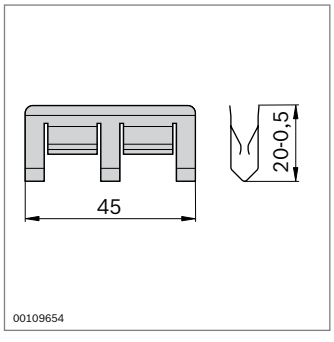




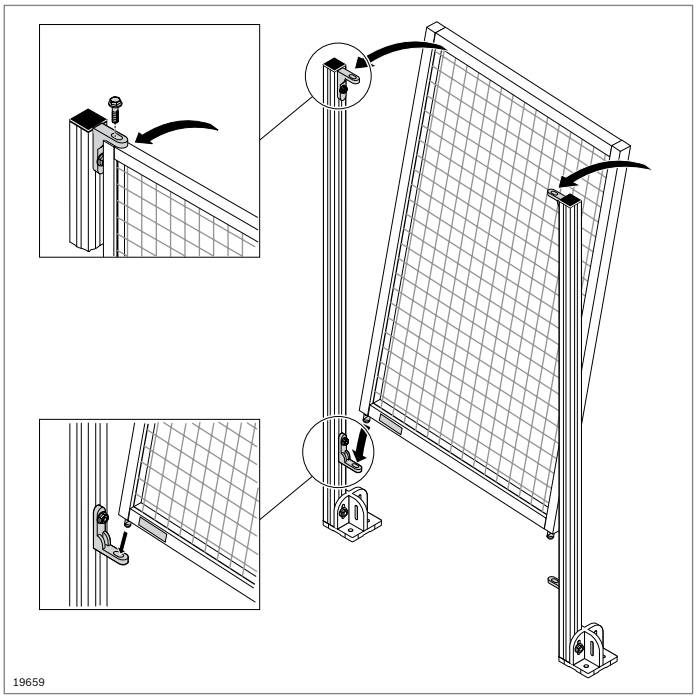




| Spring clamping element | | No. |
|---|---|---|
| | 100 | **3 842 525 014** |
| Material: | Spring steel; stainless | |




# Suspension bracket
# Safety Strip safety kit

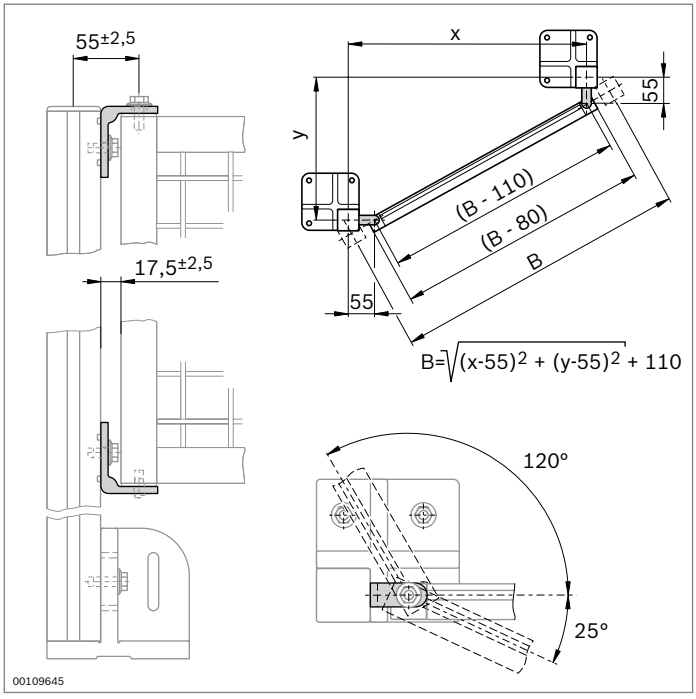
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## Suspension bracket

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

## Safety Strip safety kit

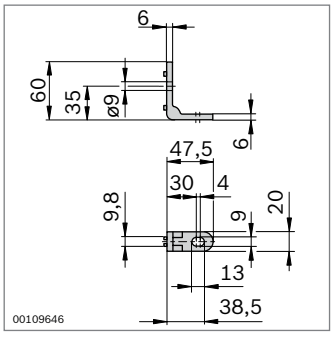
- Safe and inexpensive
- Easy assembly; can be retrofitted
- Patented
- Meets the requirements of Machinery Directive 2006/42/EC: Screw remains connected to the suspension bracket after loosening



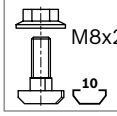

| Suspension bracket | No. | FS |
|---|---|---|
| **Set** | **3 842 522 481** | 4x FS1,<br>2x FS2,<br>2x FS3 |

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

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



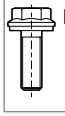

**FS1**

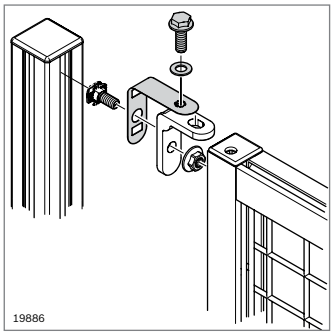


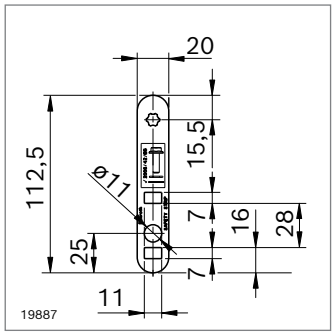

**FS2**




**FS3**




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

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

Scope of delivery: Incl. fastening material (FS)

**FS1**



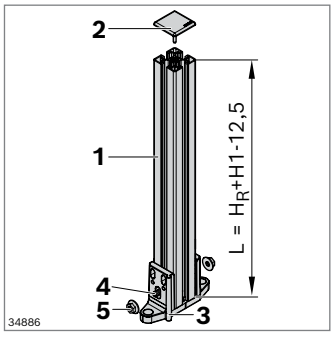
# EcoSafe leg set



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

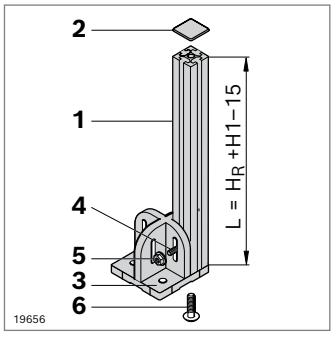
Individually construct the leg sets using standard components






**Leg set with foot 45x45**

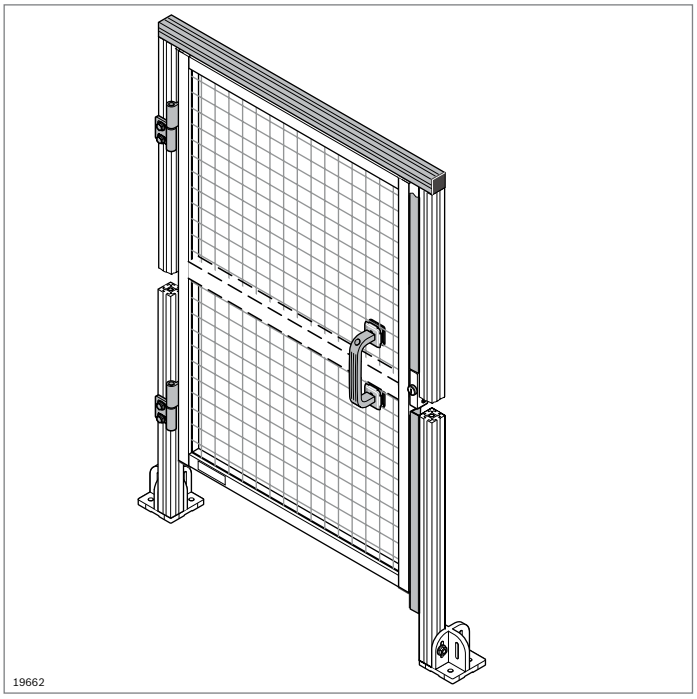
| Component | | Pcs | No. | Page |
|---|---|---|---|---|
| **1** | Profile 45x45L | 1 | **3 842 992 425 / L** | 2-37 |
| **2** | Cover cap 45x45 ESD | 1 | **3 842 548 753** | 2-37 |
| **3** | Foot 45x45 | 1 | **3 842 564 814** | 6-12 |
| **4** | T-bolt M8x25 | 2 | **3 842 528 718** | 3-6 |
| **5** |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




**Leg set with base plate 120x120**

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

# Door kits

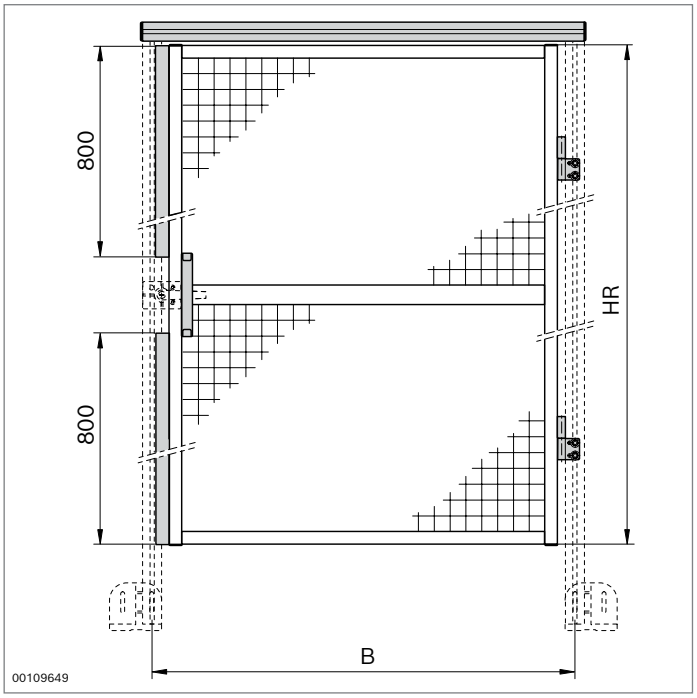



## EcoSafe system door kit

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

Accessories, optional:

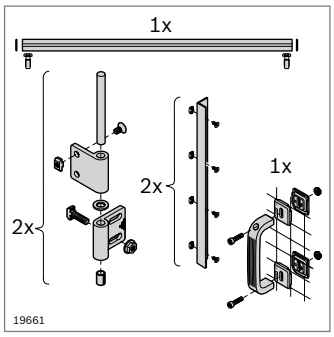
- Door lock (p. 8-12, 8-13, 8-14, 8-16, 8-18, 8-20)
- Attachment kit for safety switch (p. 10-40)
- Base plate 150x150 (3 842 524 469) with leg set made of 45x90L profiles
- For doors HR > 1850 mm, an additional hinge (3 842 544 562) is recommended

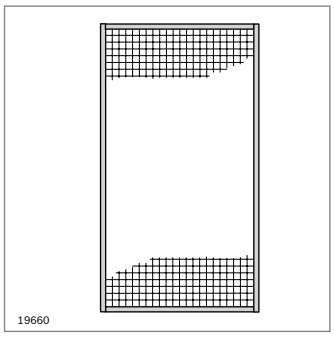



| Assembly kit for system door | HR* (mm) | B (mm) | No. |
|---|---|---|---|
| | 1800 ... 2350 | 750 | **3 842 523 165** |
| | 1800 ... 2350 | 1000 | **3 842 523 166** |

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

* HR dependent on protective frame (HR)




## Selection of suitable protective frames

**Frame profile 22.5x45**

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

[1] horizontally divided

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

Scope of delivery: Fully assembled

**Frame profile 30x30 WG40**

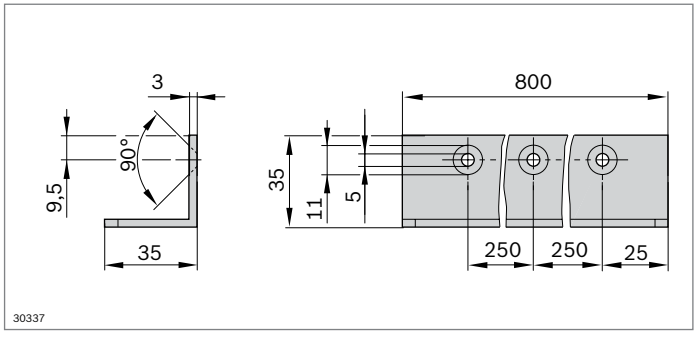
| Protective frame | HR (mm) | B (mm) | No. |
|---|---|---|---|
| **Protective frame, galvanized** | 1800 | 750 | **3 842 554 283** |
| **Protective frame[1], galvanized** | 1800 | 1000 | **3 842 554 281** |

[1] horizontally divided

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

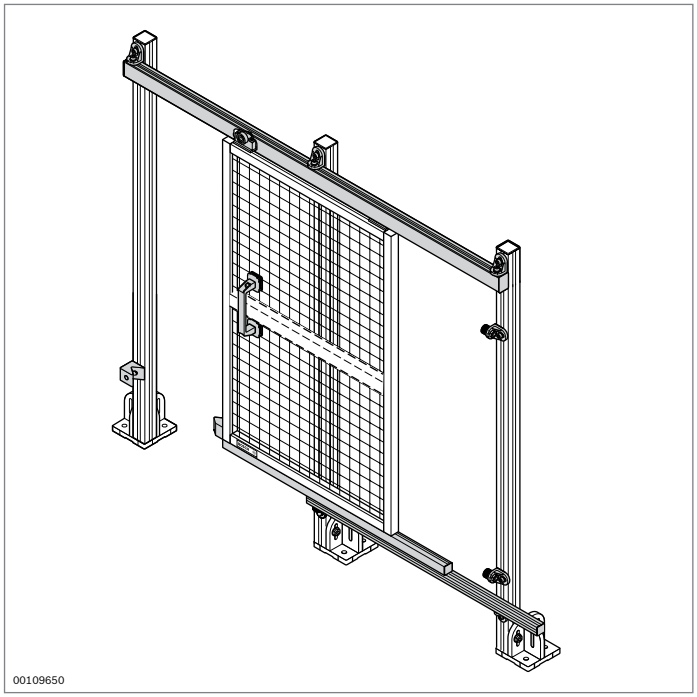
Scope of delivery: Fully assembled






▶ System door stop rail for self-assembly

| Stop rail | No. |
|---|---|
| | **3 842 523 170** |

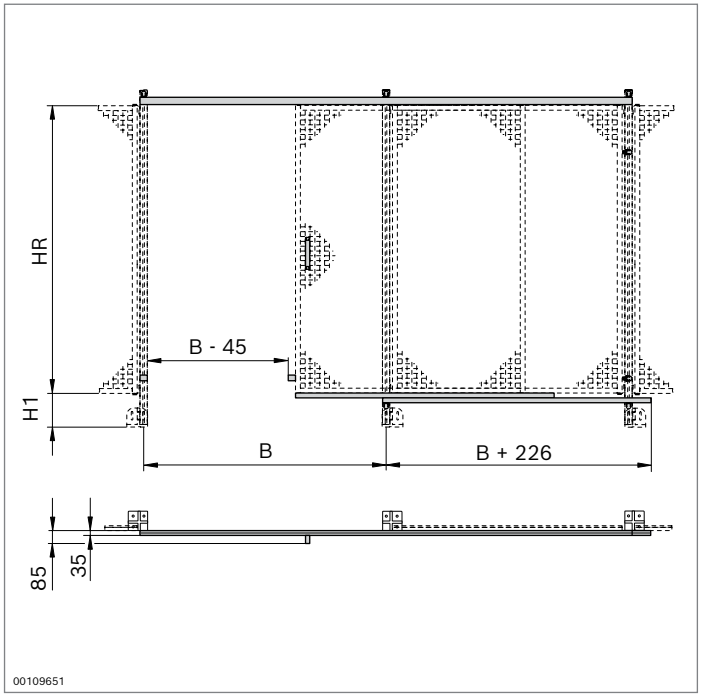



## EcoSafe assembly kit for sliding door with superstructure

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

Accessories, optional:

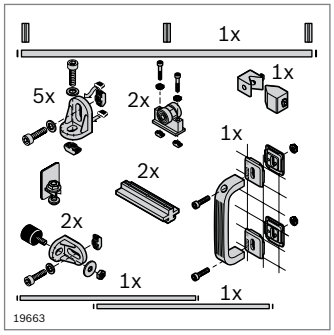
- Door lock (p. 8-12, 8-14, 8-16, 8-20)
- Base plate 150x150 (3 842 524 469) with leg set made of 45x90L profiles

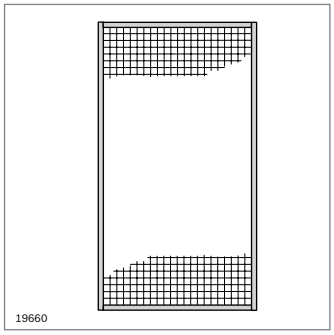



| **Assembly kit for sliding door with superstructure** | **HR*** (mm) | **B** (mm) | **No.** |
|---|---|---|---|
| | 1800 … 2350 | 1000 | **3 842 524 163** |
| | 1800 … 2350 | 1500 | **3 842 524 164** |

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

* HR dependent on protective frame (HR)




## Selection of suitable protective frames

**Frame profile 22.5x45**

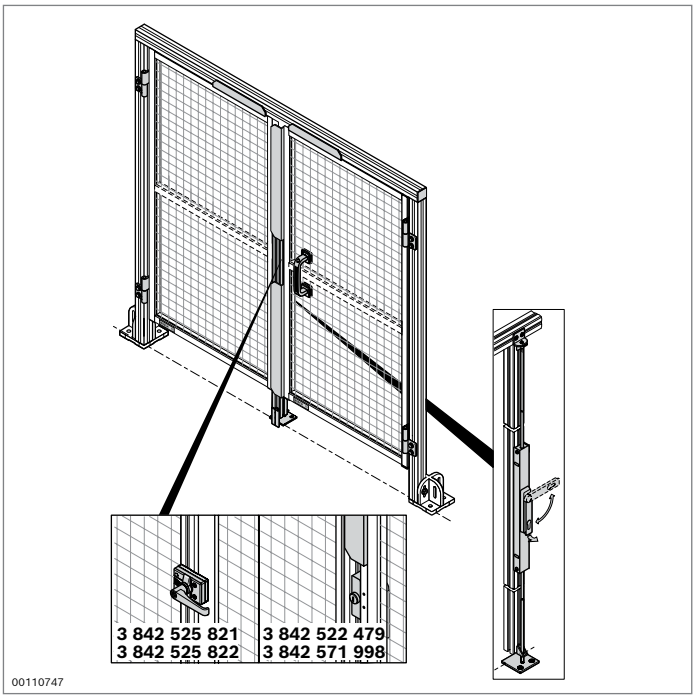
| Protective frame | HR (mm) | B (mm) | No. |
|---|---|---|---|
| **Protective frame HF, galvanized** | 1850 | 1000 | **3 842 567 947** |
| **Protective frame HF, black** | 1850 | 1000 | **3 842 567 951** |
| **Protective frame HF, galvanized** | 1850 | 1500 | **3 842 567 948** |
| **Protective frame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

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

**Frame profile 30x30 WG40**

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

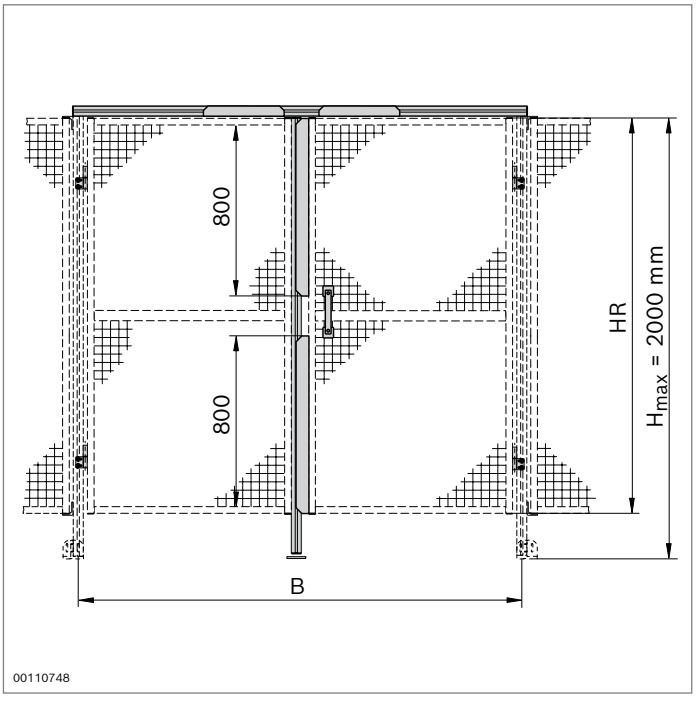
Material: Aluminum; woven wire grille and fastening material: Steel; zinc-plated
Scope of delivery: Fully assembled




## EcoSafe double door kit

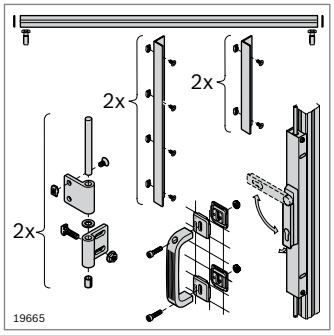
- Assembly kit for installing an EcoSafe double door
- Use of finished protective frame as a door
- Easy subsequent installation in a safety fence
- Optional installation of a standard lock cylinder in the lock mechanism for double door
- Required components:
  - Double door kit
  - Two protective frames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

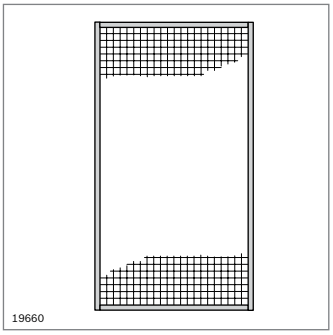
Accessories, optional:
- Door lock (p. 8-12/8-13)
- Attachment kit for safety switch (p. 10-40)
- Conventional lock cylinder 35/35 (not included in the scope of delivery)
- Base plate 150x150 (3 842 524 469) with leg set made of 45x90L profiles




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

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




## Selection of suitable protective frames

**Frame profile 22.5x45**

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

[1] horizontally divided

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

Scope of delivery: Fully assembled

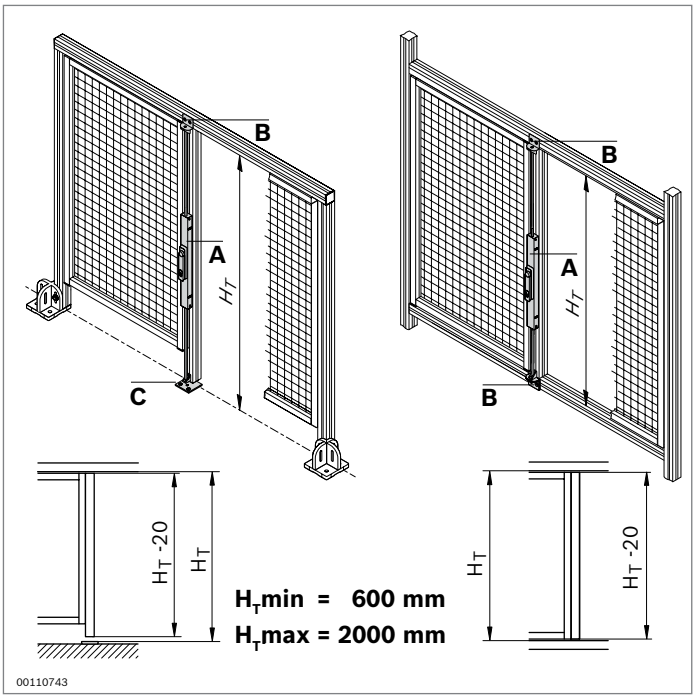
**Frame profile 30x30 WG40**

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

[1] horizontally divided

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

Scope of delivery: Fully assembled

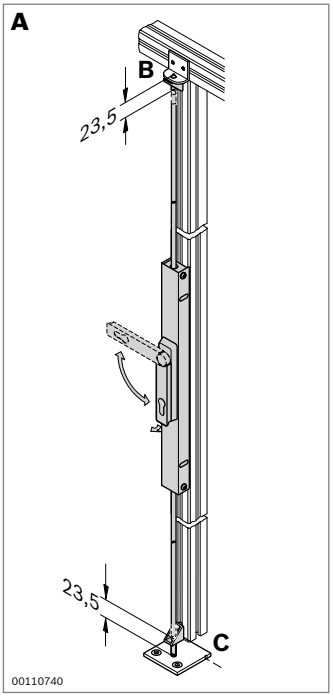


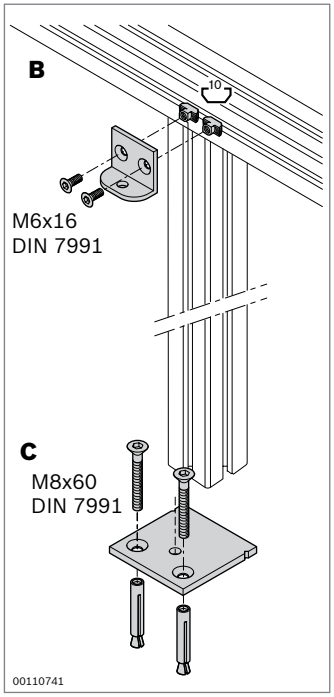

## Lock mechanism for double door




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

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




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

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

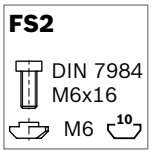
| Lock bracket | No. | FS |
|---|---|---|
| **B** | **3 842 526 786** | 2xFS4 |

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

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

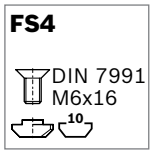
| | |
|---|---|
| Material: | Floor plate: Steel; stainless<br>Floor dowel: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |



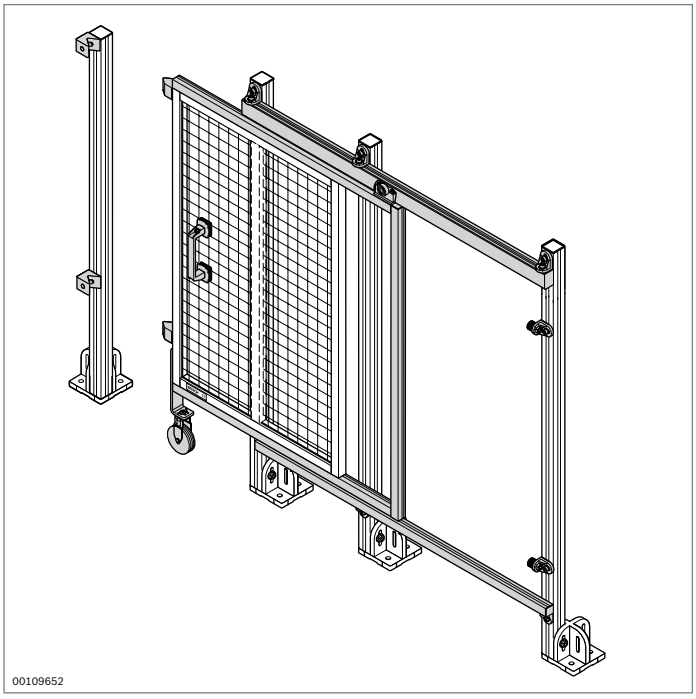









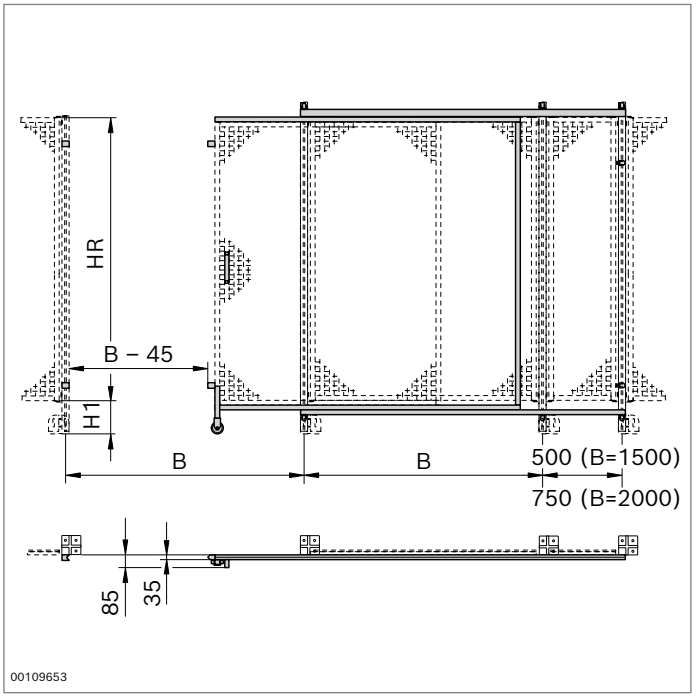



## EcoSafe assembly kit for sliding door without superstructure

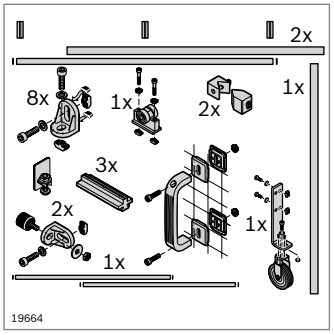
- Only suitable for frame profile 30x30 WG40
- Assembly kit for installing an EcoSafe sliding door without superstructure
- Use of finished protective frame as a door
- Rollers with ball bearings for smooth running
- For doors that open to the left or right
- Required components:
  - Assembly kit for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

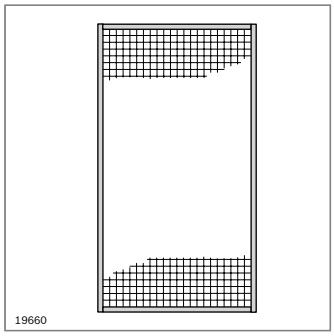
Accessories, optional:
Door lock (p. 8-12/8-14)




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

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



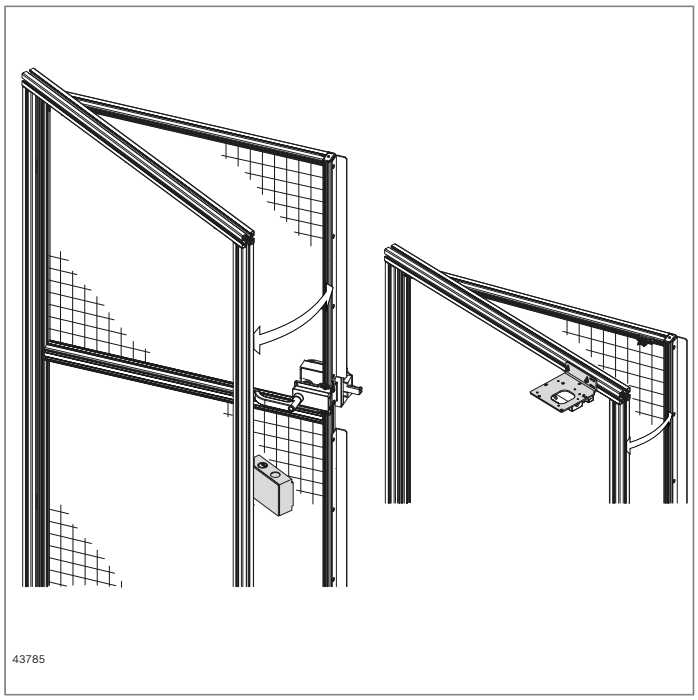




### Selection of suitable protective frames

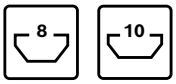
**Frame profile 30x30 WG40**

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

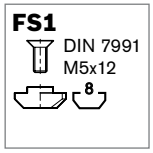
Material: Aluminum; woven wire grille and fastening material: Steel; zinc-plated
Scope of delivery: Fully assembled

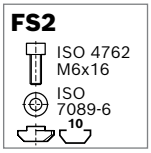



## Attachment kits for safety switches




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

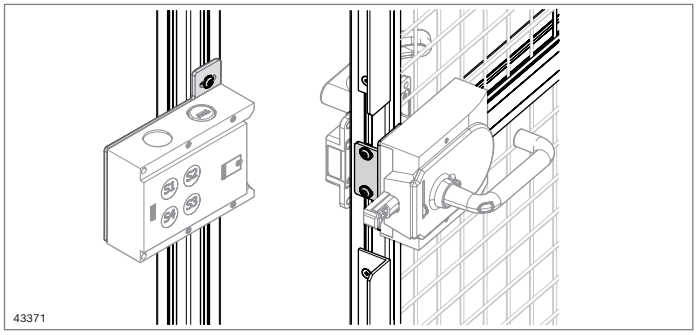


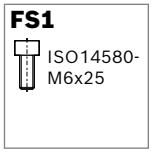

| Attachment kit for safety switch | | No. | FS |
|---|---|---|---|
| **For safety switch** | **For actuator** | | |
| Euchner NZ 1 VZ... | 024298; 024299 | **3 842 522 475*** | 2xFS1, 2xFS2 |
| Euchner NZ 2 VZ... | 024298; 024299 | | |
| Euchner NZ 1 VS... | 024298; 024299 | | |
| Euchner NZ 2 VS...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

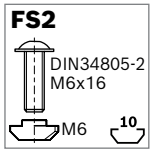
*) for 30x30 WG40; **) for 22.5x45 and 30x30 WG40

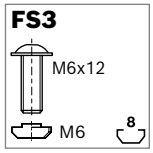
Material: Steel; zinc-plated
Scope of delivery: Incl. adapter plate, bracket, incl. fastening material (FS)

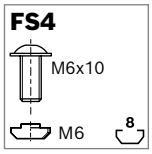


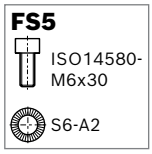

- For frame profiles 30x30WG and 22.5x45
- Adapter plate for attachment of Euchner MGB and MGB2 switches
- Attention: Euchner attachment plate needed for assembly. Order data:
  MGB-A-Mountingplate-L Article number: 109490



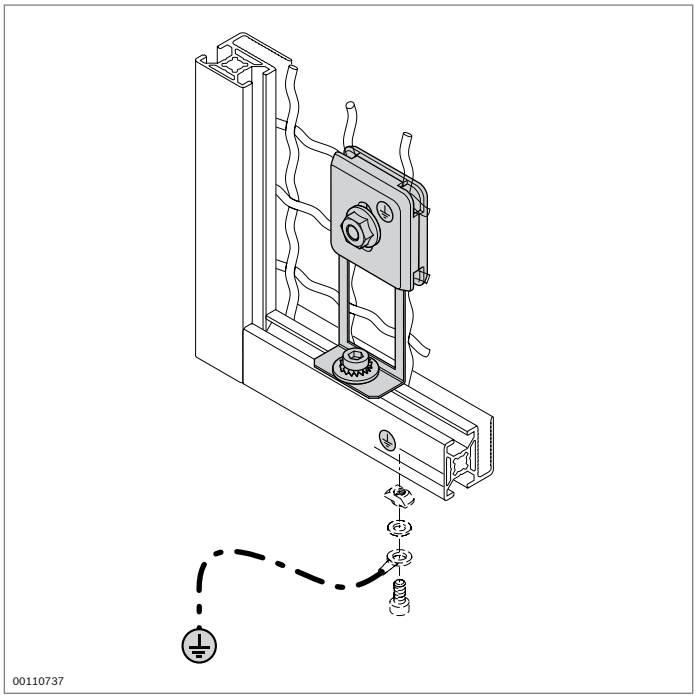



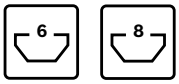

| Attachment kit Safety Switch PG T4 | Slot | ESD | No. | FS |
|---|---|---|---|---|
| | 10/8 | | **3 842 567 404** | 2xFS1<br>2xFS2<br>2xFS3<br>2xFS4<br>2xFS5 |

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

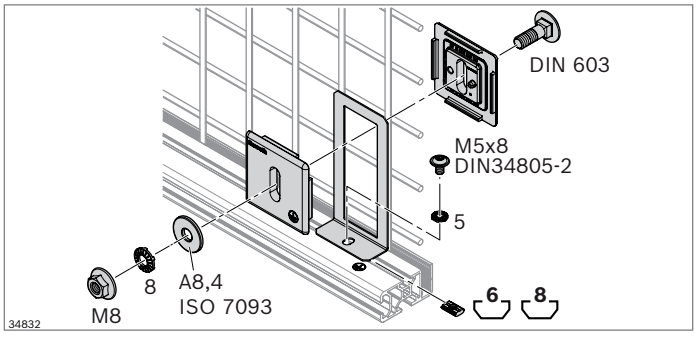
# Accessories



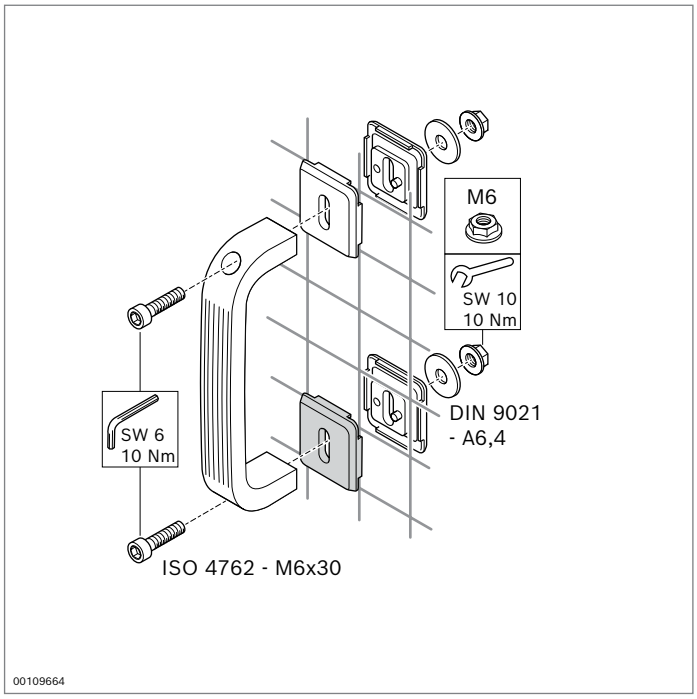

## Ground terminal




- 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



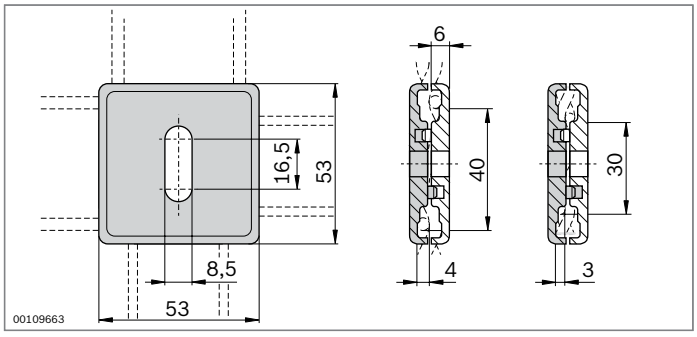

| Ground terminal EcoSafe PG | No. |
|---|---|
| | **3 842 567 957** |
| Material: | Ground terminal: Steel; stainless<br>Clamping element: PA; signal gray<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. Fastening material |




## 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



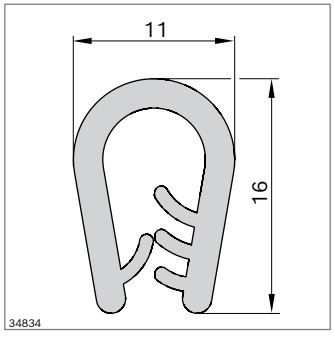

| Clamping element | | | No. |
|---|---|---|---|
| | | 20 | **3 842 555 178** |
| Material: | PA66; signal gray (RAL 7004) | | |

10

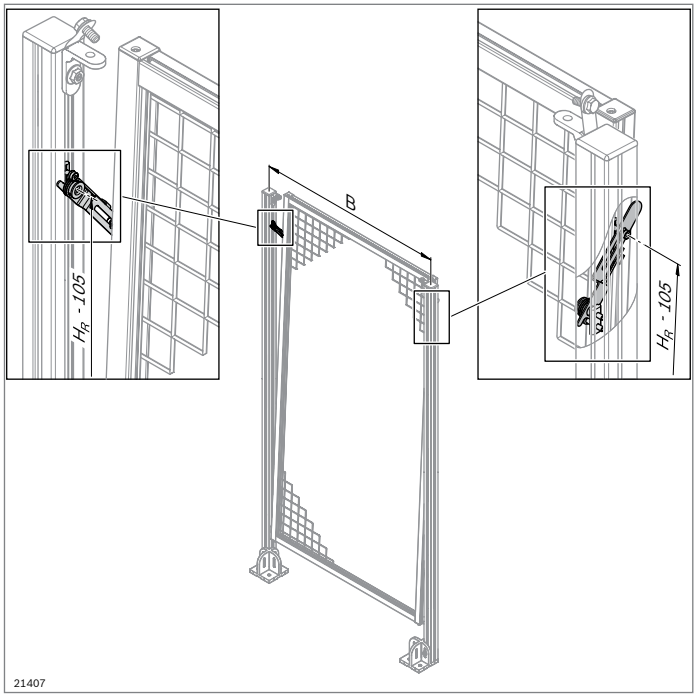


## Edge protector

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

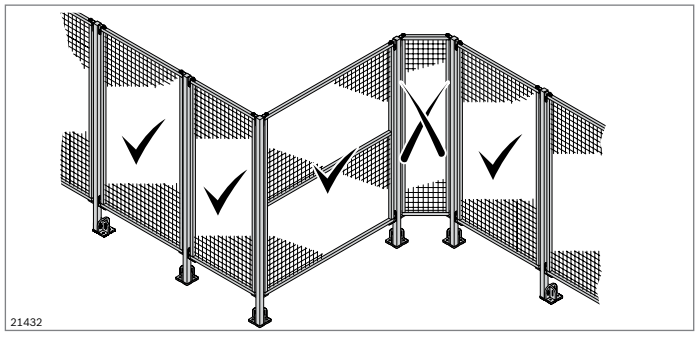



| Edge protector | | L (mm) | No. |
|---|---|---|---|
| | | 1000 | **3 842 567 937** |
| Material: | PVC with metal clamp band; black | | |



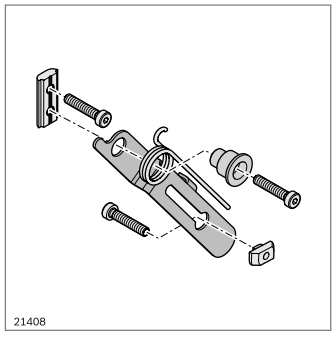

## Tilt lever

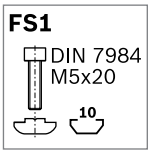
- For compliance with the requirement in Machinery Directive 2006/42/EC relating to the detaching of protective frames
  - The long-arm spring is designed so that it tilts the protective frame outwards, making it clear that the protective frame is detached
  - Protective frame cannot fall out
- Easily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




Possible installation situation:

- Not suitable for installing the protective frame across a corner

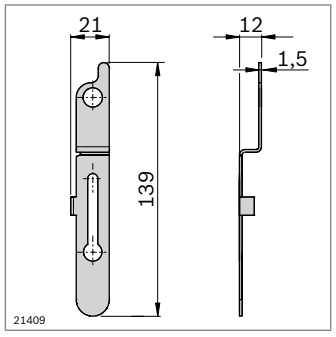


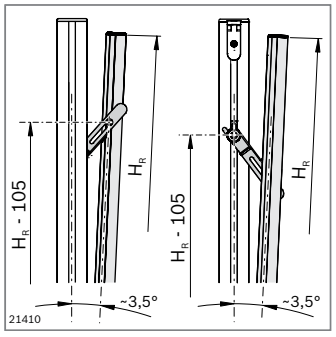



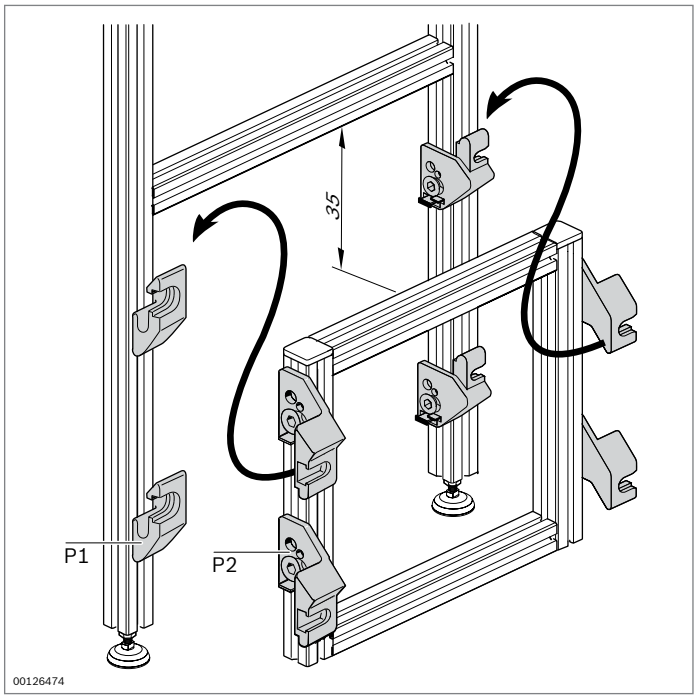




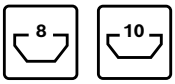
| Tilt lever | | No. | FS |
|---|---|---|---|
| | | **3 842 546 560** | FS1, FS2 |
| Material: | Holding plate: Stainless steel<br>Spacer: Aluminum<br>Long-arm spring: Spring steel | | |
| Scope of delivery: | Holding plate, spacer, long-arm spring, fastening material (FS) | | |



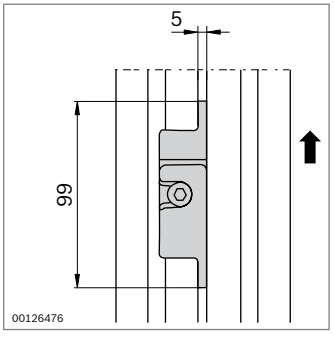



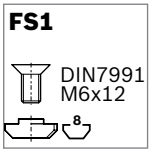


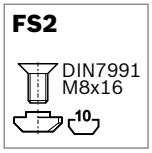

## Suspension piece for frames

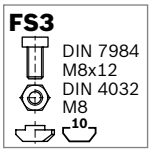


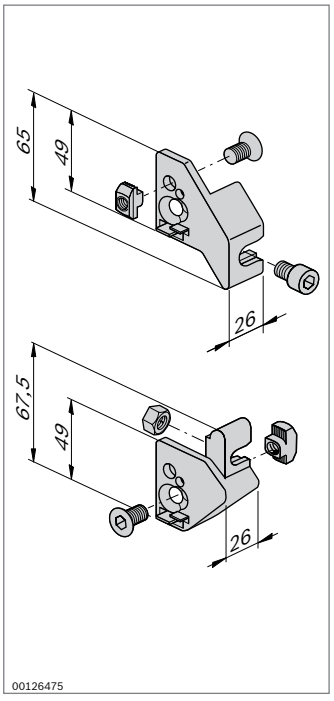

- Very quick fitting and removal of pre-assembled frames in prepared supporting structures
- Protection against unintentional lifting out due to both parts of the suspension piece being screwed in
- Notes on compliance with the Machinery Directive 2006/42/EC: Please note that fastening parts may work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



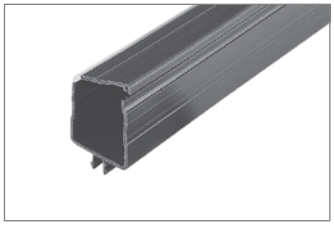



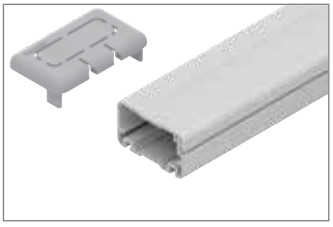

| Suspension piece | P1 | P2 | No. | FS |
|---|---|---|---|---|
| **Set** | 45 | 30 | **3 842 515 531** | 4x FS1,<br>4x FS2,<br>4x FS3 |
| **Set** | 45 | 45 | **3 842 515 863** | 8x FS2,<br>4x FS3 |

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

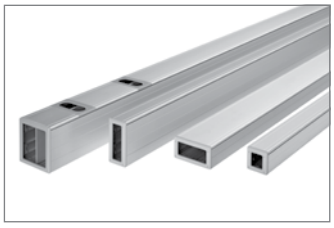
# Installation elements



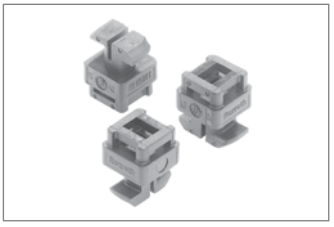
Cable duct, plastic
(p. 11-2)



Cable duct universal
(see 11-3)



Cable duct AL (p. 11-5)



Cable bracket (p. 11-11)



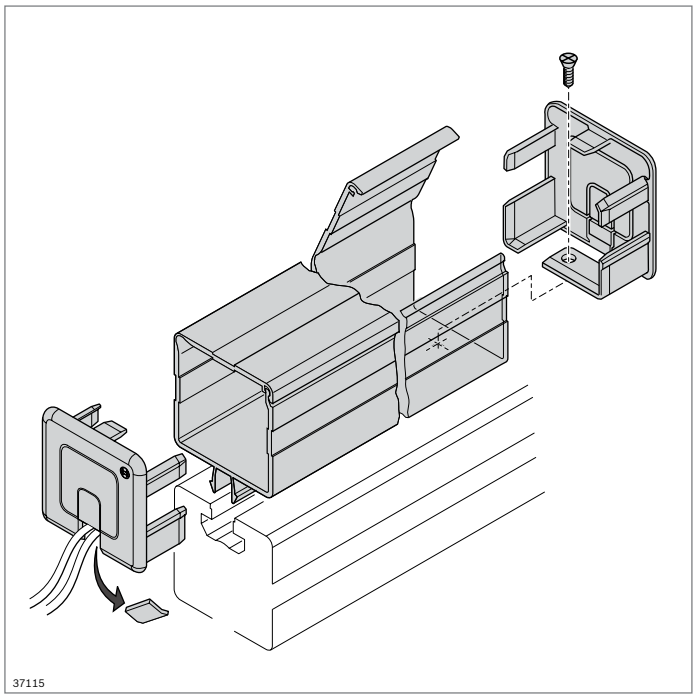
Cable bracket loop
(p. 11-12)



Quick-lock (p. 11-13)

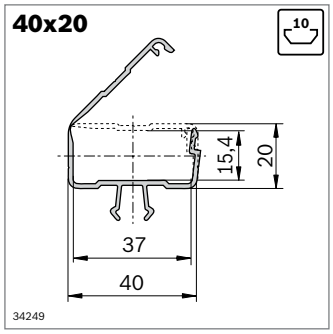
Electrical leads must be laid neatly. This is because electrical faults can only be easily located and rectified if the installation has been carried out in a clear and orderly manner.

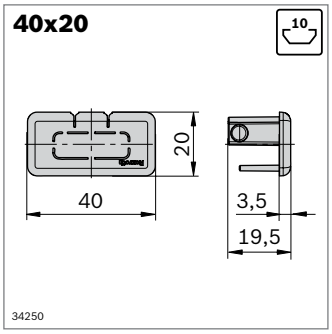
Cable ducts and cable brackets are therefore important elements for maintenance-friendly electrical installation on all types of constructions made using the aluminum profile toolkit.




## Cable duct, plastic

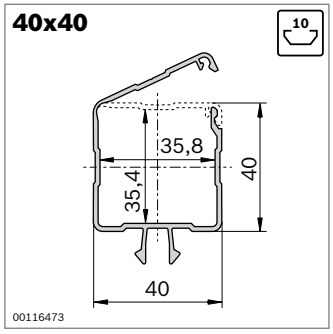
- Cable duct for routing electrical lines
- Captive cover
- Very easy to access
- Large usable volume
- Simple, fast assembly – just clips into the 10 mm slot
- Cover cap for sealing the cable duct with pre-punched holes for running cables through
- VDE certified
- An ESD-conductive connection made of plastic between the profile and the cable duct must be ensured by a suitable design solution, e.g. screw

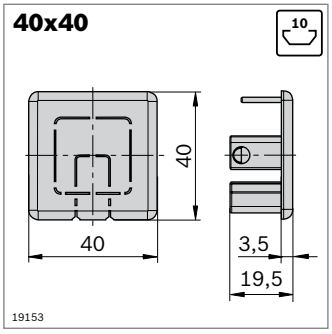



| | L (mm) | Color | ESD | | No. |
|---|---|---|---|---|---|
| **Cable duct 40x20** | 2000 | Signal gray | | 1 | **3 842 557 443** |
| **Cover cap 40x20** | | Signal gray | | 10 | **3 842 557 444** |
| **Cable duct 40x20** | 2000 | Black | ESD | 1 | **3 842 555 670** |
| **Cover cap 40x20** | | Black | ESD | 10 | **3 842 555 671** |

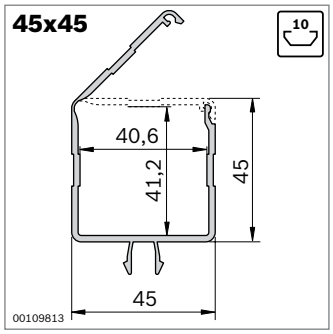
Material: Cable duct: PVC
Cover cap: PP
Scope of delivery: Cover cap incl. fastening screws

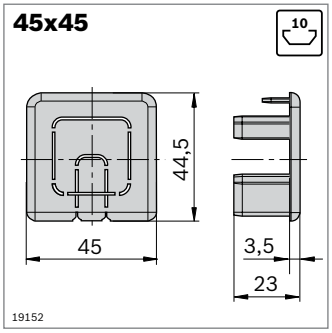



| | L (mm) | Color | ESD | | No. |
|---|---|---|---|---|---|
| **Cable duct 40x40** | 2000 | Signal gray | | 1 | **3 842 549 894** |
| **Cover cap 40x40** | | Signal gray | | 10 | **3 842 551 004** |
| **Cable duct 40x40** | 2000 | Black | ESD | 1 | **3 842 549 895** |
| **Cover cap 40x40** | | Black | ESD | 10 | **3 842 551 005** |

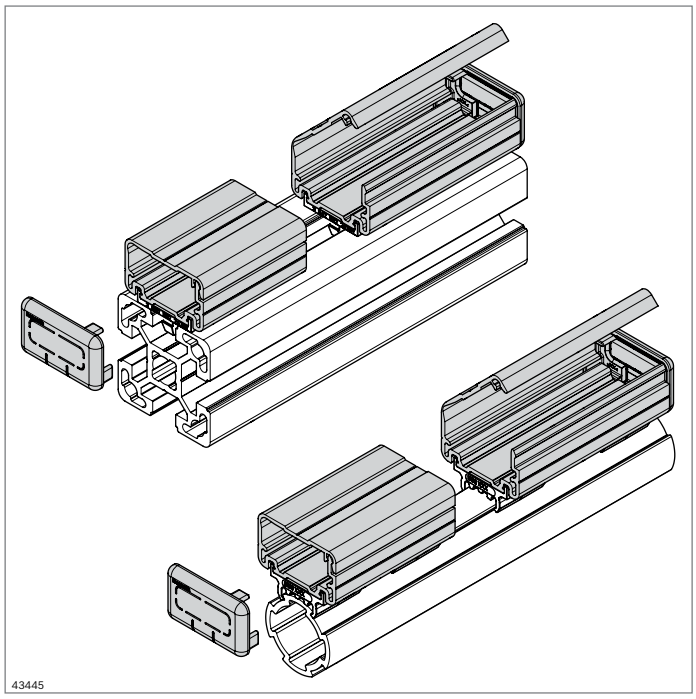
Material: Cable duct: PVC
Cover cap: PP
Scope of delivery: Cover cap incl. fastening screws



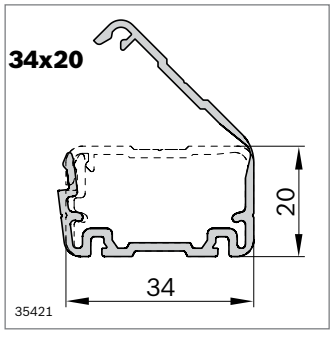

| | L (mm) | Color | ESD | | No. |
|---|---|---|---|---|---|
| **Cable duct 45x45** | 2000 | Signal gray | | 1 | **3 842 549 896** |
| **Cover cap 45x45** | | Signal gray | | 10 | **3 842 551 006** |
| **Cable duct 45x45** | 2000 | Black | ESD | 1 | **3 842 549 897** |
| **Cover cap 45x45** | | Black | ESD | 10 | **3 842 551 007** |

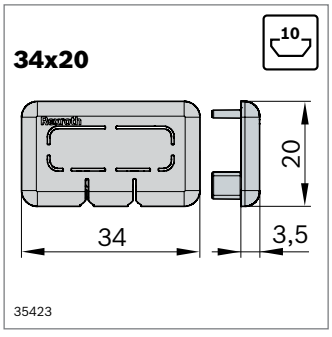
Material: Cable duct: PVC
Cover cap: PP
Scope of delivery: Cover cap incl. fastening screws




## 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*

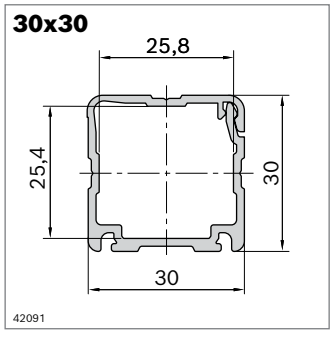


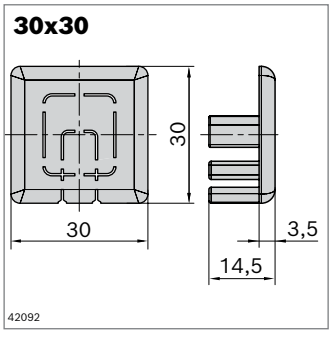




| | L (mm) | Color | ESD | | No. |
|---|---|---|---|---|---|
| **Cable duct 34x20** | 2000 | Signal gray | | 1 | **3 842 559 336** |
| **Cover cap 34x20** | | Signal gray | | 10 | **3 842 559 340** |
| **Cable duct 34x20** | 2000 | Black | | 1 | **3 842 559 335** |
| **Cover cap 34x20** | | Black | | 10 | **3 842 559 339** |

Material: Cable duct: PVC
Cover cap: PP

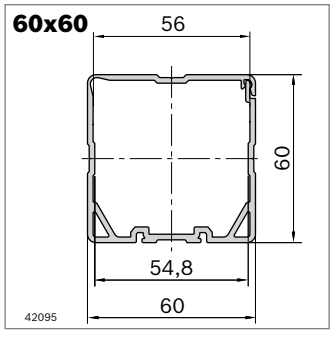
* Cable duct 34x20 not VDE-certified

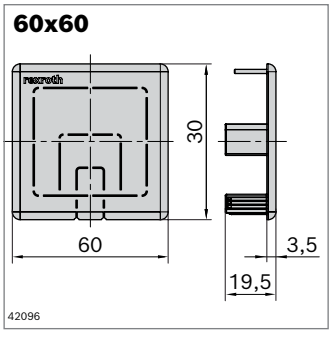



| | L (mm) | Color | ESD | | No. |
|---|---|---|---|---|---|
| **Cable duct 30x30** | 2000 | Signal gray | | 1 | **3 842 562 096** |
| **Cover cap 30x30** | | Signal gray | | 10 | **3 842 562 100** |
| **Cable duct 30x30** | 2000 | Black | | 1 | **3 842 562 095** |
| **Cover cap 30x30** | | Black | | 10 | **3 842 562 099** |

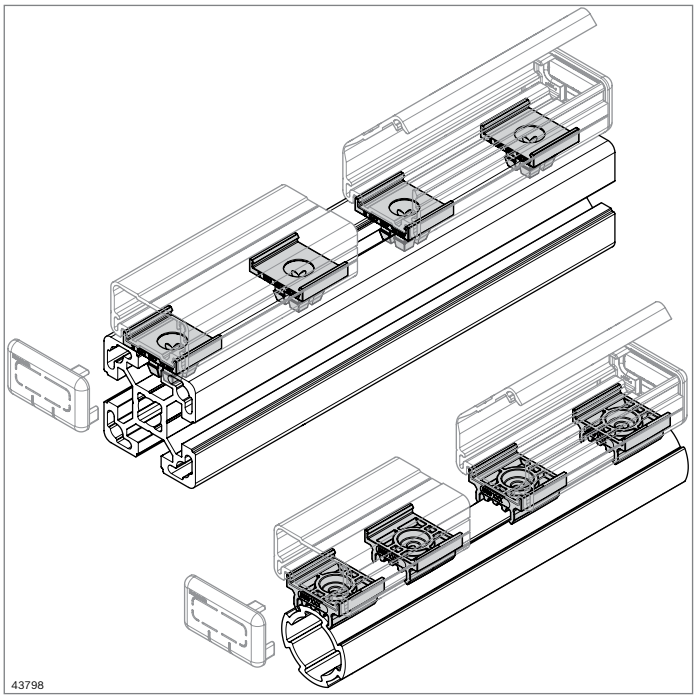
Material: Cable duct: PVC
Cover cap: PP



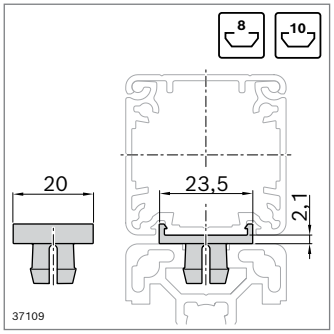

| | L (mm) | Color | ESD | | No. |
|---|---|---|---|---|---|
| **Cable duct 60x60** | 2000 | Signal gray | | 1 | **3 842 562 098** |
| **Cover cap 60x60** | | Signal gray | | 10 | **3 842 562 102** |
| **Cable duct 60x60** | 2000 | Black | | 1 | **3 842 562 097** |
| **Cover cap 60x60** | | Black | | 10 | **3 842 562 101** |

Material: Cable duct: PVC
Cover cap: PP



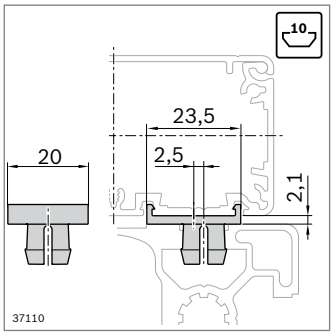

## Mounting base

- 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



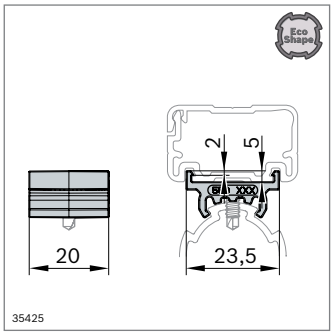

- “Symmetrical mounting base” design for central installation of the cable duct on profiles

| Mounting base | Slot | Color | ESD | | No. |
|---|---|---|---|---|---|
| **Symmetrical** | 8 | Signal gray | | 10 | **3 842 562 121** |
| | 8 | Black | ⚠ | 10 | **3 842 564 725** |
| | 10 | Signal gray | | 10 | **3 842 552 247** |
| | 10 | Black | ⚠ | 10 | **3 842 564 726** |
| Material: | PA | | | | |




- “Symmetrical mounting base” design for central mounting on profiles with multiple slots on the mounting side and 45 mm modular dimension

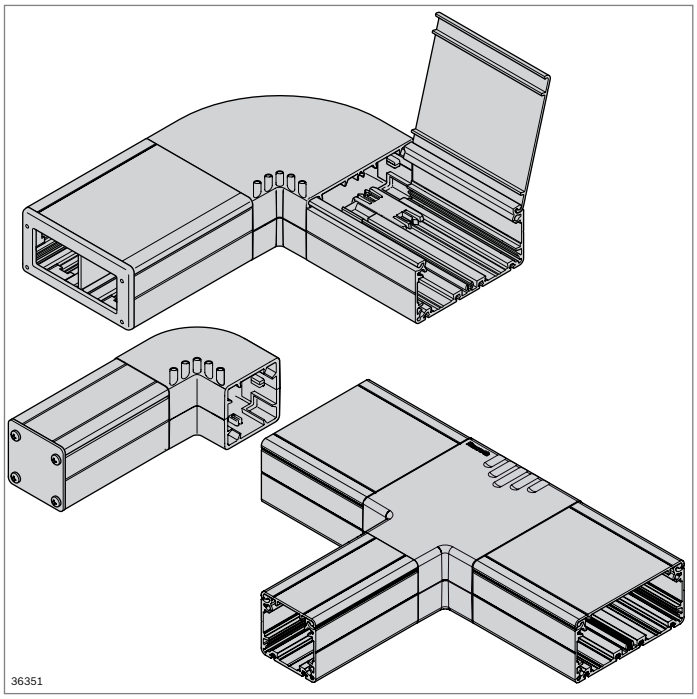
| Mounting base | Slot | Color | ESD | | No. |
|---|---|---|---|---|---|
| **Asymmetrical** | 10 | Signal gray | | 10 | **3 842 552 248** |
| | 10 | Black | ⚠ | 10 | **3 842 564 727** |
| Material: | PA | | | | |

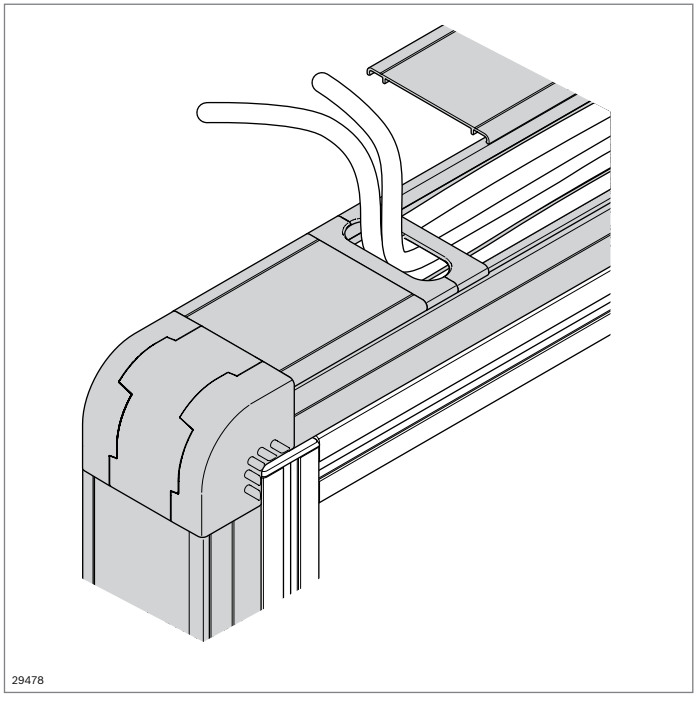



- Additional stabilization of D28L mounting bases and establishing an ESD-compliant connection between profile and base can be realized using self-tapping screw (3 842 552 267)

Recommended accessories: Self-tapping screw

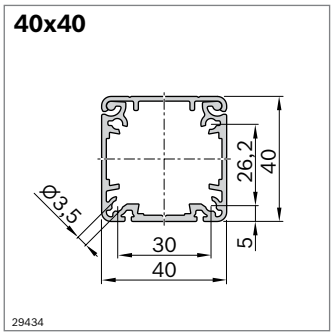
| Mounting base | Color | ESD | | No. |
|---|---|---|---|---|
| **D28L** | Signal gray | | 10 | **3 842 559 338** |
| | Black | ⚠ | 10 | **3 842 559 337** |
| Material: | PA | | | |

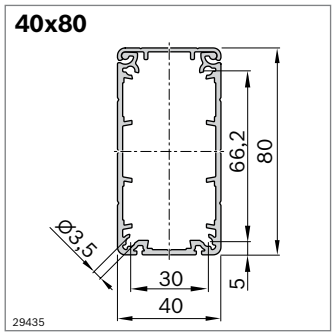


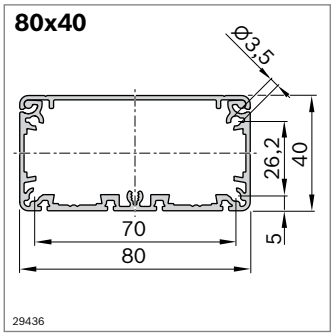



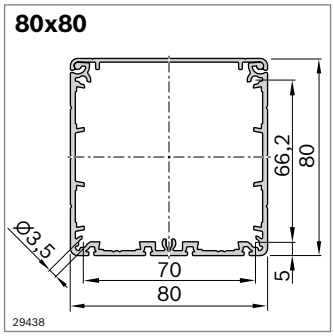

## Aluminum cable duct

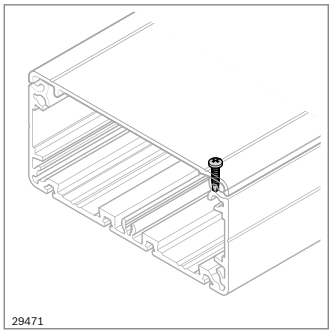
- Can be either clipped or screwed onto the support profile
- Sizes 40x40, 40x80, 80x40, 80x80
- Drilling aids for easy machining
- Dovetail attachment option
- Suitable for installing on profiles with modular dimensions of 40 and 45 mm
- Interior can be divided for routing different cable types (size 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

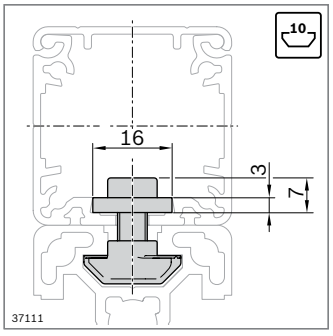



## Aluminum cable duct

- 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 | **40x40** | | 100 ... 3000 | **3 842 996 356/L** |
| 12 pcs | **40x40** | | 3000 | **3 842 552 268** |
| 1 pc | **40x80** | | 100 ... 3000 | **3 842 996 357/L** |
| 12 pcs | **40x80** | | 3000 | **3 842 552 270** |
| 1 pc | **80x40** | | 100 ... 3000 | **3 842 996 358/L** |
| 12 pcs | **80x40** | | 3000 | **3 842 552 273** |
| 1 pc | **80x80** | | 100 ... 3000 | **3 842 996 359/L** |
| 6 pcs | **80x80** | | 3000 | **3 842 552 275** |

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. |
|---|---|---|---|
| **Ze. Pi. 3.5x9.5** | | 10 | **3 842 552 267** |

Material: Steel; zinc-plated

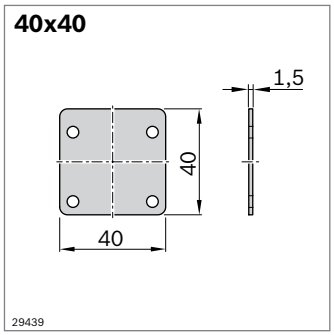
## Mounting kit

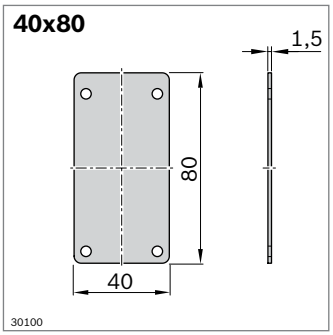
- For screwing the cable duct to the support profile
- Secure force transmission without deformation of the mounting surface
- Cable duct has to be drilled (diameter: 6.4 mm)
- Recommendation: Insert every 500 mm

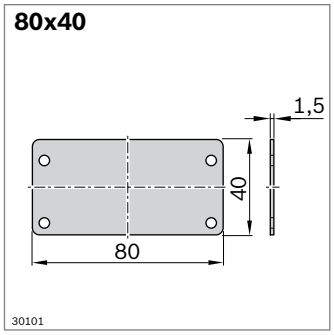
| Mounting kit | ESD | | No. |
|---|---|---|---|
| | | 10 | **3 842 548 997** |

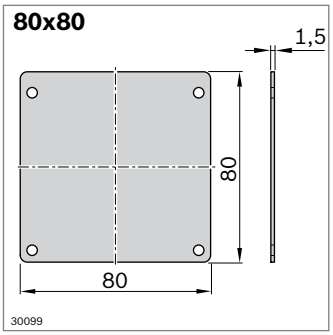
Material: Steel; zinc-plated

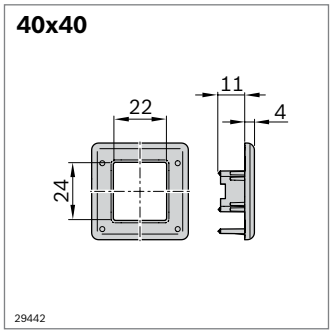
Scope of delivery: Insert sheet; T-nut M6, 10 mm slot; screw M6x16

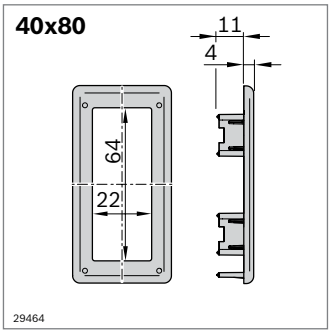


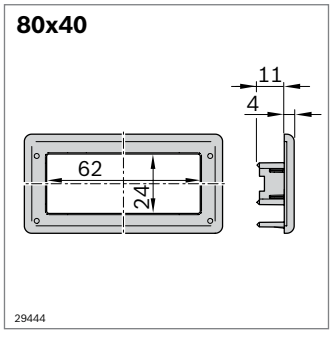



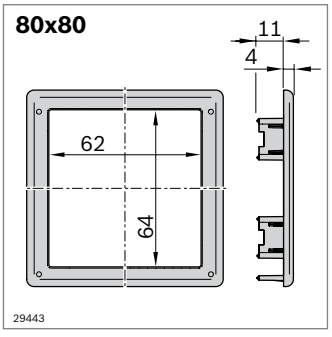




## Cover plate

- 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** |

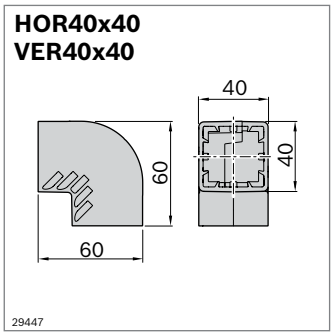
Material: Cover plate: Aluminum; anodized
Pressed edges: Aluminum, plain
Screw: Steel; zinc-plated
Scope of delivery: Cover plate incl. fastening screws

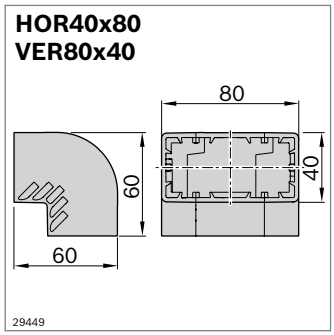
## Edge protector

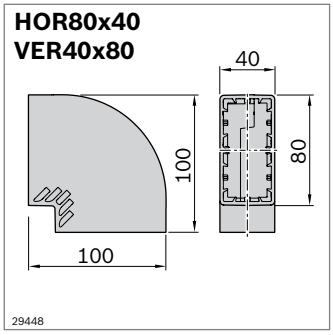
- Used to protect the cables if there is an end face cable outlet
- Can be pushed and also screwed into position
- Can be used to protect the cable at lateral outlets

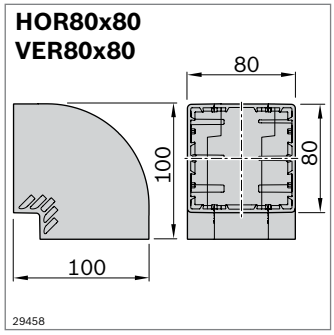
| Edge protector | | No. |
|---|---|---|
| **40x40** | 10 | **3 842 552 253** |
| **40x80** | 10 | **3 842 552 254** |
| **80x40** | 10 | **3 842 552 255** |
| **80x80** | 10 | **3 842 552 256** |

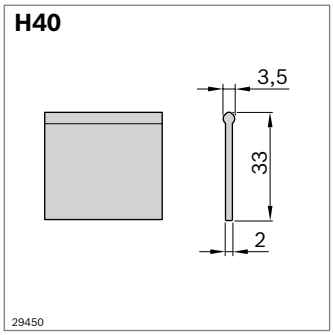
Material: PP; signal gray RAL 7004

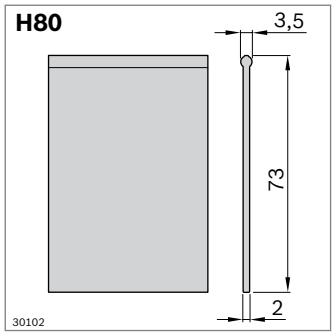


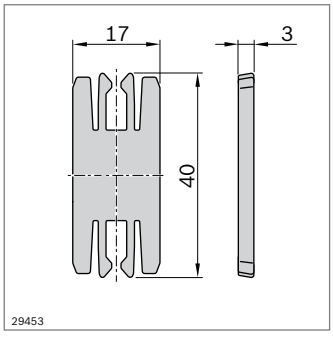




## Curve

- 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*) | | 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** |

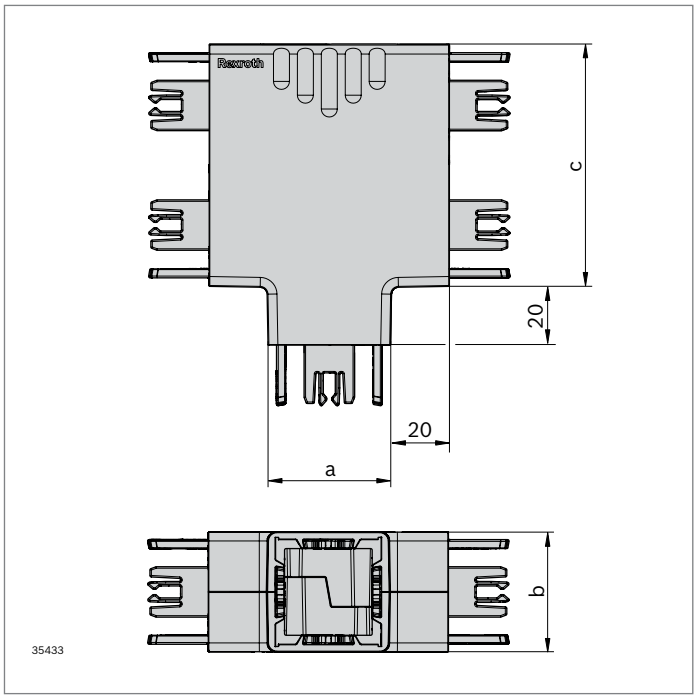
Material: PVC; signal gray RAL 7004

## 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**

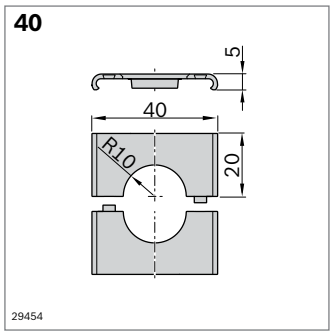
- Modular design
- Cable ducts connected together with push-in connection elements
- Cable ducts can be made conductive by using supplied potential equalizer line
- VDE certified

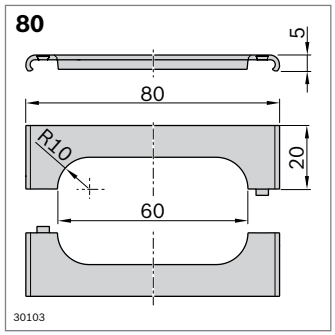
| T-piece cable duct | a (mm) | b (mm) | c (mm) | ESD*) | No. |
|---|---|---|---|---|---|
| **40x40x40** | 40 | 40 | 40 | | **3 842 558 644** |
| **40x40x80** | 40 | 40 | 80 | | **3 842 558 646** |
| **40x80x40** | 40 | 80 | 40 | | **3 842 558 648** |
| **40x80x80** | 40 | 80 | 80 | | **3 842 558 650** |
| **80x40x40** | 80 | 40 | 40 | | **3 842 558 651** |
| **80x40x80** | 80 | 40 | 80 | | **3 842 558 652** |
| **80x80x40** | 80 | 80 | 40 | | **3 842 558 653** |
| **80x80x80** | 80 | 80 | 80 | | **3 842 558 654** |

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

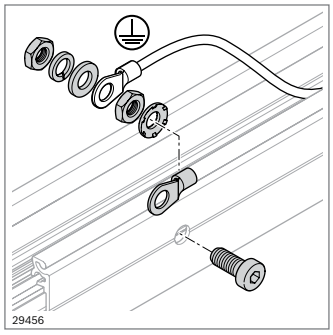



### Cable hole

- For passing cables through within the cover

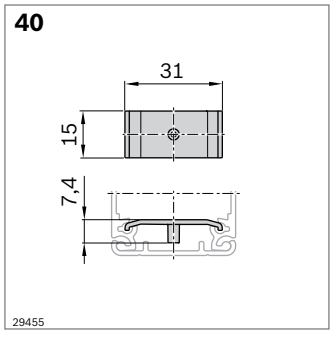
| Cable hole | | | No. |
|---|---|---|---|
| **40** | | 10 | **3 842 553 973** |
| **80** | | 10 | **3 842 553 974** |
| Material: | PP; signal gray RAL 7004 | | |

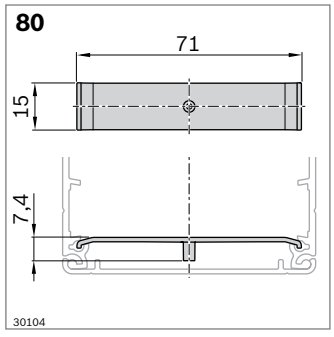



### Potential equalizer

- 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 | | |

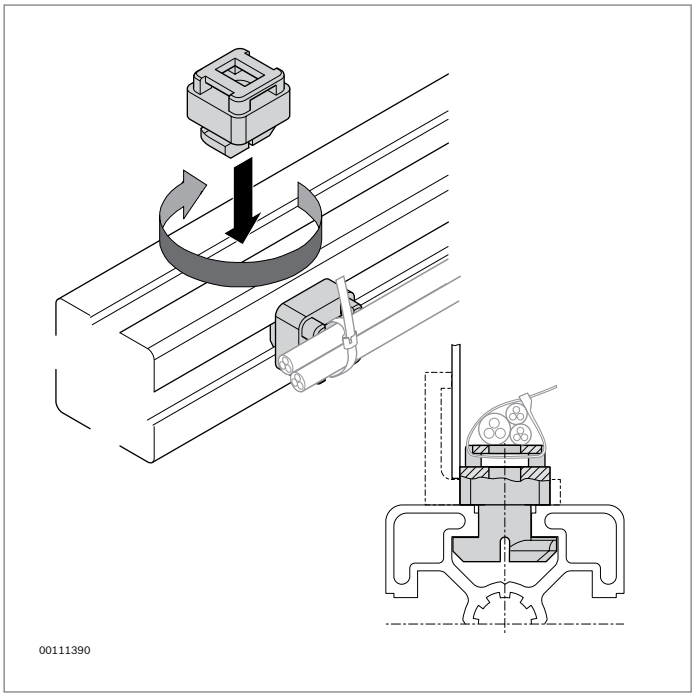


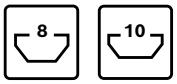

### Cable holder

- 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 | | |

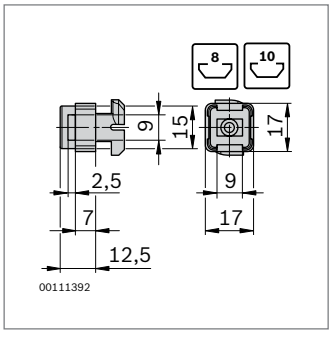



## Cable bracket



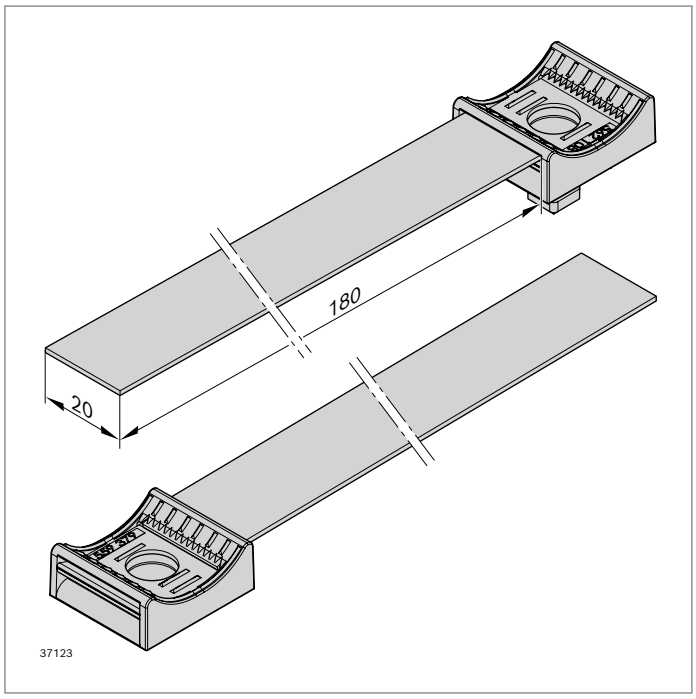

- Cable bracket for fastening individual cables with cable ties
- For use behind panels or screens
- Dimensioned to match the Variofix block for slot 10 mm

Required accessories:
Cable ties

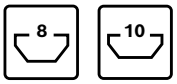



| Cable bracket | | Slot | | No. |
|---|---|---|---|---|
| | | 8 | 100 | **3 842 555 182** |
| | | 10 | 100 | **3 842 555 180** |
| Material: | PA; signal gray RAL 7004 | | | |

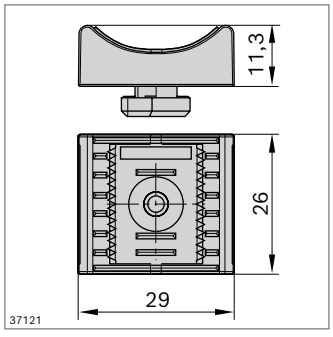
11




## Cable bracket loop

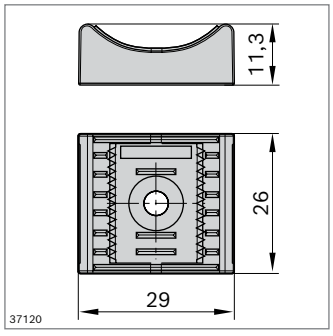



- Cable bracket with Velcro strap for gentle guidance of cables and hoses
- Cable brackets with foot can be screwed into the slot without tools. Installation parallel or vertical to the slot possible.
- Cable bracket loop flat for assembly on panel elements or to EcoShape adapter (3 842 562 115)
- Clamping area: 5 ... 35 mm
- Length: L = 180 mm




| Cable bracket loop | Slot | | No. |
|---|---|---|---|
| | 8 | 10 | **3 842 559 381** |
| | 10 | 10 | **3 842 559 382** |

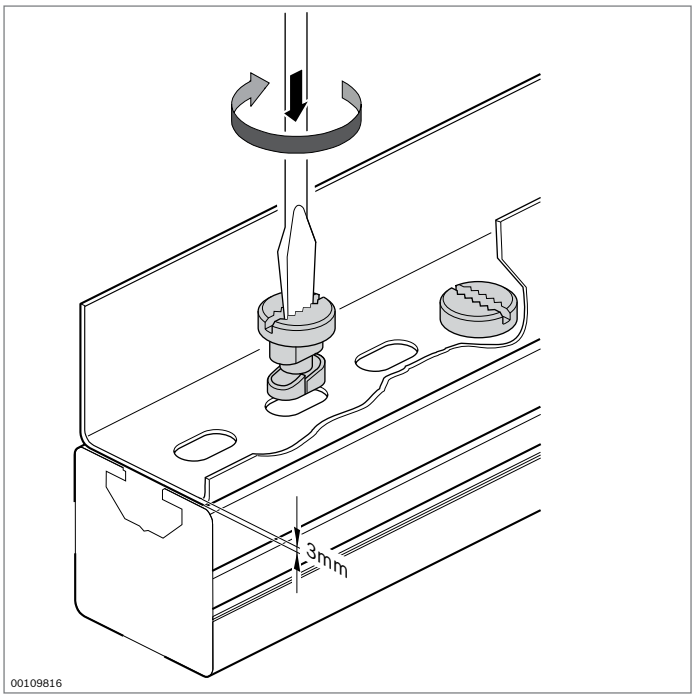
| | |
|---|---|
| Material: | Cable bracket: PP (conductive), black, UL certified<br>Velcro strap: PP, PA (velour), UL certified |
| Scope of delivery: | Incl. Velcro strap, pre-assembled |




- Accessories: Adapter D28L; countersunk screw

| Cable bracket loop flat | | No. |
|---|---|---|
| | 10 | **3 842 559 380** |

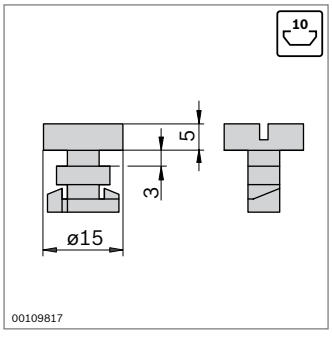
| | |
|---|---|
| Material: | Cable bracket: PP (conductive), black, UL certified<br>Velcro strap: PP, PA (velour), UL certified |
| Scope of delivery: | Incl. Velcro strap, pre-assembled |




## Quick-lock

10

- Quick-lock for fastening standard commercially available cable ducts




| Quick-lock | | No. |
|---|---|---|
| | | 100 **3 842 146 920** |
| Material: | PA; black | |

11

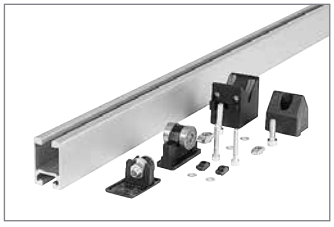
# Elements for manual movement



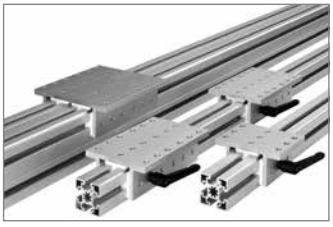
Slide hangers, snap hooks (p. 12-2)



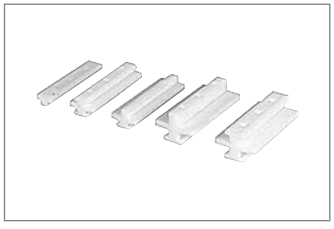
Sliders for panel element (p. 12-3)



Components for sliding door (p. 12-4)



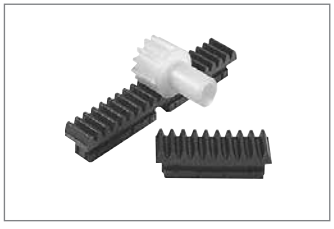
EcoSlide (p. 12-6)



Sliders for profiles (p. 12-13)



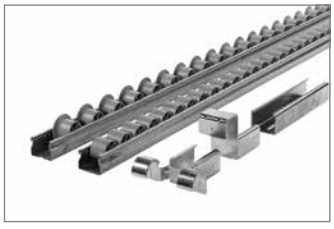
Support wheels (p. 12-17)



Rack, pinion (p. 12-18)



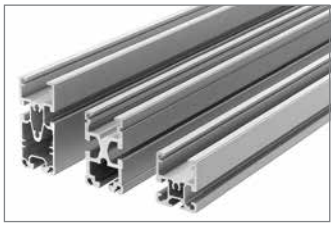
Conveyor track Lean (p. 12-19)



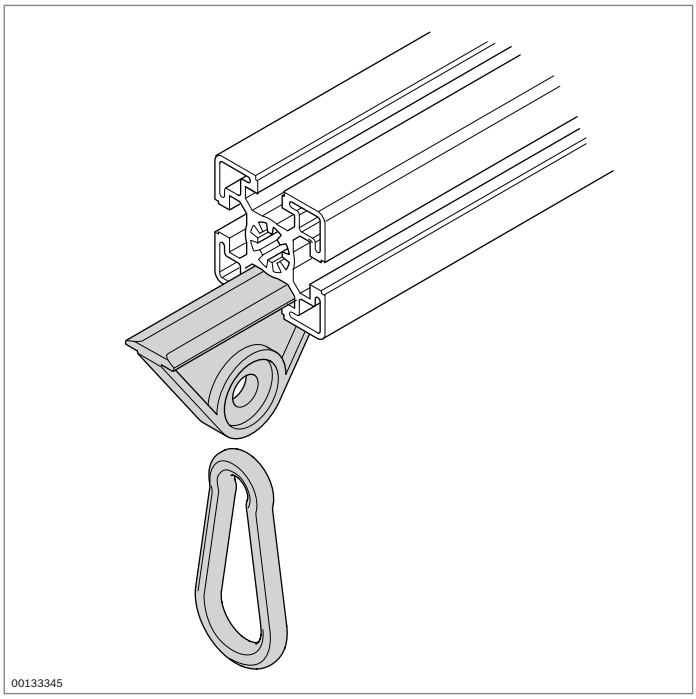
Conveyor track XLean (p. 12-24)



Conveyor track EcoFlow (p. 12-27)



Profiles for installing conveyor media (p. 12-33)




# Slide hanger
# Snap hook

10

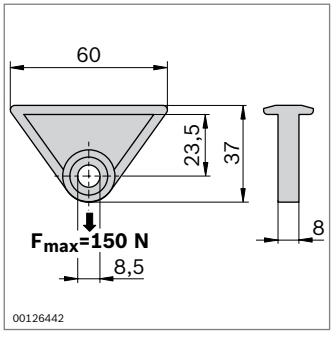
## Slide hanger

- 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

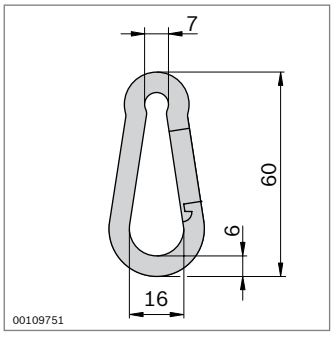
Accessories: Sliding block as a stopper (see p. 3-7)

## Snap hook

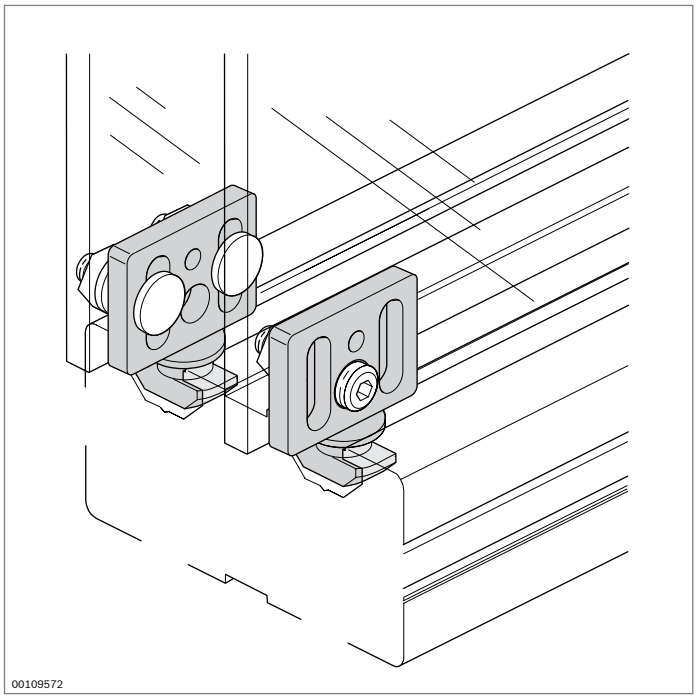
- Snap hook for fastening tools to the slide hanger:
  - Quick and easy to change




| Slide hanger | | No. |
|---|---|---|
| | | **3 842 218 953** |
| Material: | POM; natural | |




| Snap hook | | No. |
|---|---|---|
| | | **0 842 901 309** |
| Material: | Steel; zinc-plated | |



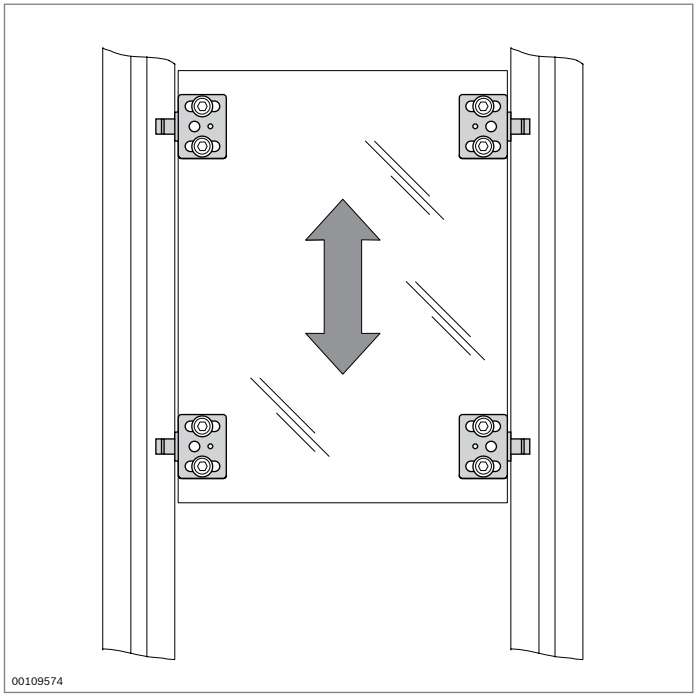

## Slider for panel elements

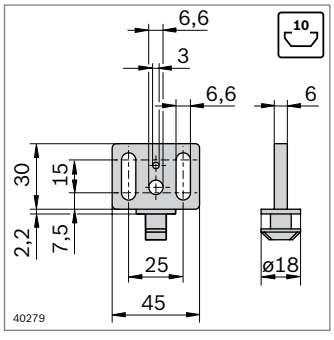
10

- For the construction of sliding and lifting doors
- Good functional reliability
- For any thickness of the panel element or aluminum profile frame

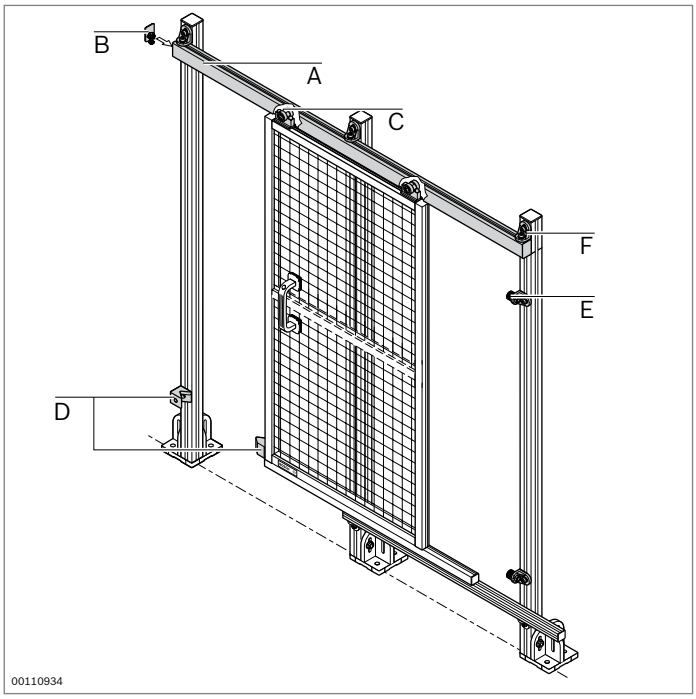
Required accessories:
Screws and nuts/sliding blocks for fastening the panel elements

Accessories, optional:
Counterbalance in the case of lifting doors (p. 9-2)



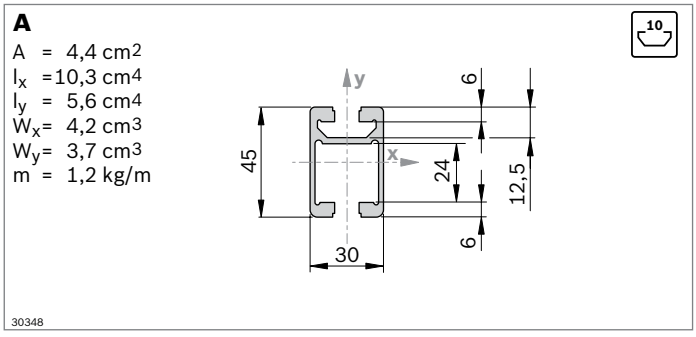

| Slider | | No. |
|---|---|---|
| | 10 | **3 842 564 170** |
| Material: | POM; signal gray RAL 7004 | |




## Components for sliding door

10

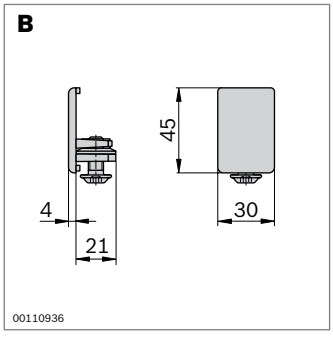
- Components for constructing sliding doors of different dimensions

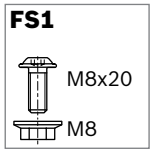



- Profile rail and trolley for movable mounting of parts, e.g. for use as a screwdriver hanger at work tables or for EcoSafe sliding doors (p. 10-34)

| Profile rail 30x45C | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 50 ... 6070 | **3 842 992 946 / L** |
| 1 pc | | 6070 | **3 842 558 312** |
| 20 pcs | | 6070 | **3 842 557 950** |

Material: Aluminum; anodized



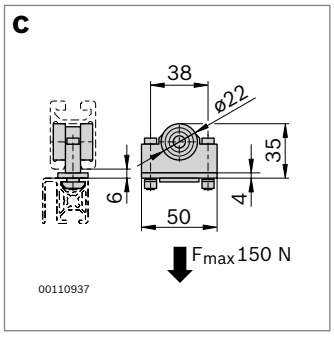




- Profile rail end piece for use for trolley as a cover cap with stop
- With screw protection

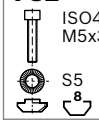
| End piece 30x45C | Color | ESD | | No. | FS |
|---|---|---|---|---|---|
| | Signal gray | | 20 | **3 842 554 710** | FS1 |
| | Black | | 20 | **3 842 554 711** | FS1 |

Material: End piece: PA
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

**C**




**FS2**

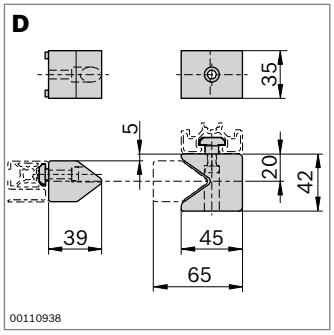



- Trolley with dust-proof ball bearings for smooth sliding motion
- For fastening profiles with a 8 mm slot

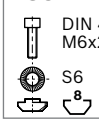
| Trolley | No. | FS |
|---|---|---|
| | **3 842 524 153** | 2xFS2 |

| | |
|---|---|
| Material: | PA; black / steel, zinc-plated<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |

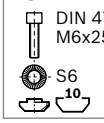
**D**




**FS3**




**FS4**

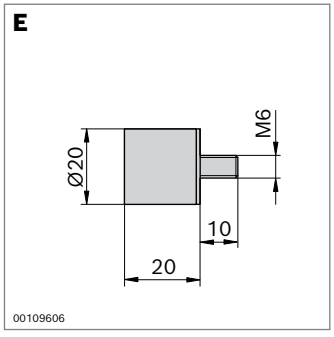



- Stop kit for damped closing of the sliding door

| Stop kit | No. | FS |
|---|---|---|
| | **3 842 524 490** | FS3, FS4 |

| | |
|---|---|
| Material: | PA; black<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |

**E**

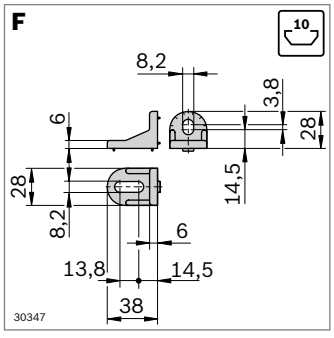



- Bumper for a damped stop

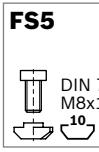
| Bumper | | No. |
|---|---|---|
| | 10 | **3 842 510 462** |

| | |
|---|---|
| Material: | NBR; hardness 55° Shore A |
| Accessories: | Bracket set R28x38 for fastening to strut profiles with 10 mm slot |

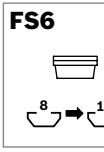
**F**




**FS5**




**FS6**

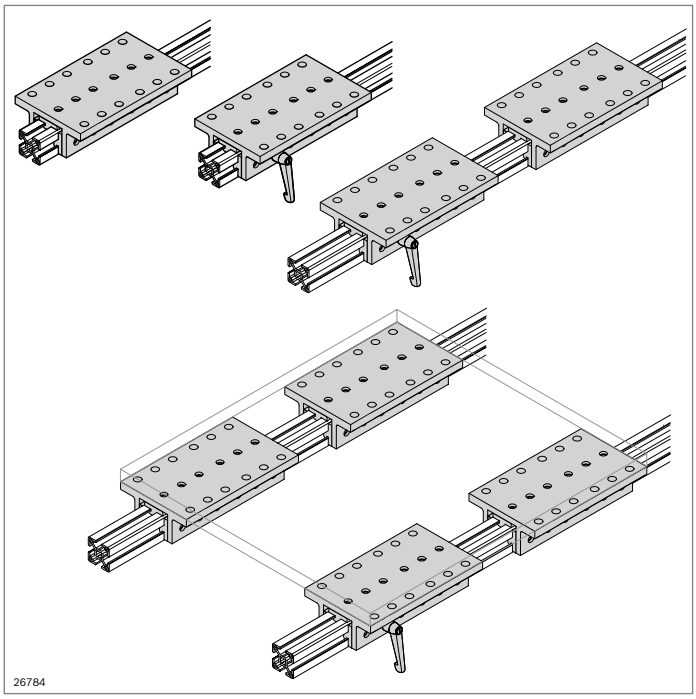



- Bracket for fastening the profile rail to strut profiles with 10 mm slot

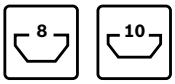
| Bracket | Slot | ESD | No. | FS |
|---|---|---|---|---|
| **R28x38 Set (standard)** | 10 / 10 | | **3 842 521 580** | 2xFS5, 4xFS6 |

| | |
|---|---|
| Material: | Diecast zinc<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |

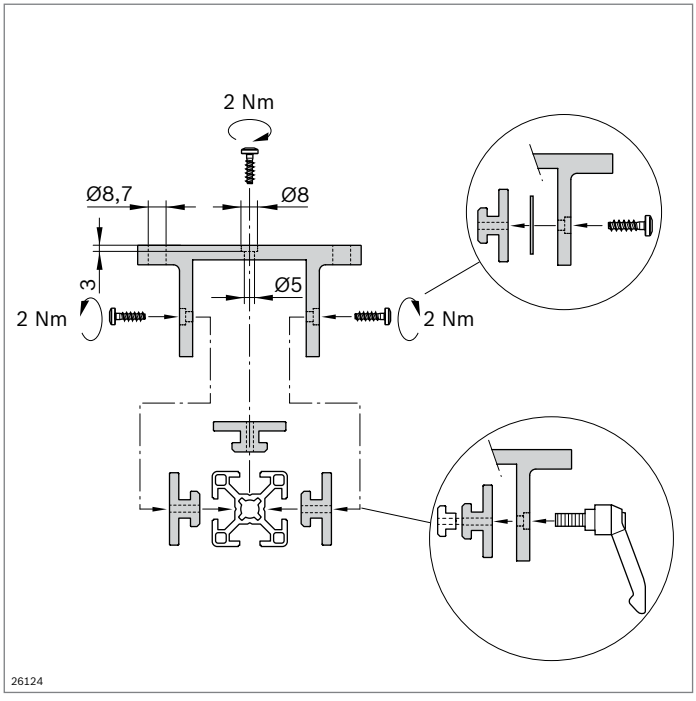
12

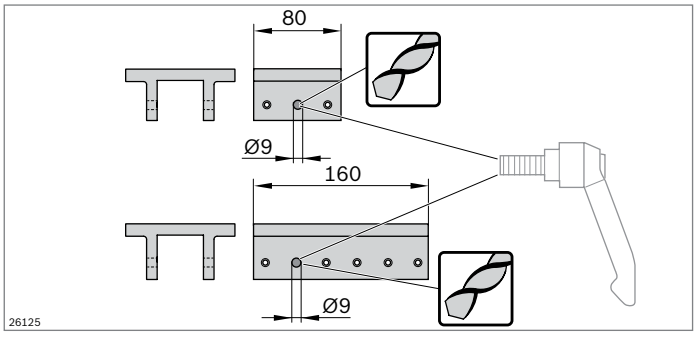



## EcoSlide



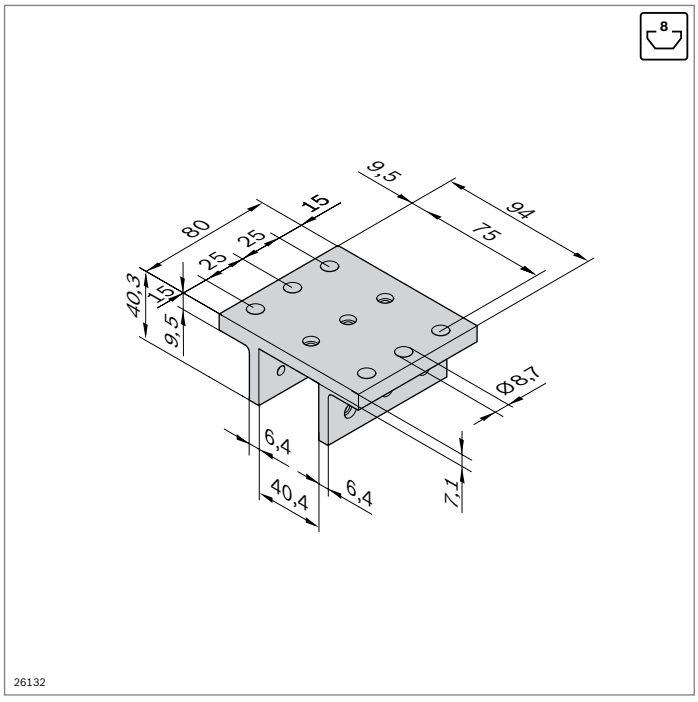

- Economical linear sliding carriage for horizontal applications
- Runs on sliders for maximal load capacity
- Slider with low moisture absorption, suitable for rough application conditions
- Available for profile widths of 30/45/60/90
- Clamping lever (optional) for arresting in any position
- Easy to assemble
- Spacer washer for tolerance adjustment (carriage/profile)




**Machining tip**

To install the clamping lever, the corresponding 9 mm hole must be drilled in the trolley.




| Fmax | Fmax | Mmax | Mmax |
|---|---|---|---|
| 750 N | 325 N | 10 Nm | 150 Nm |

## EcoSlide 30x30x80

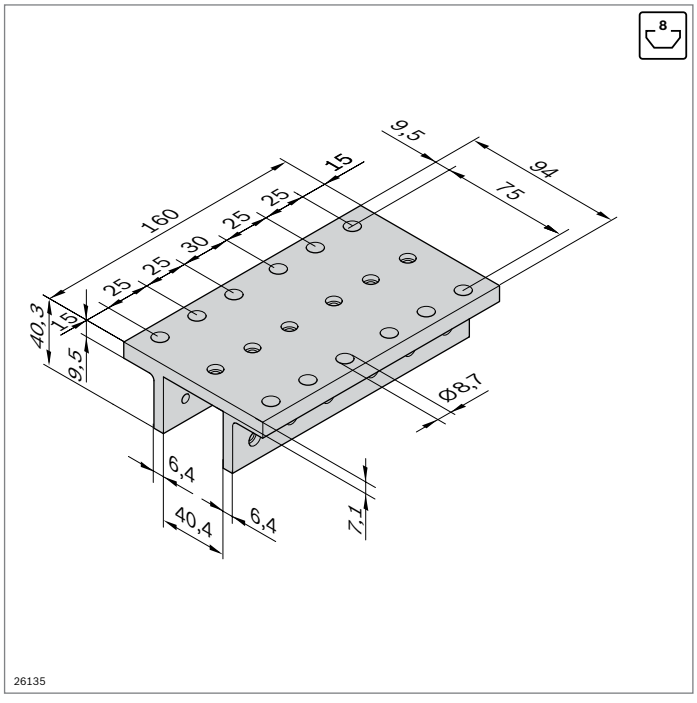
- For use with profile width 30 mm
- Maximum sliding speed: 12 m/min

| Trolley 30x30x80 | | No. |
|---|---|---|
| | 1 | **8 981 535 476** |
| Material: | Aluminum; anodized | |

### Accessories

| | | No. | Pcs | Pcs | Page |
|---|---|---|---|---|---|
| Slider, slot 8 mm flat | 10 | **3 842 523 212** | 3 | 2 | 12-13 |
| Slider, slot 8 mm flat lockable | 1 | **3 842 552 423** | – | 1 | 12-11 |
| Spacer washer Slot 8 mm | 4 | **8 981 535 891** | X[1)] | X[1)] | 12-11 |
| Screw W1451 - 3.5x14 - 10.9 | 10 | **3 842 552 421** | 9 | 8 | 12-12 |
| Clamping lever, 20 mm | 1 | **3 842 516 846** | – | 1 | 4-15 |
| Sliding block Slot 8 mm; M8 | 100 | **3 842 514 931** | – | 1 | 3-7 |

[1)] If required




| Fmax | Fmax | Mmax | Mmax |
|---|---|---|---|
| 1500 N | 750 N | 20 Nm | 200 Nm |

## EcoSlide 30x30x160

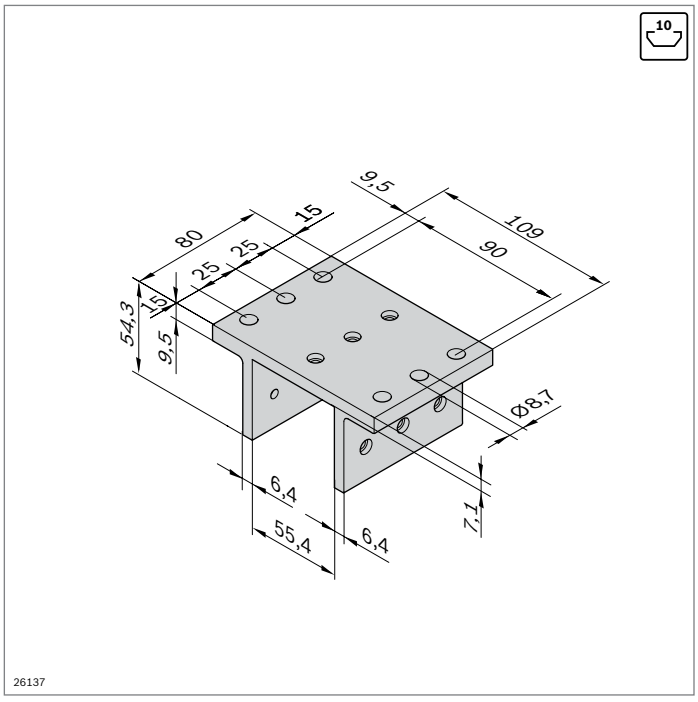
- For use with profile width 30 mm
- Maximum sliding speed: 12 m/min

| Trolley 30x30x160 | | No. |
|---|---|---|
| | 1 | **8 981 535 477** |
| Material: | Aluminum; anodized | |

### Accessories

| | | No. | Pcs | Pcs | Page |
|---|---|---|---|---|---|
| Slider, slot 8 mm flat | 10 | **3 842 523 212** | 6 | 5 | 12-13 |
| Slider, slot 8 mm flat lockable | 1 | **3 842 552 423** | – | 1 | 12-11 |
| Spacer washer Slot 8 mm | 4 | **8 981 535 891** | X[1)] | X[1)] | 12-11 |
| Screw W1451 - 3.5x14 - 10.9 | 10 | **3 842 552 421** | 18 | 17 | 12-12 |
| Clamping lever, 20 mm | 1 | **3 842 516 846** | – | 1 | 4-15 |
| Sliding block Slot 8 mm; M8 | 100 | **3 842 514 931** | – | 1 | 3-7 |

[1)] If required




| Fmax | Fmax | Mmax | Mmax |
|---|---|---|---|
| 1250 N | 625 N | 40 Nm | 150 Nm |

## EcoSlide 45x45x80

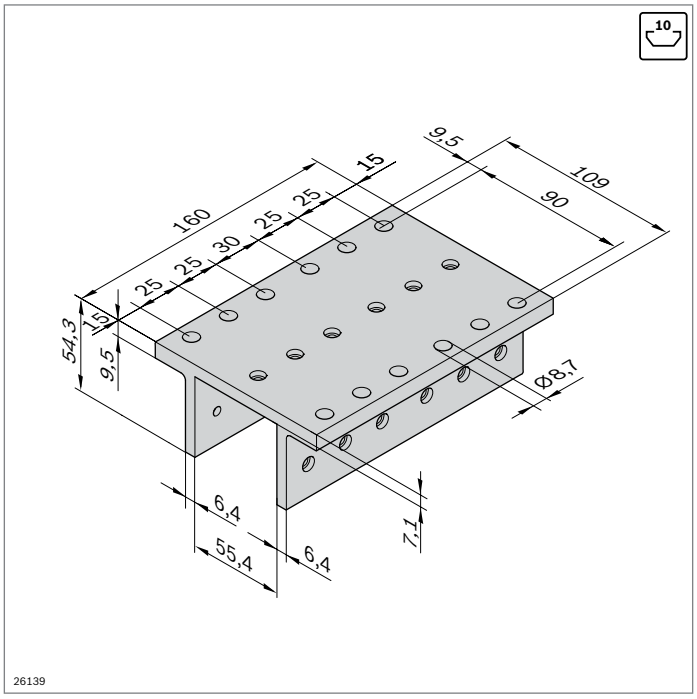
- For use with profile width 45 mm
- Maximum sliding speed: 12 m/min

| Trolley 45x45x80 | | No. |
|---|---|---|
| | 1 | **8 981 535 323** |
| Material: | Aluminum; anodized | |

### Accessories

| | | No. | Pcs | Pcs | Page |
|---|---|---|---|---|---|
| Slider, slot 10 mm flat | 10 | **3 842 530 329** | 3 | 2 | 12-13 |
| Slider, slot 10 mm flat lockable | 1 | **3 842 552 424** | – | 1 | 12-11 |
| Spacer washer Slot 10 mm | 4 | **8 981 535 890** | X[1)] | X[1)] | 12-12 |
| Screw W1452 - 4x18 - 10.9 | 10 | **3 842 552 422** | 9 | 8 | 12-12 |
| Clamping lever, 20 mm | 1 | **3 842 516 846** | – | 1 | 4-15 |
| Sliding block Slot 10 mm, M8 | 100 | **3 842 528 735** | – | 1 | 3-7 |

[1)] If required




| Fmax | Fmax | Mmax | Mmax |
|---|---|---|---|
| 2500 N | 1250 N | 80 Nm | 200 Nm |

## EcoSlide 45x45x160

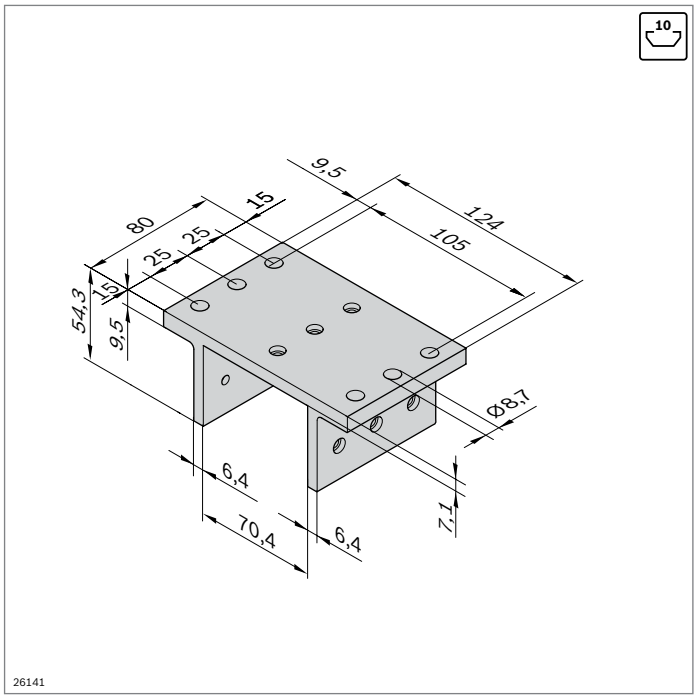
- For use with profile width 45 mm
- Maximum sliding speed: 12 m/min

| Trolley 45x45x160 | | No. |
|---|---|---|
| | 1 | **8 981 535 324** |
| Material: | Aluminum; anodized | |

### Accessories

| | | No. | Pcs | Pcs | Page |
|---|---|---|---|---|---|
| Slider, slot 10 mm flat | 10 | **3 842 530 329** | 6 | 5 | 12-13 |
| Slider, slot 10 mm flat lockable | 1 | **3 842 552 424** | – | 1 | 12-11 |
| Spacer washer Slot 10 mm | 4 | **8 981 535 890** | X[1)] | X[1)] | 12-12 |
| Screw W1452 - 4x18 - 10.9 | 10 | **3 842 552 422** | 18 | 17 | 12-12 |
| Clamping lever, 20 mm | 1 | **3 842 516 846** | – | 1 | 4-15 |
| Sliding block Slot 10 mm, M8 | 100 | **3 842 528 735** | – | 1 | 3-7 |

[1)] If required




| Fmax | Fmax | Mmax | Mmax |
|---|---|---|---|
| 1250 N | 625 N | 40 Nm | 150 Nm |

## EcoSlide 45x60x80

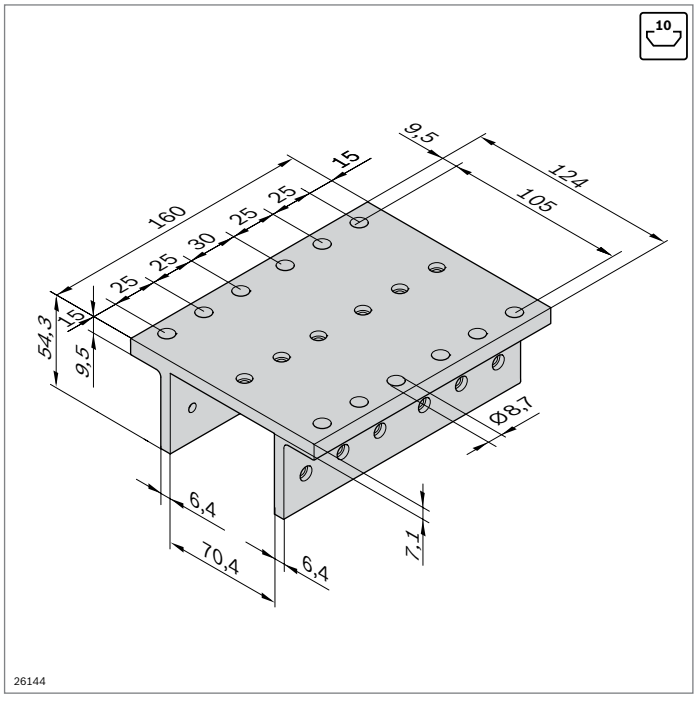
- For use with profile width 60 mm
- Maximum sliding speed: 12 m/min

| Trolley 45x60x80 | | No. |
|---|---|---|
| | 1 | **8 981 535 478** |
| Material: | Aluminum; anodized | |

### Accessories

| | | No. | Pcs | Pcs | Page |
|---|---|---|---|---|---|
| Slider, slot 10 mm flat | 10 | **3 842 530 329** | 3 | 2 | 12-13 |
| Slider, slot 10 mm flat lockable | 1 | **3 842 552 424** | – | 1 | 12-11 |
| Spacer washer Slot 10 mm | 4 | **8 981 535 890** | X[1)] | X[1)] | 12-12 |
| Screw W1452 - 4x18 - 10.9 | 10 | **3 842 552 422** | 9 | 8 | 12-12 |
| Clamping lever, 20 mm | 1 | **3 842 516 846** | – | 1 | 4-15 |
| Sliding block Slot 10 mm, M8 | 100 | **3 842 528 735** | – | 1 | 3-7 |

[1)] If required




| Fmax | Fmax | Mmax | Mmax |
|---|---|---|---|
| 2500 N | 1250 N | 80 Nm | 200 Nm |

## EcoSlide 45x60x160

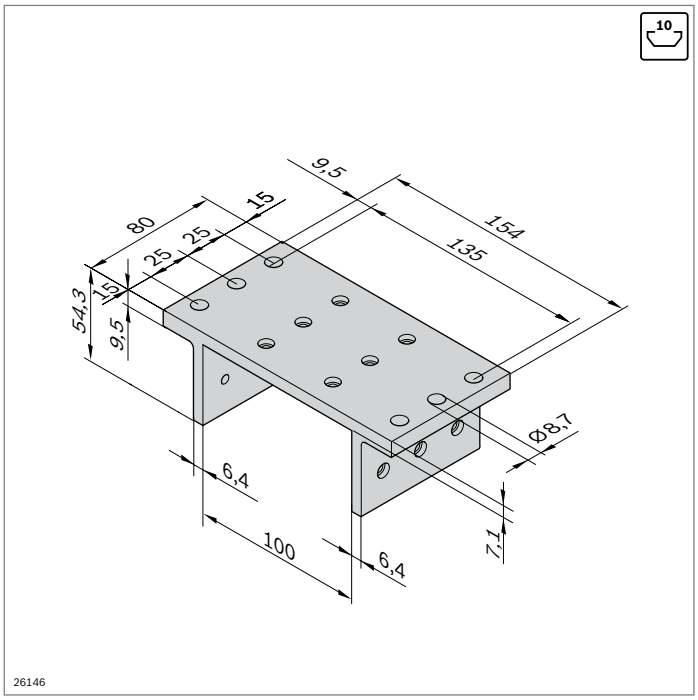
- For use with profile width 60 mm
- Maximum sliding speed: 12 m/min

| Trolley 45x60x160 | | No. |
|---|---|---|
| | 1 | **8 981 535 479** |
| Material: | Aluminum; anodized | |

### Accessories

| | | No. | Pcs | Pcs | Page |
|---|---|---|---|---|---|
| Slider, slot 10 mm flat | 10 | **3 842 530 329** | 6 | 5 | 12-13 |
| Slider, slot 10 mm flat lockable | 1 | **3 842 552 424** | – | 1 | 12-11 |
| Spacer washer Slot 10 mm | 4 | **8 981 535 890** | X[1)] | X[1)] | 12-12 |
| Screw W1452 - 4x18 - 10.9 | 10 | **3 842 552 422** | 18 | 17 | 12-12 |
| Clamping lever, 20 mm | 1 | **3 842 516 846** | – | 1 | 4-15 |
| Sliding block Slot 10 mm, M8 | 100 | **3 842 528 735** | – | 1 | 3-7 |

[1)] If required




| Fmax | Fmax | Mmax | Mmax |
|---|---|---|---|
| 2500 N | 1250 N | 50 Nm | 150 Nm |

## EcoSlide 45x90x80

- For use with profile width 90 mm
- Maximum sliding speed: 12 m/min

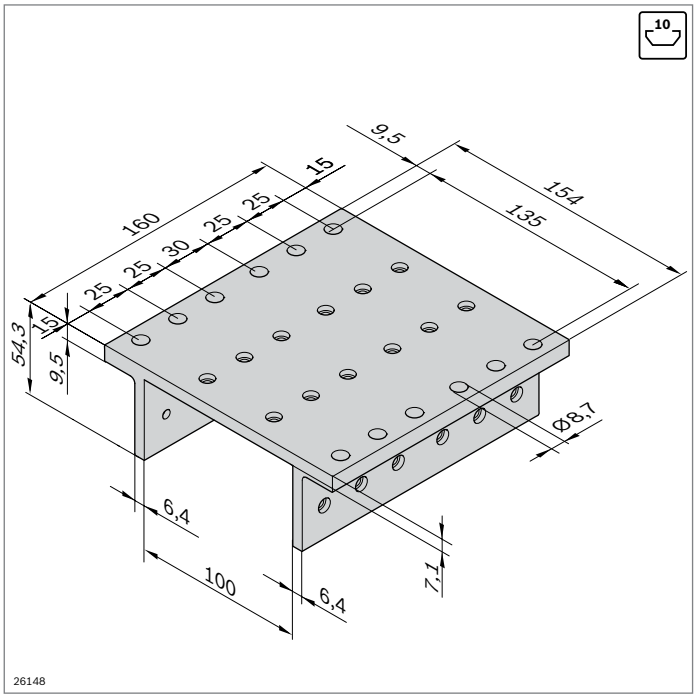
| Trolley 45x90x80 | | No. |
|---|---|---|
| | 1 | **8 981 535 325** |

Material: Aluminum; anodized

### Accessories

| | | No. | Pcs | Pcs | Page |
|---|---|---|---|---|---|
| Slider, slot 10 mm flat | 10 | **3 842 530 329** | 4 | 3 | 12-13 |
| Slider, slot 10 mm flat lockable | 1 | **3 842 552 424** | – | 1 | 12-11 |
| Spacer washer Slot 10 mm | 4 | **8 981 535 890** | X[1)] | X[1)] | 12-12 |
| Screw W1452 - 4x18 - 10.9 | 10 | **3 842 552 422** | 12 | 11 | 12-12 |
| Clamping lever, 20 mm | 1 | **3 842 516 846** | – | 1 | 4-15 |
| Sliding block Slot 10 mm, M8 | 100 | **3 842 528 735** | – | 1 | 3-7 |

[1)] If required




| Fmax | Fmax | Mmax | Mmax |
|---|---|---|---|
| 5000 N | 2500 N | 100 Nm | 200 Nm |

## EcoSlide 45x90x160

- For use with profile width 90 mm
- Maximum sliding speed: 12 m/min

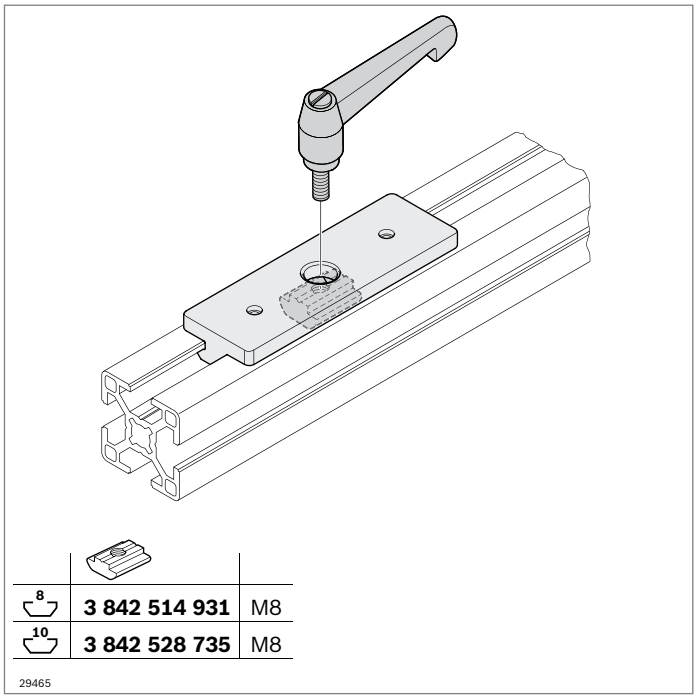
| Trolley 45x90x160 | | No. |
|---|---|---|
| | 1 | **8 981 535 326** |

Material: Aluminum; anodized

### Accessories

| | | No. | Pcs | Pcs | Page |
|---|---|---|---|---|---|
| Slider, slot 10 mm flat | 10 | **3 842 530 329** | 8 | 7 | 12-13 |
| Slider, slot 10 mm flat lockable | 1 | **3 842 552 424** | – | 1 | 12-11 |
| Spacer washer Slot 10 mm | 4 | **8 981 535 890** | X[1)] | X[1)] | 12-12 |
| Screw W1452 - 4x18 - 10.9 | 10 | **3 842 552 422** | 24 | 23 | 12-12 |
| Clamping lever, 20 mm | 1 | **3 842 516 846** | – | 1 | 4-15 |
| Sliding block Slot 10 mm, M8 | 100 | **3 842 528 735** | – | 1 | 3-7 |

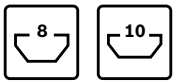
[1)] If required



| | | |
|---|---|---|
| 8 | **3 842 514 931** | M8 |
| 10 | **3 842 528 735** | M8 |

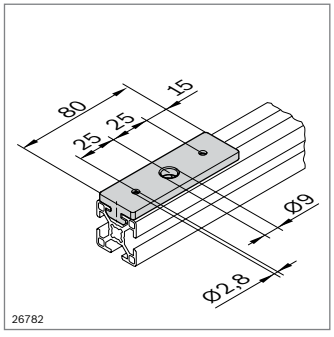
29465

## Slider, flat lockable

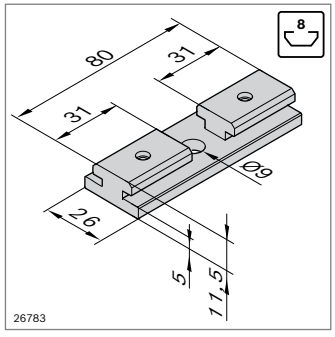



- Suitable for clamping using a sliding block and a clamping lever
- For constructing low-wear guides

Accessories:
- Sliding blocks (p. 3-7)
- Clamping lever (p. 4-15)



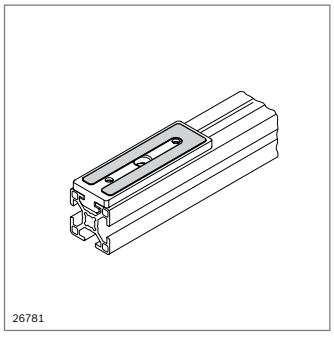

26782



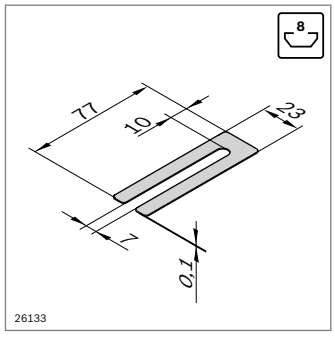

26783

| Slider, flat lockable | Slot | | No. |
|---|---|---|---|
| | 8 | 1 | **3 842 552 423** |

| | |
|---|---|
| Material: | POM; natural |
| Accessories: | Sliding block, T-nut, slot 8 (M8), 3 842 514 931, p. 3-7 |



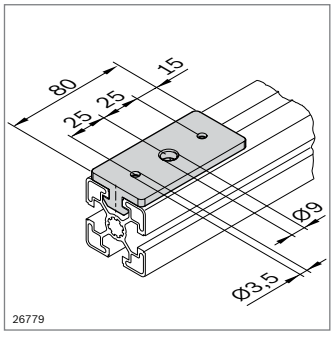
26781



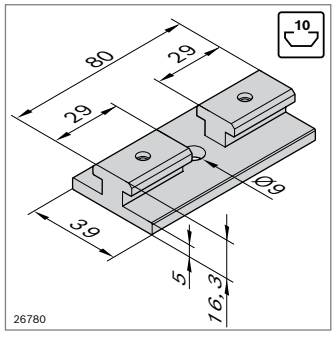

26133

| Spacer washer | Slot | | No. |
|---|---|---|---|
| 77x23 | 8 | 4 | **8 981 535 891** |

| | |
|---|---|
| Material: | Steel; plain |



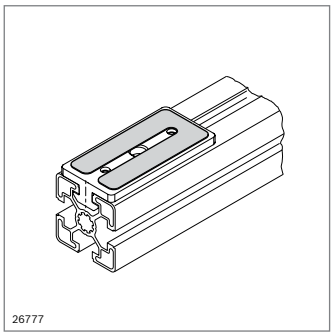

26779

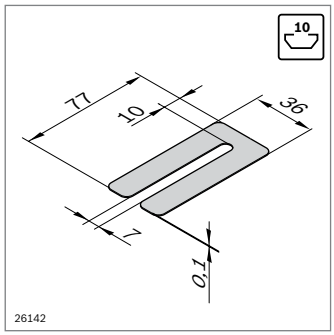



26780

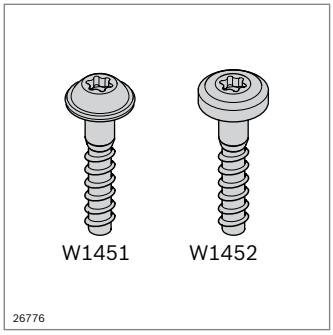
| Slider, flat lockable | Slot | | No. |
|---|---|---|---|
| | 10 | 1 | **3 842 552 424** |

| | |
|---|---|
| Material: | POM; natural |
| Accessories: | Sliding block, T-nut, slot 10 (M8), 3 842 528 735, p. 3-7 |

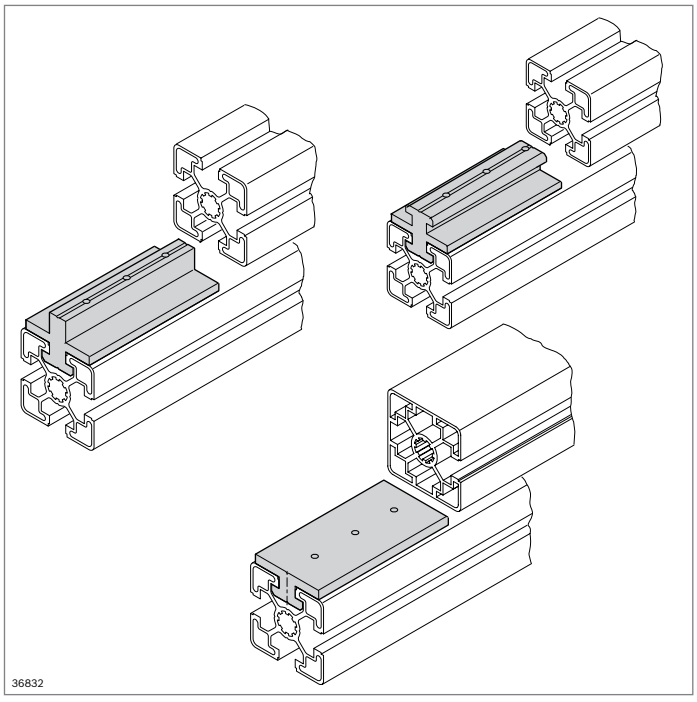



| Spacer washer | Slot | | No. |
|---|---|---|---|
| 77x36 | 10 | 4 | **8 981 535 890** |
| Material: Steel; plain | | | |




| Plastic self-tapping screw | Slot | | No. |
|---|---|---|---|
| W1451 - 3.5x14 - 10.9 | 8 | 10 | **3 842 552 421** |
| W1452 - 4x18 - 10.9 | 10 | 10 | **3 842 552 422** |
| Material: Steel; zinc-plated | | | |



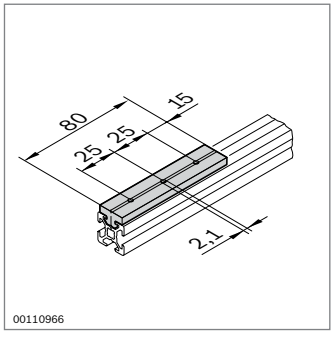

## Slider for profiles

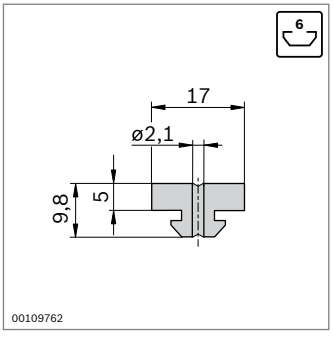



### Slider

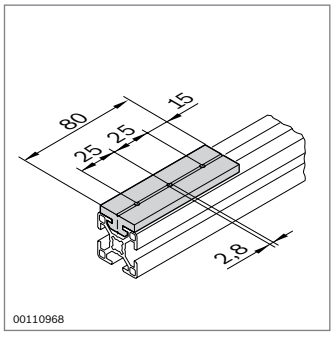
- For the construction of low-wear guides, e.g. for manual sliding and sliding and lifting doors, as well as drawer slides

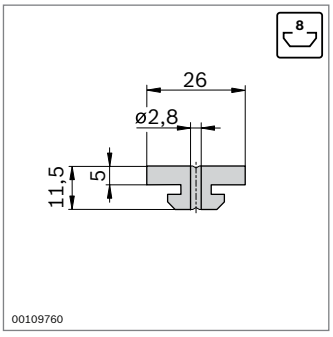
Accessories, optional:
Self-tapping screws for fastening the slider in a profile slot



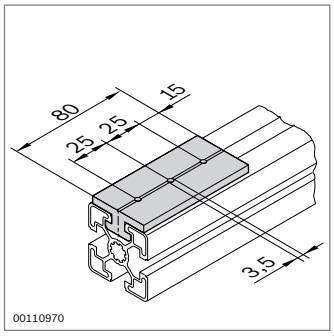



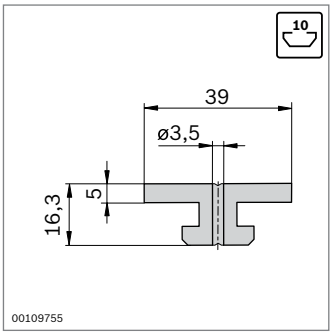

| Slider, flat | | No. |
|---|---|---|
| | 10 | **3 842 523 213** |
| Material: | POM; natural | |



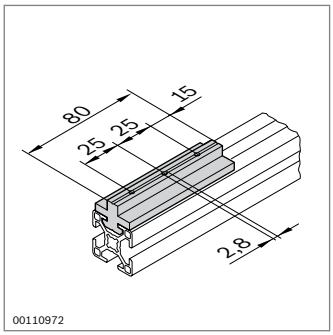



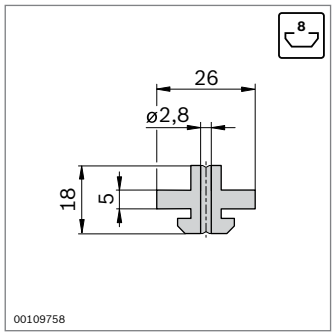

| Slider, flat | | No. |
|---|---|---|
| | 10 | **3 842 523 212** |
| Material: | POM; natural | |



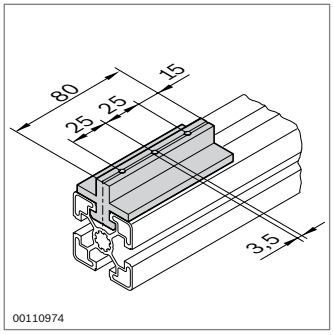



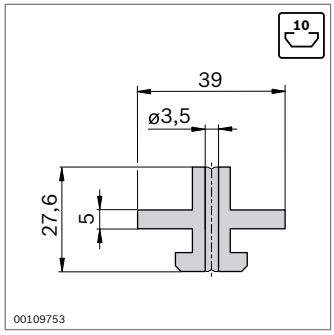

| Slider, flat | | No. |
|---|---|---|
| | 10 | **3 842 530 329** |
| Material: | POM; natural | |



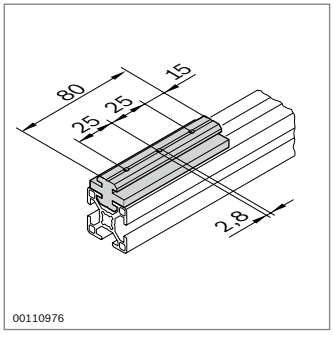



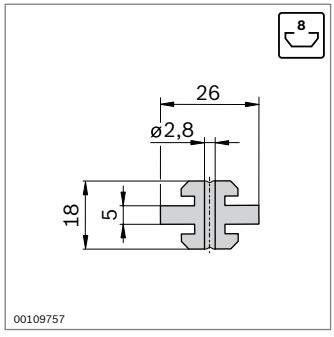

| Slider, center | | | No. |
|---|---|---|---|
| | | 10 | **3 842 523 210** |
| Material: | POM; natural | | |



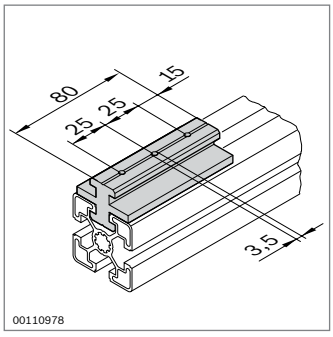



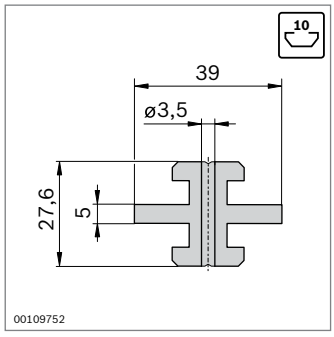

| Slider, center | | | No. |
|---|---|---|---|
| | | 10 | **3 842 523 206** |
| Material: | POM; natural | | |



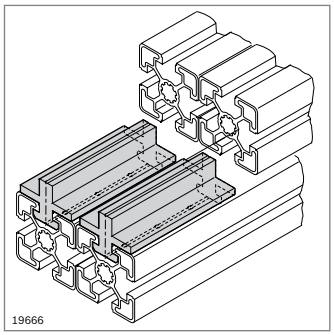




| Slider, center | | | No. |
|---|---|---|---|
| | | 10 | **3 842 523 209** |
| Material: | POM; natural | | |



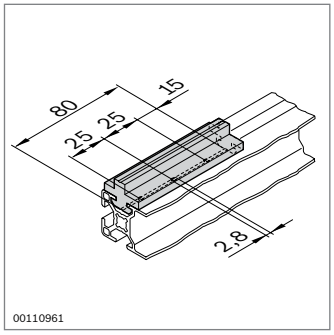



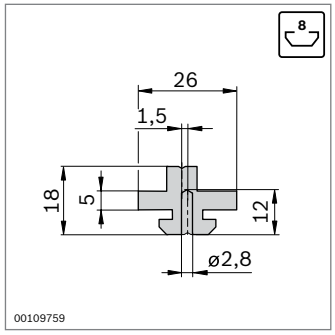

| Slider, center | | | No. |
|---|---|---|---|
| | | 10 | **3 842 523 205** |
| Material: | POM; natural | | |



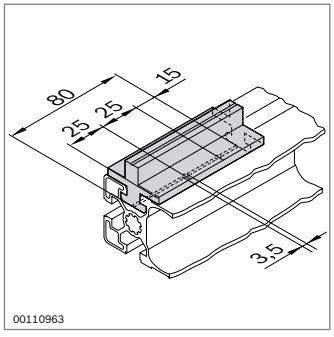

## Offset sliders

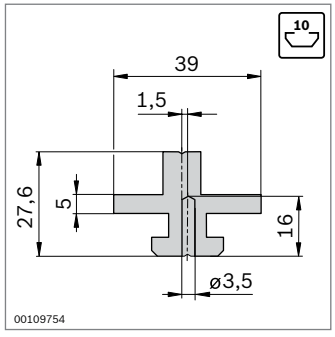
- For constructing multiple sliding doors



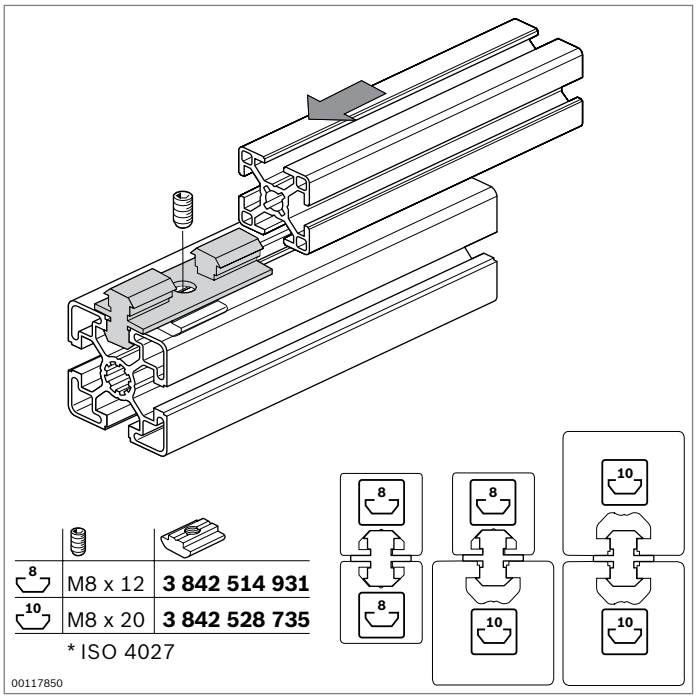




| Slider, offset | | No. |
|---|---|---|
| | 10 | **3 842 523 211** |
| Material: | POM; natural | |

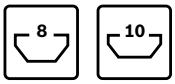



| Slider, offset | | No. |
|---|---|---|
| | 10 | **3 842 523 207** |
| Material: | POM; natural | |

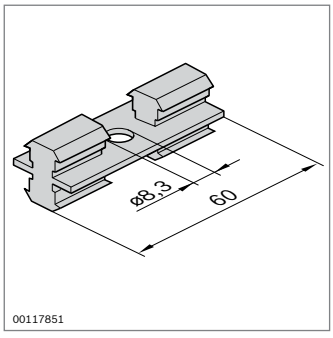


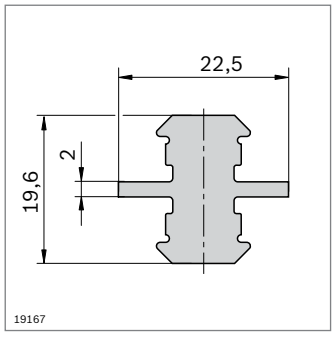

## Multi-slider



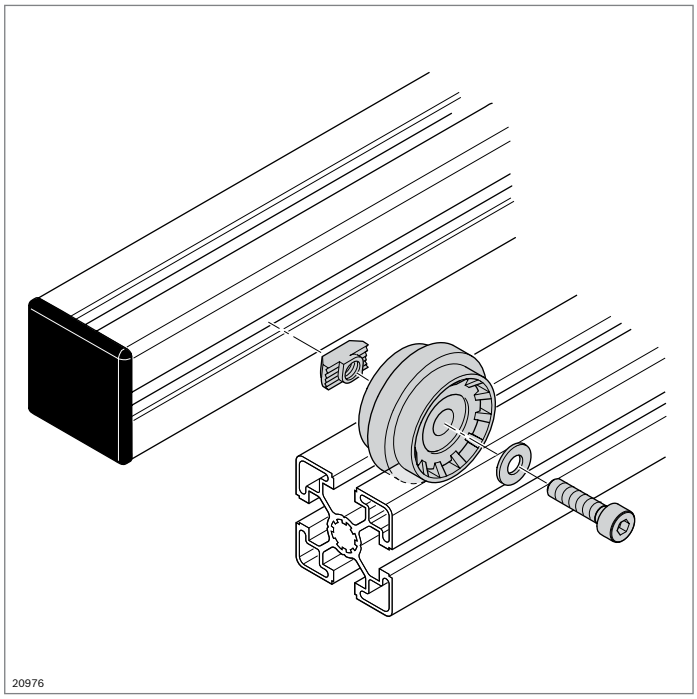

- Multi-slider for constructing low-wear guides
- Suitable for all profiles with 8 mm and 10 mm slot widths
- Combination of profiles with different slot widths possible

Accessories:
Headless setscrew (ISO 4027) and sliding block (p. 3-7) for fastening the slider in the profile slot



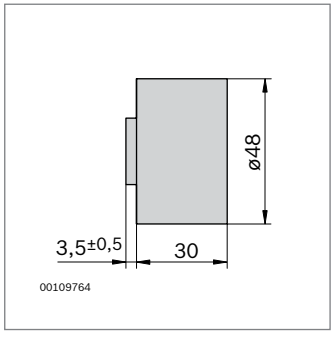



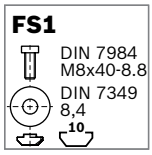

| Multi-slider 8/10 | | | No. |
|---|---|---|---|
| | | 10 | **3 842 513 517** |
| Material: | POM; natural | | |

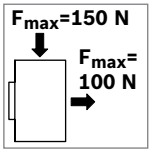



## Support wheels

- 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

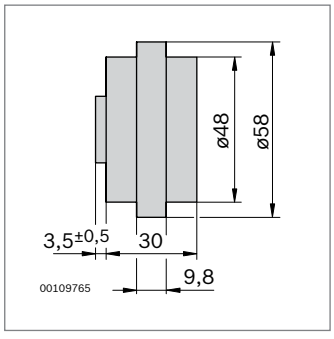


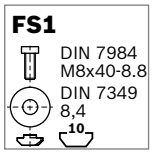



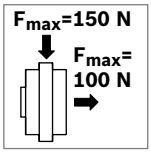




| Support wheel | ESD | | No. | FS |
|---|---|---|---|---|
| | ESD | 10 | **3 842 218 942** | FS1 |

Material: PA; black
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

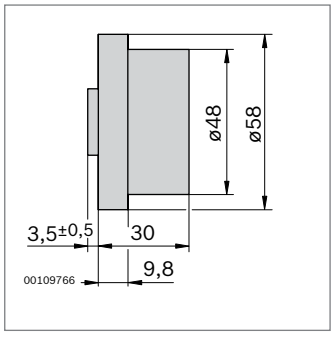


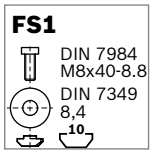



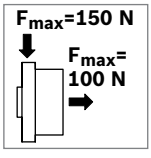




| Support wheels with center rim | ESD | | No. | FS |
|---|---|---|---|---|
| | ESD | 10 | **3 842 218 940** | FS1 |

Material: PA; black
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

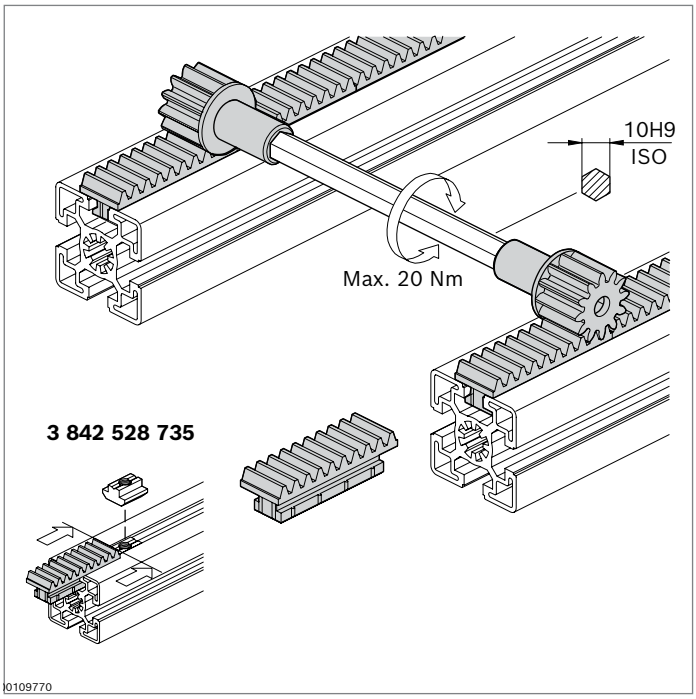



| Support wheels with side rim | ESD | | No. | FS |
|---|---|---|---|---|
| | ESD | 10 | **3 842 218 941** | FS1 |

Material: PA; black
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)



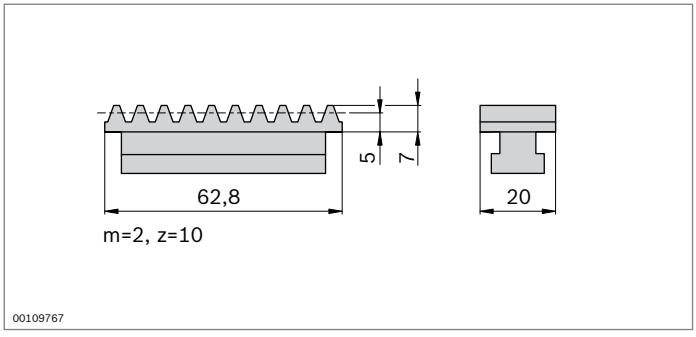

# Rack
# Pinion

10

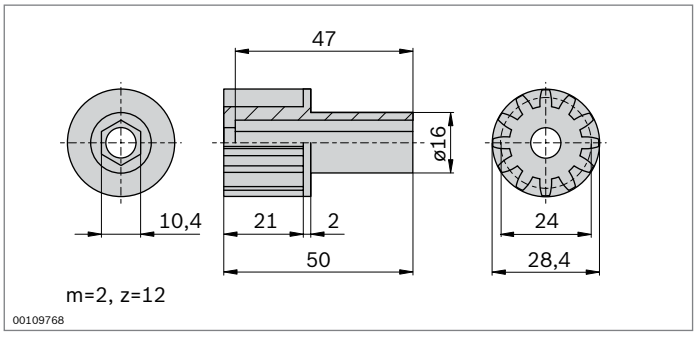
- For constructing synchronous shafts to prevent tilting in the case of large guide widths

Required accessories:

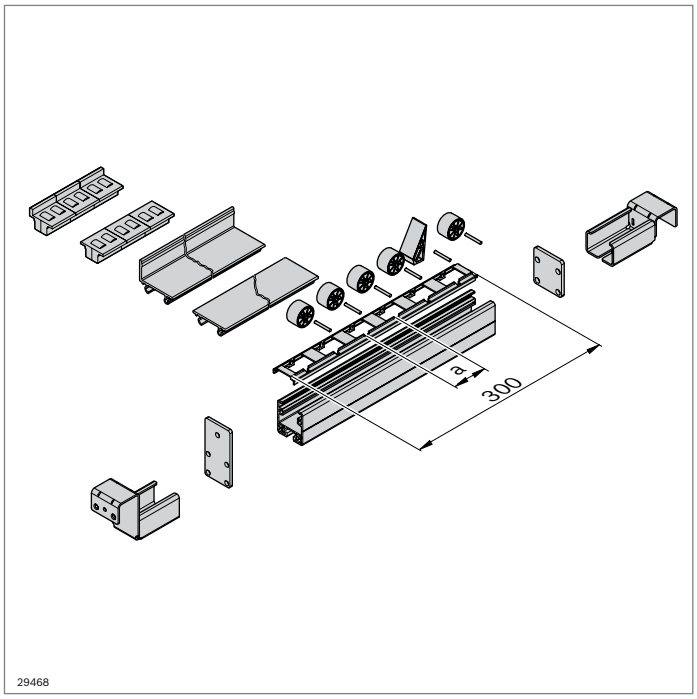
- Standard commercially available hexagonal shaft 10H9
- Sliding block for fixing the rack in the slot (p. 3-7)




| Rack | | | No. |
|---|---|---|---|
| | | 10 | **3 842 501 578** |
| Material: | PA; black | | |




| Pinion | | No. |
|---|---|---|
| | | **3 842 501 576** |
| Material: | POM; white | |



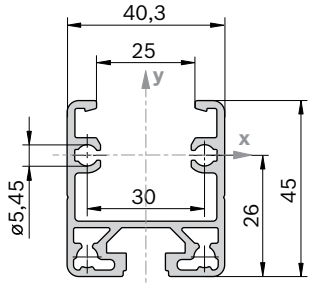

## Elements for the construction of conveyor track Lean

- 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**

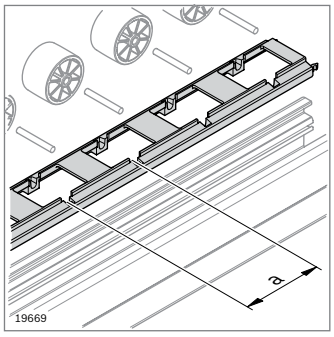
A = 4,4 cm²
$I_x$ = 10,4 cm⁴
$I_y$ = 8,3 cm⁴
$W_x$ = 4,6 cm³
$W_y$ = 4,1 cm³
m = 1,2 kg/m




- U-profile with 10 mm slot

| U-profile | | L (mm) | ESD | No. |
|---|---|---|---|---|
| 1 pc | | 30 ... 6070 | | **3 842 993 316 / L** |
| 1 pc | | 6070 | | **3 842 564 223** |
| 20 pcs | | 6070 | | **3 842 535 115** |
| 1 pc | | 30 ... 6070 | ESD | **3 842 995 027 / L** |
| 20 pcs | | 6070 | ESD | **3 842 541 814** |

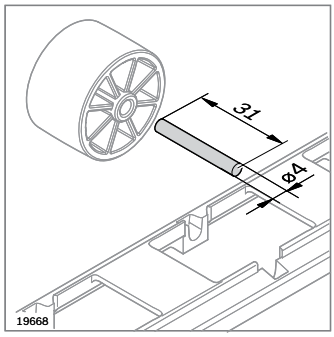
Material: U-profile: Aluminum, anodized
U-profile ESD: Aluminum; untreated




- Roller carrier for rollers D32 and D32SK (p. 12-20)

| Roller carrier | a (mm) | ESD | | No. |
|---|---|---|---|---|
| **D32/37.5** | 37.5 | | 20 | **3 842 537 944** |
| | | ESD | 20 | **3 842 537 945** |
| **D32/50** | 50 | | 20 | **3 842 532 887** |
| | | ESD | 20 | **3 842 538 094** |
| **D 32SK/50** | 50 | | 20 | **3 842 532 886** |
| | | ESD | 20 | **3 842 537 947** |

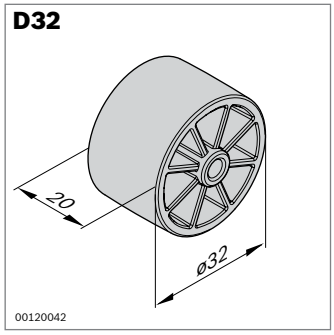
Material: ABS

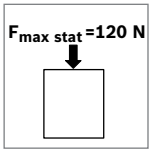



▶ Steel axle for rollers D32, D32SK

| Steel axle | ESD | | No. |
|---|---|---|---|
| | | 100 | **3 842 532 862** |

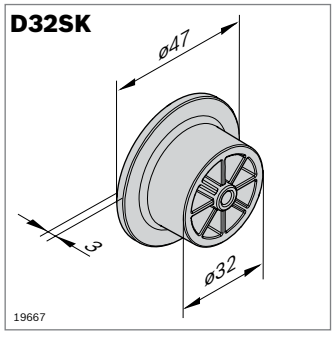
Material: Steel; stainless

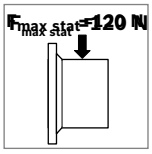



| Roller | Color | ESD | | No. |
|---|---|---|---|---|
| **D32** | Black | | 100 | **3 842 532 865** |
| | | | 100 | **3 842 537 961** |
| | Red | | 100 | **3 842 532 866** |
| | | | 100 | **3 842 537 960** |
| | Yellow | | 100 | **3 842 532 870** |
| | | | 100 | **3 842 537 959** |
| | Green | | 100 | **3 842 532 752** |
| | | | 100 | **3 842 537 958** |

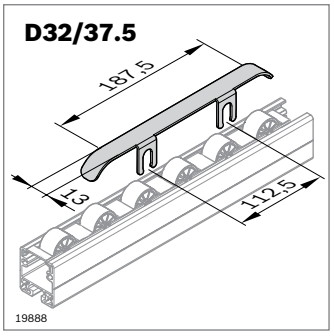
Material: PE; colored / ESD made of PA, colored

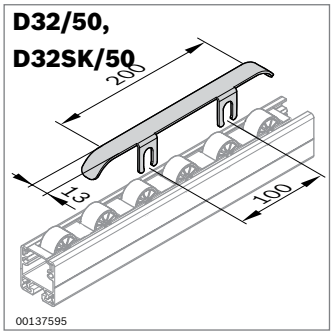



| Roller | Color | ESD | | No. |
|---|---|---|---|---|
| **D32SK** | Black | | 100 | **3 842 532 867** |
| | | | 100 | **3 842 537 965** |
| | Red | | 100 | **3 842 532 883** |
| | | | 100 | **3 842 537 964** |
| | Yellow | | 100 | **3 842 532 884** |
| | | | 100 | **3 842 537 963** |
| | Green | | 100 | **3 842 532 880** |
| | | | 100 | **3 842 537 962** |

Material: PE; colored / ESD made of PA, colored

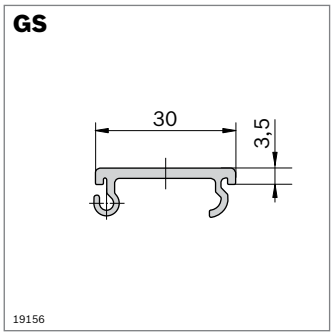


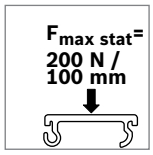




| Brake | ESD | | No. |
|---|---|---|---|
| **D32/37.5** | | 20 | **3 842 537 948** |
| **D32/50, D32SK/50** | | 20 | **3 842 532 881** |

Material: Steel; zinc-plated

**GS**

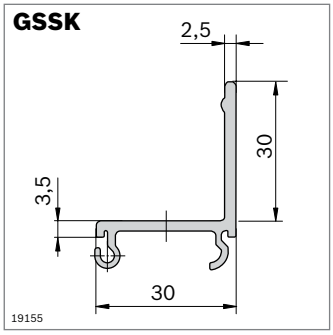


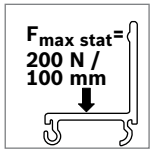




- Slide rail GS for constructing conveyor tracks with large gradients
- Slide rail for use with heavy containers

| Slide rail | Color | L (mm) | ESD | | No. |
|---|---|---|---|---|---|
| **GS** | Dusty gray | 3000 | | 20 | **3 842 535 124** |
| | Black | 3000 | ⚠ | 20 | **3 842 537 803** |
| Material: | PVC | | | | |

**GSSK**

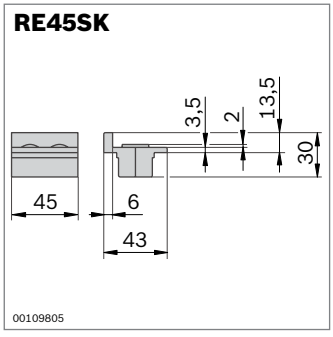


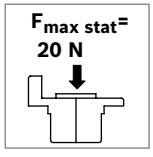




- Slide rail with lateral guide GSSK for constructing conveyor tracks with large gradients
- Slide rail for use with heavy containers

| Slide rail | Color | L (mm) | ESD | | No. |
|---|---|---|---|---|---|
| **GSSK** | Dusty gray | 3000 | | 20 | **3 842 537 806** |
| | Black | 3000 | ⚠ | 20 | **3 842 537 807** |
| Material: | PVC | | | | |

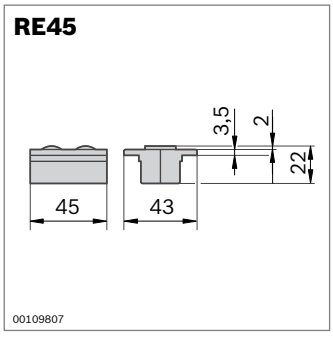
**RE45SK**

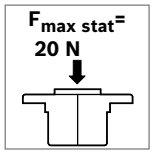



| Roller element | Color | ESD | | No. |
|---|---|---|---|---|
| **RE45SK** | Signal gray | | 100 | **3 842 554 748** |
| | Black | ⚠ | 100 | **3 842 538 065** |
| Material: | PA | | | |

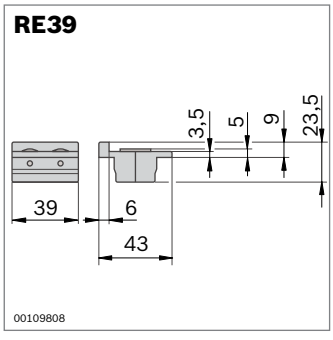
**RE45**

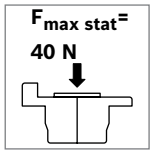



| Roller element | Color | ESD | | No. |
|---|---|---|---|---|
| **RE45** | Signal gray | | 100 | **3 842 554 746** |
| | Black | ⚠ | 100 | **3 842 538 064** |
| Material: | PA | | | |

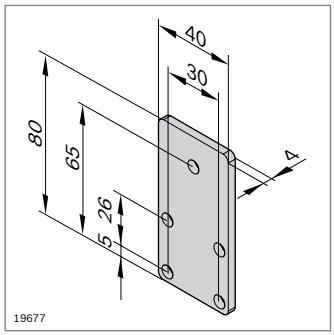
**RE39**




| Roller element | Color | ESD | | No. |
|---|---|---|---|---|
| **RE39** | Black | | 10 | **3 842 520 000** |
| | Black | ⚠ | 10 | **3 842 538 245** |
| Material: | PA<br>Axis: Steel | | | |

12

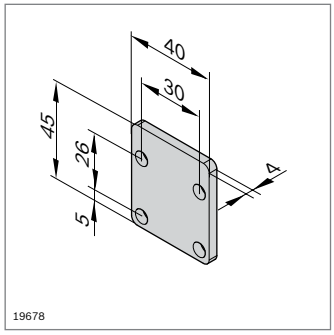



**FS1**

S6x16-T25

| Stop plate with stop | ESD | | No. | FS |
|---|---|---|---|---|
| **40x80** | | 20 | **3 842 535 121** | 4xFS1 |

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

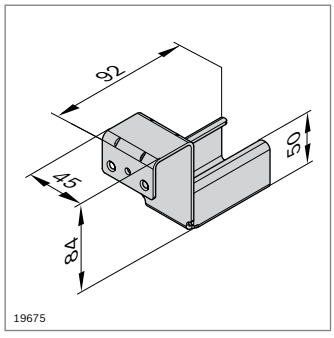



**FS1**

S6x16-T25

| Stop plate without stop | ESD | | No. | FS |
|---|---|---|---|---|
| **40x45** | | 20 | **3 842 535 122** | 4xFS1 |

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



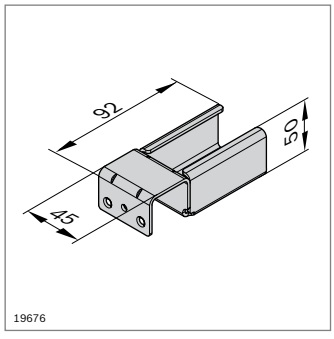

**FS2**

M8x12

10

| Rail holder with stop | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 537 660** | FS2 |

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



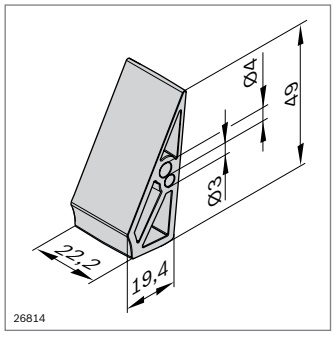

**FS2**

M8x12

10

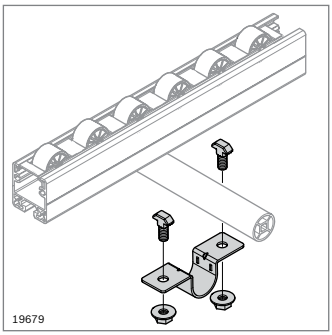
| Rail holder without stop | ESD | | No. | FS |
|---|---|---|---|---|
| | | 20 | **3 842 537 661** | FS2 |

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

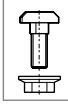



| Stopper XLean/Lean | ESD | | No. |
|---|---|---|---|
| | | 10 | **3 842 552 151** |

Material: PP

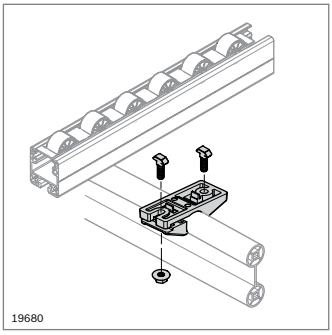



**FS3**

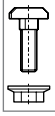



| Tube clamp D28 | | No. | FS |
|---|---|---|---|
| | 20 | **3 842 535 364** | 2xFS3 |

| | |
|---|---|
| Material: | Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |

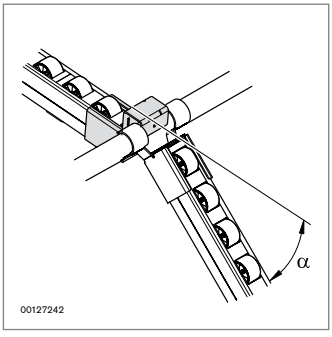



**FS4**

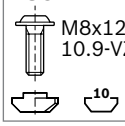



| Holder for strut profile D28x55 | | No. | FS |
|---|---|---|---|
| | 20 | **3 842 537 720** | 2xFS4 |

| | |
|---|---|
| Material: | Diecast aluminum<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |



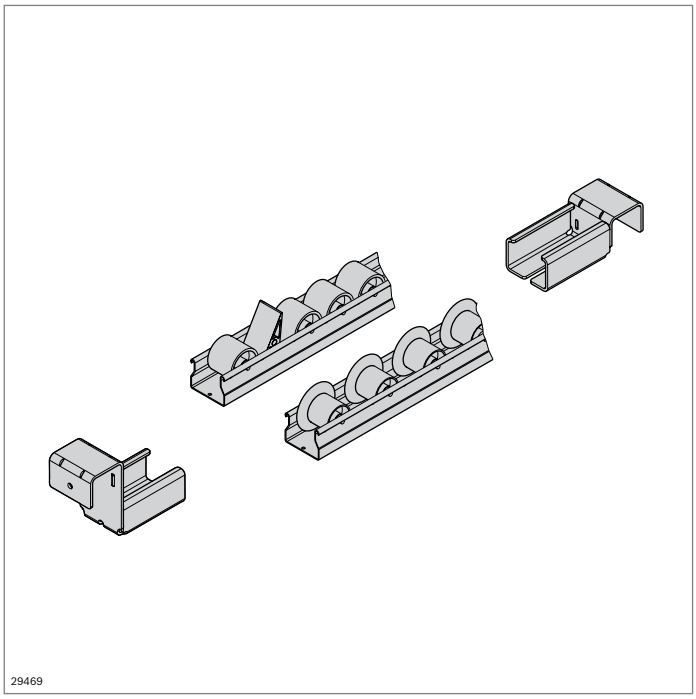

**FS5**




- Flexible bridge with maximum tilt ($\alpha_{max}$) from horizontal:
  - With round tube D28 (p. 2-76): $\alpha_{max}$ = 40°
  - With strut profile D28x55 (p 2-77): $\alpha_{max}$ = 30°

| Flexible bridge | | No. | FS |
|---|---|---|---|
| | 20 | **3 842 537 951** | FS5 |

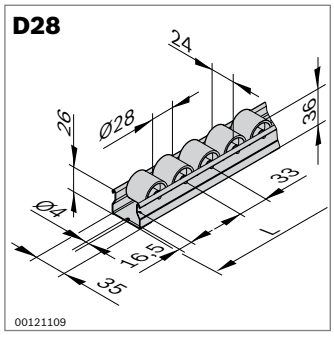
| | |
|---|---|
| Material: | Steel; zinc-plated<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |




## 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)

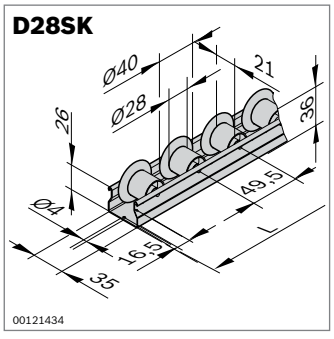


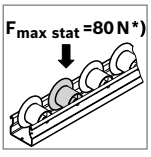




* per roller

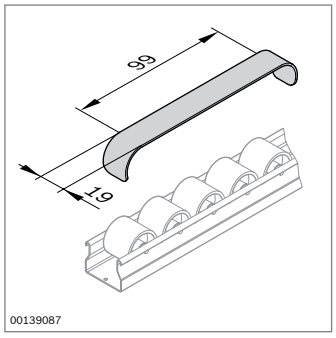
| Roller section | Color | L (mm) | ESD | | No. |
|---|---|---|---|---|---|
| **D28** | Gray | 100 ... 4500 | | 1 | **3 842 993 321 / L** |
| | | 4500 | | 50 | **3 842 537 776** |
| | Black | 100 ... 4500 | | 1 | **3 842 993 431 / L** |
| | | 4500 | | 50 | **3 842 537 778** |
| Material: | Rail: Steel, zinc-plated<br>Roller: PP | | | | |



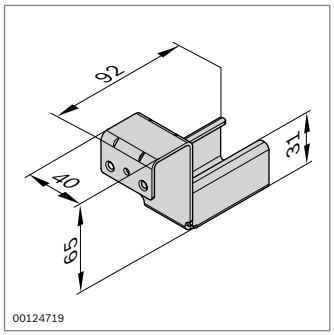




* per roller

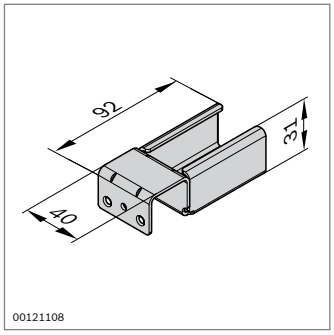
| Roller section | Color | L (mm) | ESD | | No. |
|---|---|---|---|---|---|
| **D28SK** | Gray | 100 ... 4500 | | 1 | **3 842 993 322 / L** |
| | | 4500 | | 50 | **3 842 537 777** |
| | Black | 100 ... 4500 | | 1 | **3 842 993 432 / L** |
| | | 4500 | | 50 | **3 842 537 779** |
| Material: | Rail: Steel, zinc-plated<br>Roller: PP | | | | |



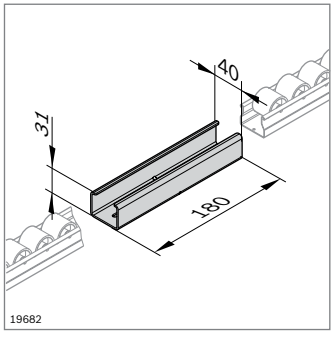

| Brake | | No. |
|---|---|---|
| | 20 | **3 842 532 871** |
| Material: | Strip steel; galvanized | |



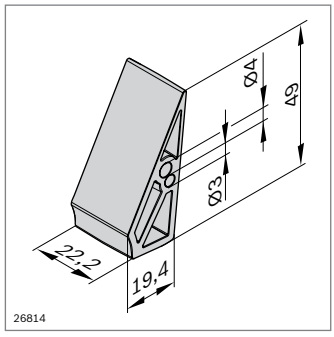

| Rail holder with stop | | | No. |
|---|---|---|---|
| | | 20 | **3 842 538 372** |
| Material: | Steel; zinc-plated | | |



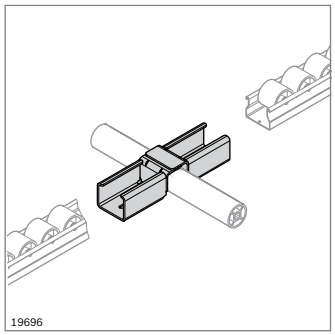

| Rail holder without stop | | | No. |
|---|---|---|---|
| | | 20 | **3 842 537 687** |
| Material: | Steel; zinc-plated | | |



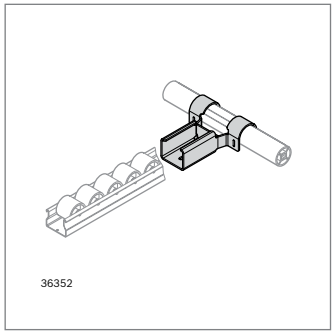

| Section link | | | No. |
|---|---|---|---|
| | | 20 | **3 842 536 722** |
| Material: | Steel; zinc-plated | | |

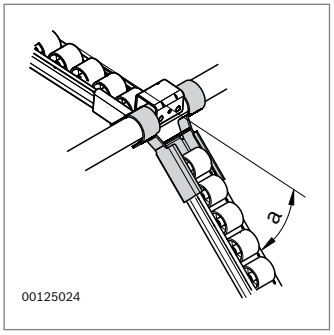



| Stopper XLean/Lean | | ESD | | No. |
|---|---|---|---|---|
| | | ✓ | 10 | **3 842 552 151** |
| Material: | PP | | | |



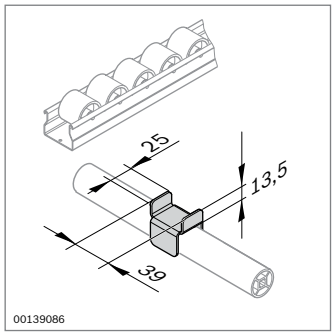

| Bridge | | | No. |
|---|---|---|---|
| | | 20 | **3 842 536 724** |
| Material: | Steel; zinc-plated | | |



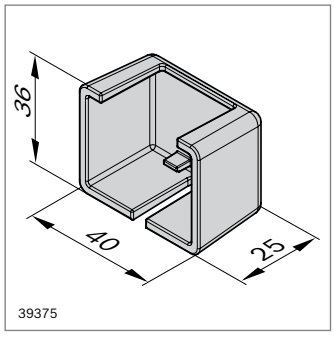




- Flexible bridge with maximum tilt ($\alpha_{max}$) from horizontal:
  - With round tube D28 (p. 2-76): $\alpha_{max}$ = 40°
  - With strut profile D28x55 (p 2-77): $\alpha_{max}$ = 30°

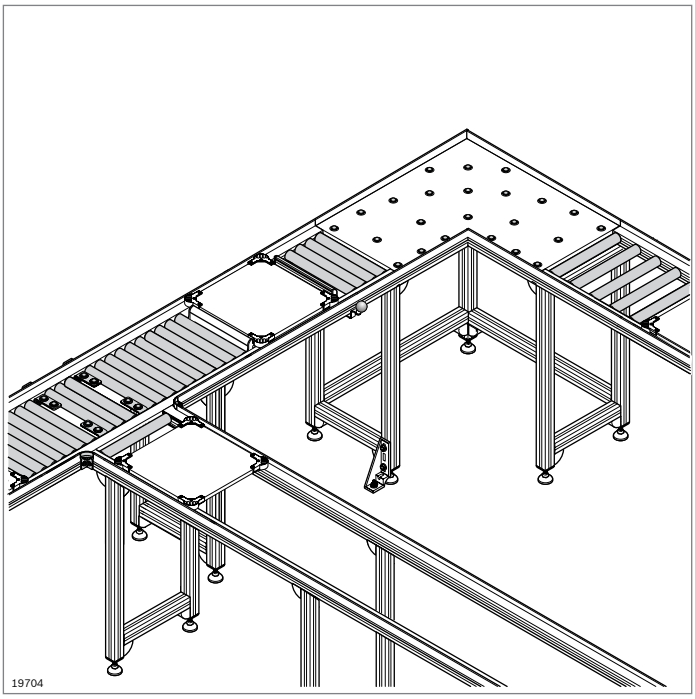
| Flexible bridge | | | No. |
|---|---|---|---|
| | | 20 | **3 842 537 911** |
| Material: | Steel; zinc-plated | | |




| Mounting | | | No. |
|---|---|---|---|
| | | 20 | **3 842 537 657** |
| Material: | Steel; zinc-plated | | |

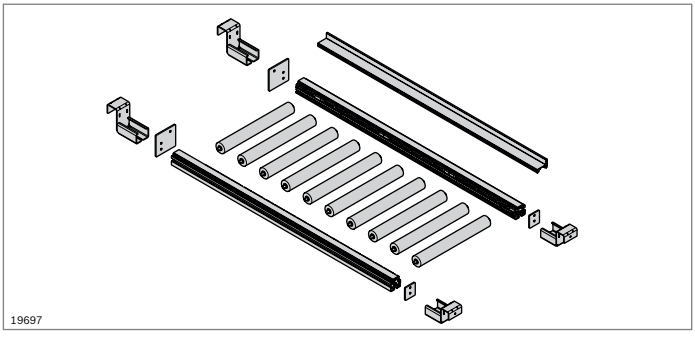



| Cover cap XLean | Color | ESD | | No. |
|---|---|---|---|---|
| | Black | | 20 | **3 842 562 077** |
| Material: | PP | | | |




## Elements for the construction of conveyor track EcoFlow

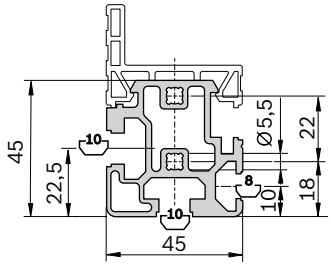
- Based on EcoFlow section profile
- For manual slide sections with rollers
- Clip-in guide profiles with lateral guide and clip-in conveyor rollers



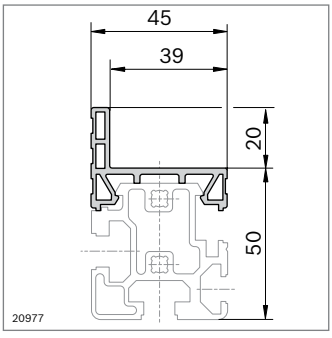



**MV45x45**

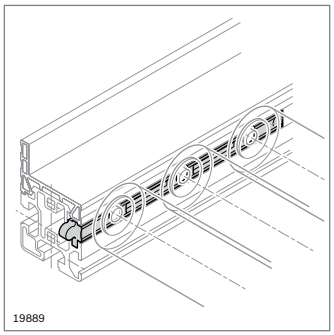
A = 6,2 cm²
$I_x$ = 11,8 cm⁴
$I_y$ = 10,5 cm⁴
$W_x$ = 5,3 cm³
$W_y$ = 4,7 cm³
m = 1,7 kg/m

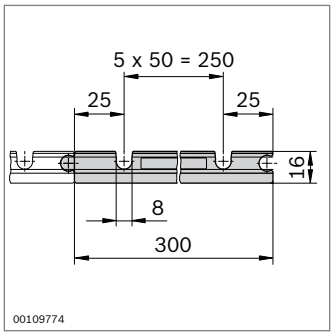



| Section profile MV45x45 | | L (mm) | No. |
|---|---|---|---|
| 1 pc | | 30 ... 6070 | **3 842 993 029 / L** |
| 1 pc | | 6070 | **3 842 537 357** |
| 20 pcs | | 6070 | **3 842 537 321** |
| Material: | Aluminum; anodized | | |



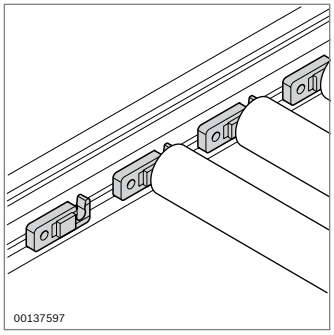

| Guide profile MV45 | Color | L (mm) | ESD | | No. |
|---|---|---|---|---|---|
| | Signal gray RAL 7004 | 70 ... 3000 | | 1 | **3 842 996 432** |
| | Signal gray RAL 7004 | 3000 | | 10 | **3 842 554 758** |
| | Black | 70 ... 3000 | ⚠ | 1 | **3 842 993 512 / L** |
| | Black | 3000 | ⚠ | 10 | **3 842 526 034** |
| Material: | PVC | | | | |

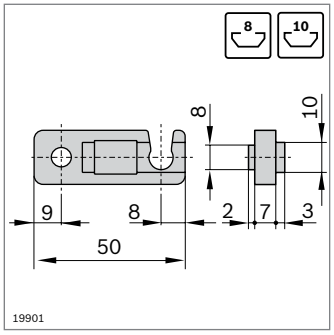



| EcoFlow roller carrier | ESD | | No. |
|---|---|---|---|
| | ESD | 10 | **3 842 535 683** |

Material: ABS; black

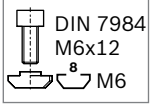


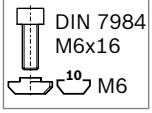

| Roller fixation | Slot | | No. | FS |
|---|---|---|---|---|
| | 8 | 10 | **3 842 535 667** | FS1 |
| | 10 | 10 | **3 842 535 668** | FS2 |

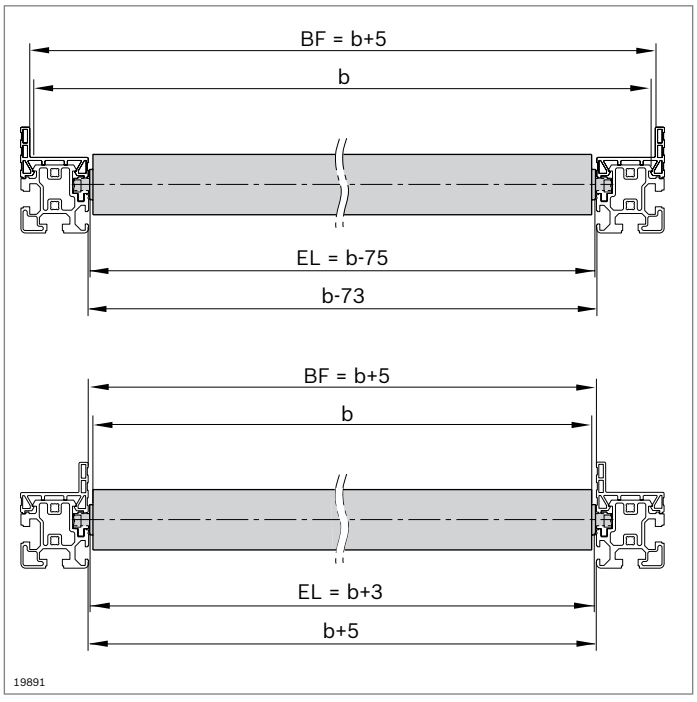
Material: Roller fixation: PA6; black
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

**FS1**

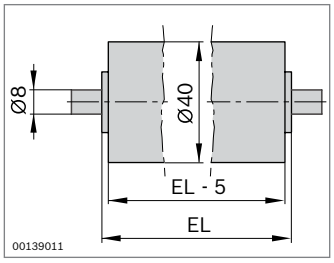


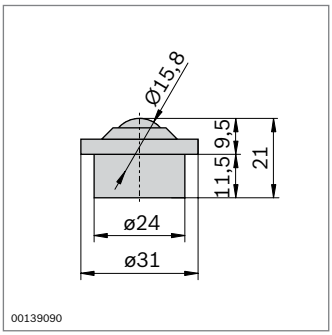

**FS2**



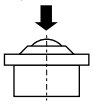




| EcoFlow roller | $F_{max}$ (N) | EL (mm) | ESD | No. |
|---|---|---|---|---|
| **Plastic, gray** | 150 | 105 ... 605 | | **3 842 994 989 / L** |
| | | 225 | | **3 842 525 740** |
| | | 325 | | **3 842 525 741** |
| | | 425 | | **3 842 525 742** |
| | | 525 | | **3 842 537 164** |
| **Steel; zinc-plated** | 500 | 105 ... 1005 | ESD | **3 842 994 988 / L** |
| | | 225 | ESD | **3 842 525 737** |
| | | 325 | ESD | **3 842 525 738** |
| | | 425 | ESD | **3 842 525 739** |
| | | 525 | ESD | **3 842 537 163** |
| **Stainless steel** | 150 | 105 ... 1005 | | **3 842 995 008 / L** |



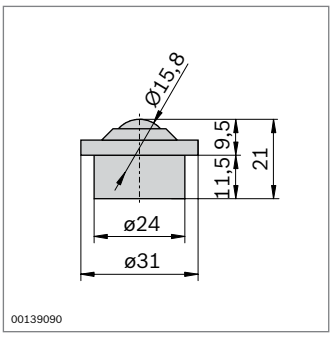



**$F_{max}$=500 N**

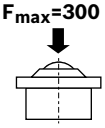


- Ball roller for smooth manual movement of goods with large surfaces

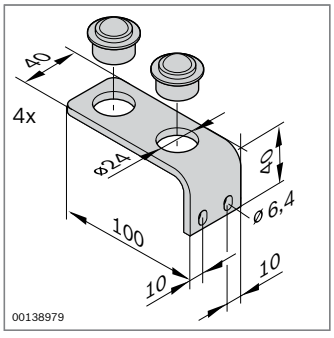
| Ball roller | ESD | | No. |
|---|---|---|---|
| | | 20 | **3 842 541 008** |
| Material: | Housing: Steel; zinc-plated<br>Ball: Stainless steel | | |




**$F_{max}$=300 N**



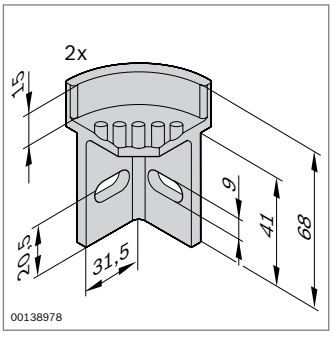
| Ball roller EcoFlow Plastic | | No. |
|---|---|---|
| | 20 | **3 842 564 744** |
| Material: | Housing: POM<br>Ball: POM | |




**FS1**



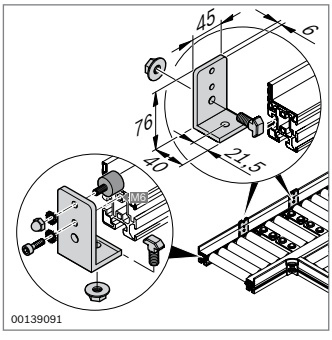

| Transverse conveyor | ESD | | No. | FS |
|---|---|---|---|---|
| | | Set | **3 842 536 055** | 8xFS1 |
| Material: | Bracket Steel; zinc-plated<br>Ball: Stainless steel | | | |
| Scope of delivery: | Incl. 4 x bracket plates, fastening material (FS) for 8 mm slot | | | |




**FS2**




| Corner piece | ESD | | No. | FS |
|---|---|---|---|---|
| | | Set | **3 842 536 056** | 4xFS2 |
| Material: | PA; black | | | |
| Scope of delivery: | Incl. 2 x corner connector, fastening material (FS) for 10 mm slot | | | |




**FS3**




**FS4**




**FS5**

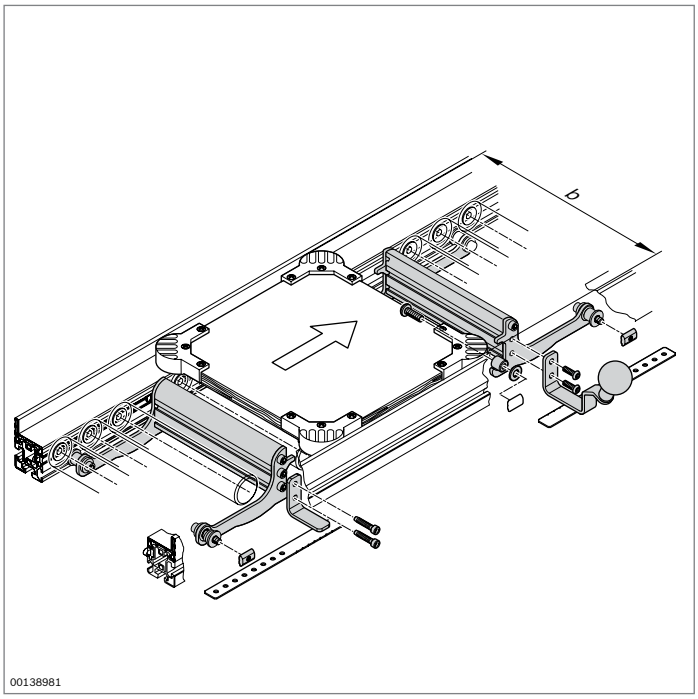



**FS6**



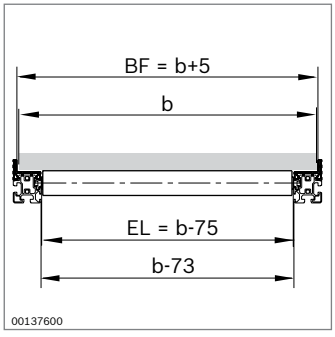

| Stop | | No. | FS |
|---|---|---|---|
| | Set | **3 842 536 057** | 2xFS3,<br>4xFS4,<br>2xFS5<br>2xFS6 |
| Material: | Aluminum; anodized | | |
| Scope of delivery: | Incl. 2 x stop, fastening material (FS) | | |

12



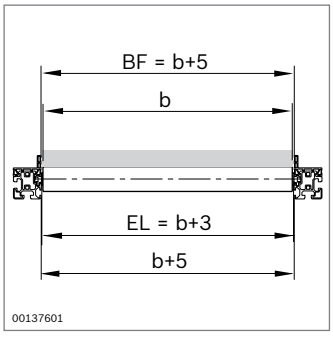

## EcoFlow stop gates and return stops

- 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 | **3 842 995 007 / EL** |
| | 225 | **3 842 537 894** |
| | 325 | **3 842 537 895** |
| | 425 | **3 842 537 896** |
| | 525 | **3 842 537 897** |

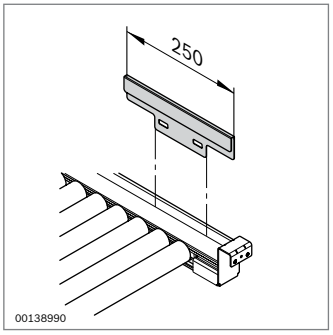
Scope of delivery: Incl. Fastening material
Condition on delivery: As components (pre-assembled)

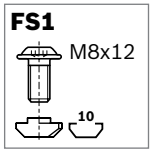



| **Return stop** | **EL** (mm) | **No.** |
|---|---|---|
| | 105 ... 1005 | **3 842 995 017 / EL** |
| | 225 | **3 842 537 898** |
| | 325 | **3 842 537 899** |
| | 425 | **3 842 537 900** |
| | 525 | **3 842 537 901** |

Scope of delivery: Incl. Fastening material
Condition on delivery: As components (pre-assembled)

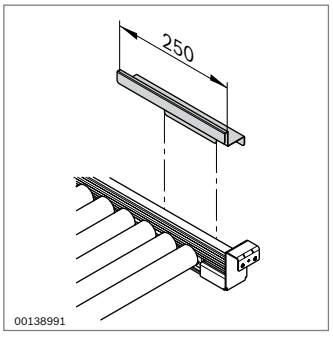
## EcoFlow accessories

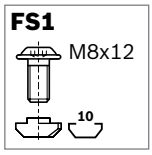



- Protective cover to protect the EcoFlow guide profile when loading the conveyor track

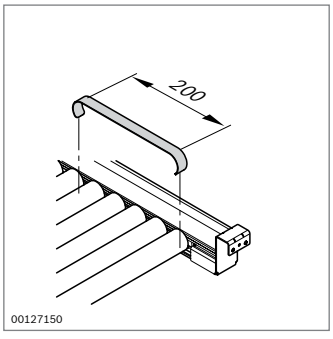
| Protective cover | | No. | FS |
|---|---|---|---|
| **Outer slide rail** | Set | **3 842 537 583** | 4xFS1 |
| Material: | Steel; zinc-plated | | |
| Scope of delivery: | Incl. 2 x protective cover, fastening material (FS) | | |



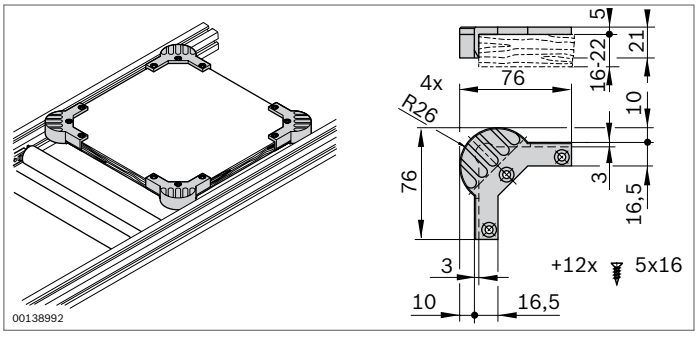

- Protective cover to protect the EcoFlow guide profile when loading the conveyor track

| Protective cover | | No. | FS |
|---|---|---|---|
| **Inner slide rail** | Set | **3 842 537 584** | 4xFS1 |
| Material: | Steel; zinc-plated | | |
| Scope of delivery: | Incl. 2 x protective cover, fastening material (FS) | | |



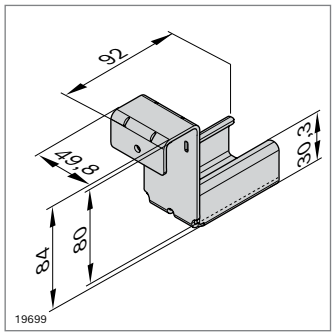

- Brake for bringing containers to a stop gently

| Brake | | No. |
|---|---|---|
| | 20 | **3 842 537 740** |
| 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

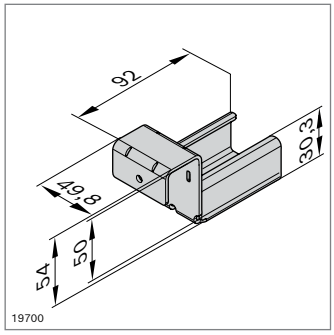
| Corner pieces for workpiece pallets | ESD | | No. |
|---|---|---|---|
| | | Set | **3 842 536 054** |
| Material: | PA; black | | |




**FS5**
M8x12-10.9-VZ
10 M8

| Rail holder with stop | | No. | FS |
|---|---|---|---|
| | 20 | **3 842 537 664** | FS5 |

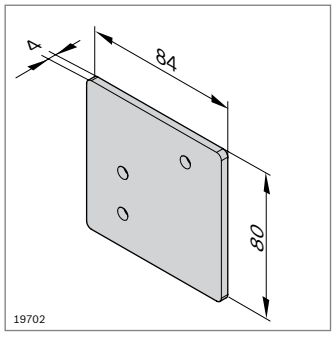
Material: Steel; zinc-plated
Accessories: Round tube D28 (p. 2-76)
Scope of delivery: Incl. fastening material (FS)




**FS5**
M8x12-10.9-VZ
10 M8

| Rail holder without stop | | No. | FS |
|---|---|---|---|
| | 20 | **3 842 537 665** | FS5 |

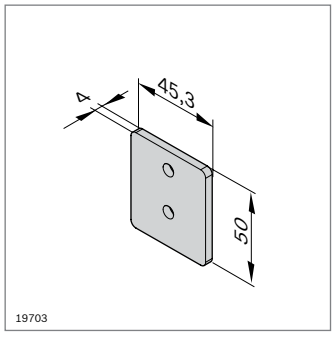
Material: Steel; zinc-plated
Accessories: Round tube D28 (p. 2-76)
Scope of delivery: Incl. fastening material (FS)




**FS6**
S6x16-T25

| Stop plate with stop | | No. | FS |
|---|---|---|---|
| | 20 | **3 842 537 593** | 2xFS6 |

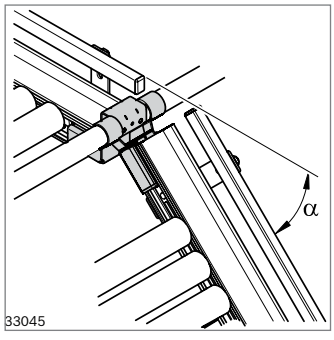
Material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)




**FS6**
S6x16-T25

| Stop plate without stop | | No. | FS |
|---|---|---|---|
| | 20 | **3 842 537 592** | 2xFS6 |

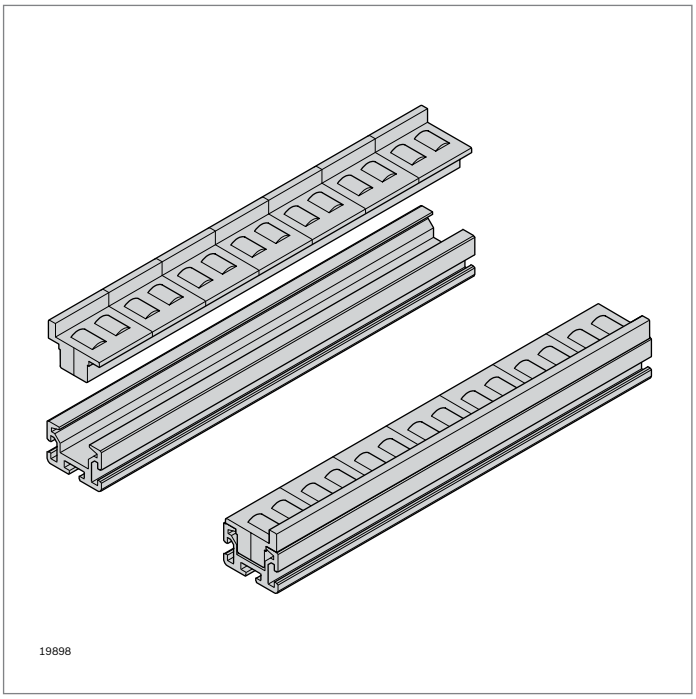
Material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)




- Flexible bridge with maximum tilt ($\alpha_{max}$) from horizontal:
  - With round tube D28 (p. 2-76): $\alpha_{max}$ = 40°
  - With strut profile D28x55 (p 2-77): $\alpha_{max}$ = 30°

| Flexible bridge | | No. |
|---|---|---|
| | 20 | **3 842 537 950** |

Material: Steel; zinc-plated



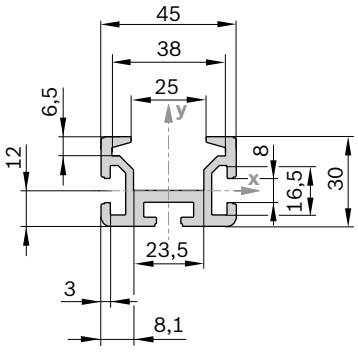

## Conveyor track made of section profiles and roller elements

- Economical solution for manual slide sections
- Roller elements can be clipped in

Accessories:
Roller elements (p. 12-21)

**SP 2/R**

A = 5,2 cm²
$I_x$ = 4,3 cm⁴
$I_y$ = 11,7 cm⁴
$W_x$ = 2,4 cm³
$W_y$ = 5,2 cm³
m = 1,4 kg/m

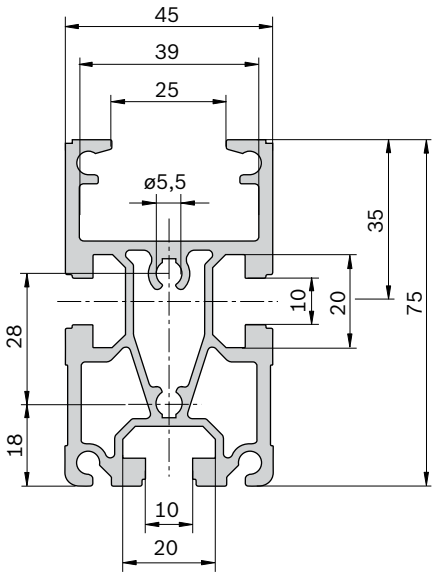



| Section profile SP 2/R | | L (mm) | No. |
|---|---|---|---|
| | | 50 ... 6000 | **3 842 992 676 / L** |
| Material: | Aluminum, natural-colored, anodized | | |

12

## SP 2/B

A = 10,4 cm²
$I_x$ = 49,6 cm⁴
$I_y$ = 25,8 cm⁴
$W_x$ = 12,1 cm³
$W_y$ = 11,5 cm³
m = 2,8 kg/m



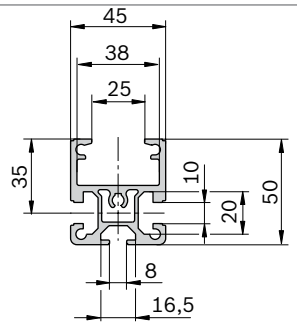

19604

| Section profile SP 2/B | | Slot | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 10 | 200 ... 6070 | **3 842 992 884 / L** |
| 16 pcs | | 10 | 6070 | **3 842 532 695** |

Material: Aluminum, natural-colored, anodized

## SP 2/B-50

A = 6,9 cm²
$I_x$ = 46,2 cm⁴
$I_y$ = 16,9 cm⁴
$W_x$ = 5,3 cm³
$W_y$ = 7,5 cm³
m = 1,9 kg/m



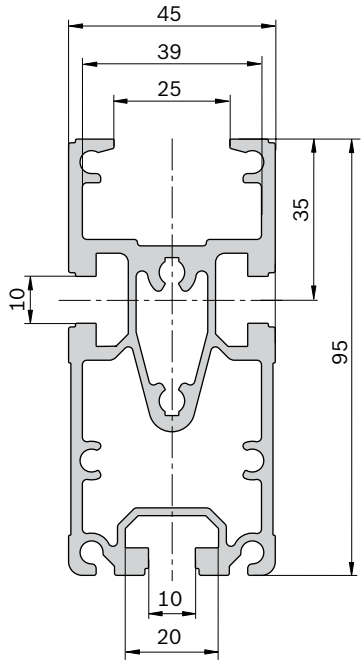

19605

| Section profile SP 2/B-50 | | Slot | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | 8 / 10 | 200 ... 6070 | **3 842 992 903 / L** |
| 20 pcs | | 8 / 10 | 6070 | **3 842 532 697** |

Material: Aluminum, natural-colored, anodized

## SP 2/B-100

A = 11,9 cm²
$I_x$ = 95,1 cm⁴
$I_y$ = 30,4 cm⁴
$W_x$ = 20,0 cm³
$W_y$ = 13,5 cm³
m = 3,2 kg/m



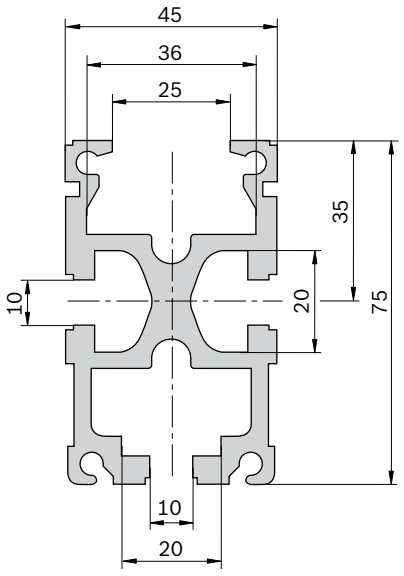

19606

| Section profile SP 2/B-100 | | Slot | L (mm) | No. |
|---|---|---|---|---|
| 1 pc | | | 200 ... 6070 | **3 842 993 259 / L** |
| 16 pcs | | 10 | 6070 | **3 842 532 608sw** |

Material: Aluminum, natural-colored, anodized

**SP 2/BH**

A = 12,4 cm²
$I_x$ = 53,7 cm⁴
$I_y$ = 28,6 cm⁴
$W_x$ = 14,0 cm³
$W_y$ = 13,8 cm³
m = 3,3 kg/m



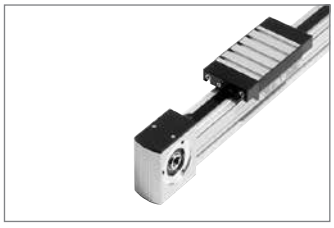

19607

| Section profile SP 2/BH | Slot | L (mm) | No. |
|---|---|---|---|
| 1 pc | 10 | 200 ... 6070 | **3 842 990 409 / L** |
| 16 pcs | 10 | 6070 | **3 842 532 696** |

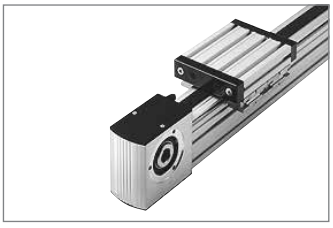
Material: Aluminum, natural-colored, anodized

12

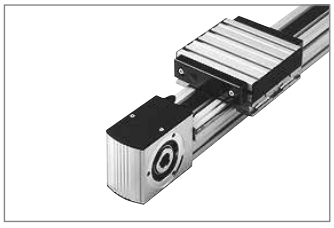
# Linear guides



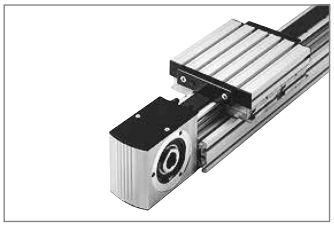
Cam roller guide LF6C
(p. 13-6)



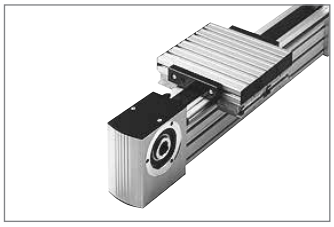
Cam roller guide LF12S
(p. 13-11)



Cam roller guide LF12C
(p. 13-18)



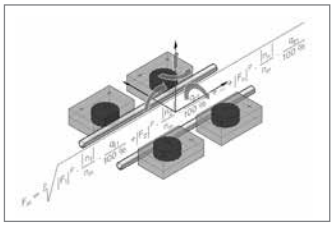
Cam roller guide LF20S
(p. 13-25)



Cam roller guide LF20C
(p. 13-32)



Plug-in shafts, synchronous shafts (p. 13-42)

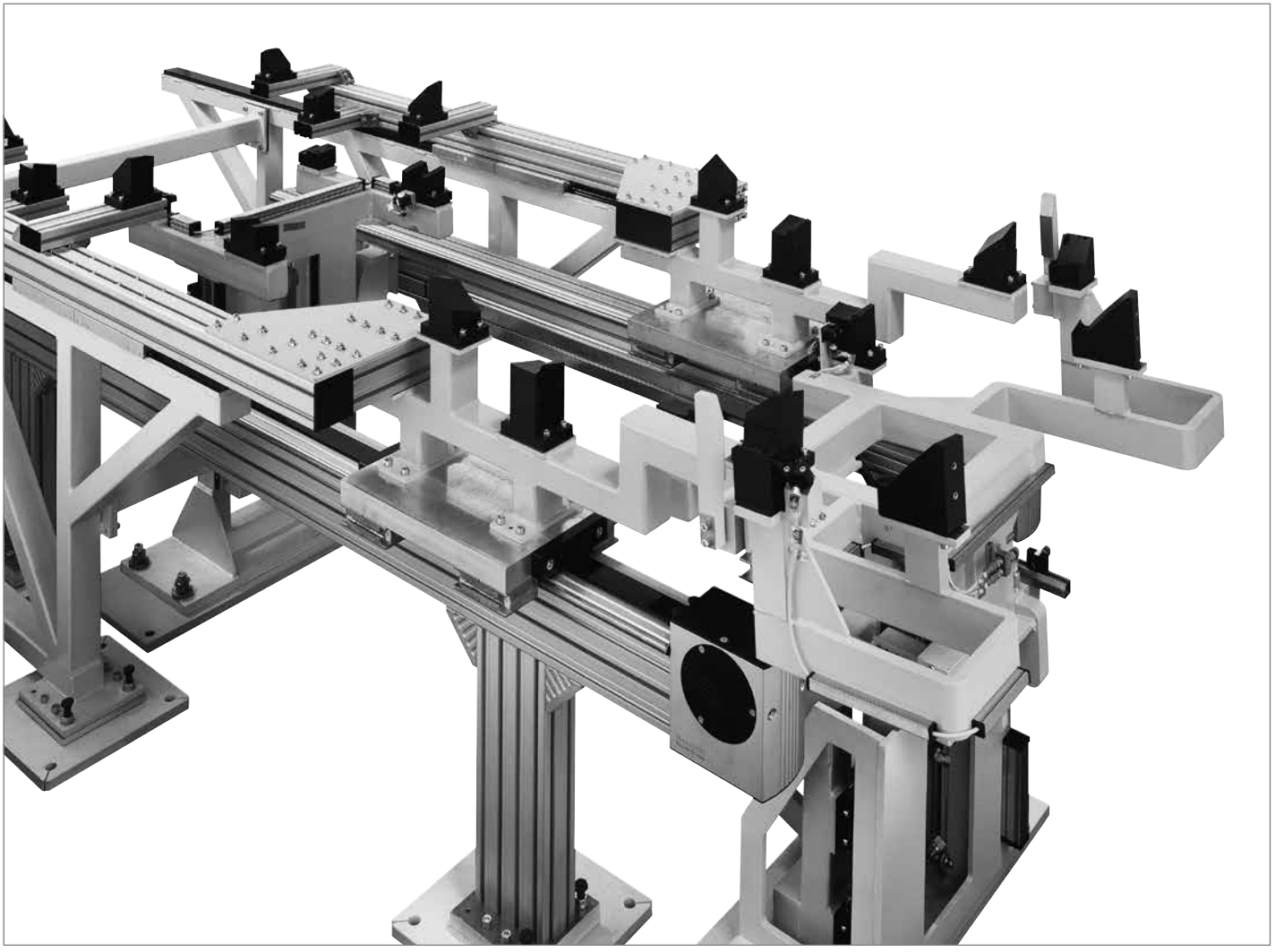


Design (p. 13-44)

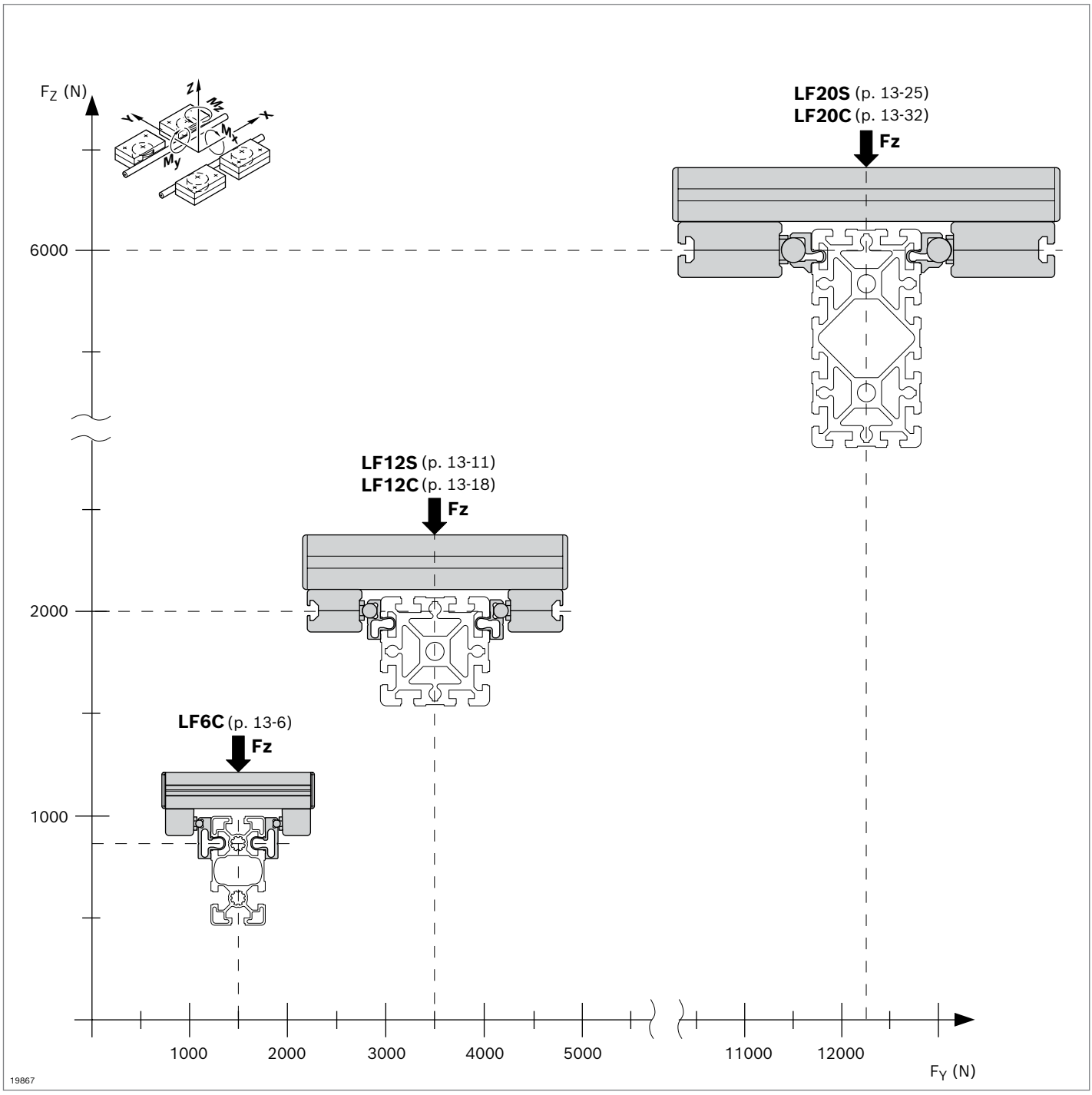


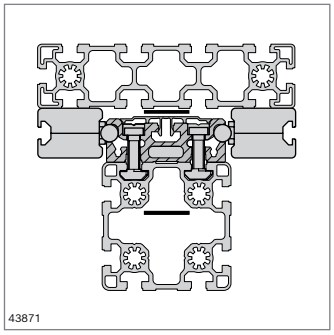
## Linear guides

- 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



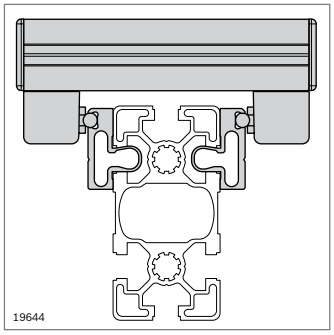
## Linear guides – sizes, designs, and loads



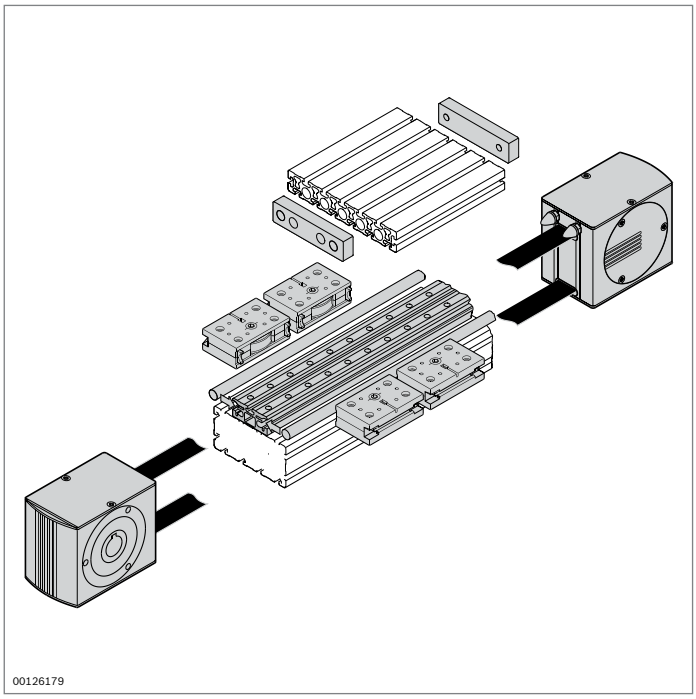

**LF...S**

- Compact construction
- Fixed track width
- $v_{max}$ = 5 m/s



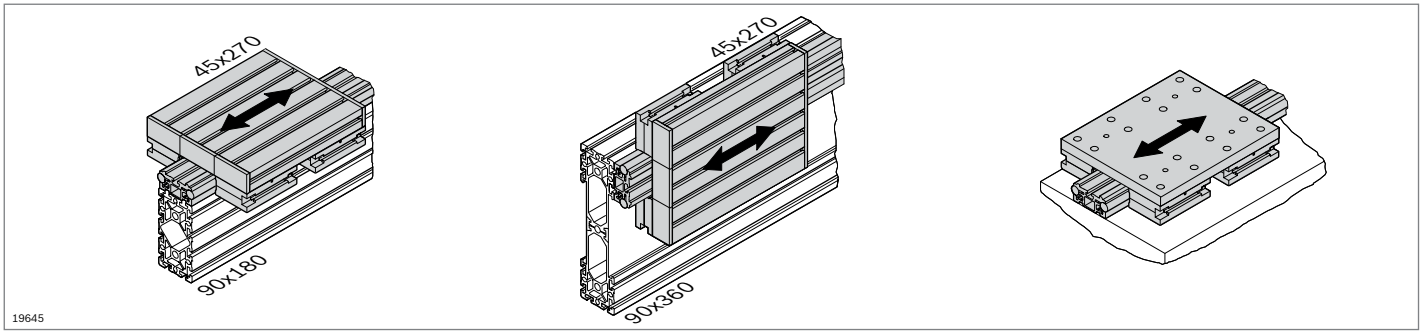

**LF...C**

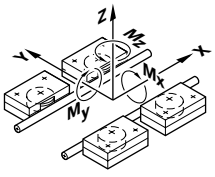
- Freely selectable track width for greater torque absorption
- $v_{max}$ = 5 m/s




## Cam roller guides LF...S

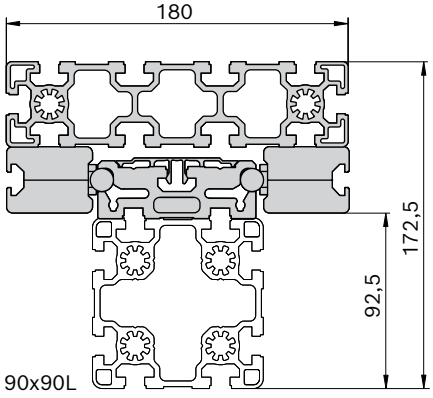
- Cam roller guide LF...S with fixed track widths
- Guide rail made of aluminum with hardened and polished VA guide rods
- Simple mounting on strut profile or directly on flat surface, e.g. on a machine
- High precision, dimensional stability and torsional rigidity
- Lighter and cheaper than steel guides
- Light trolley with good torsional rigidity
- Freely selectable trolley lengths
- Freely selectable stroke lengths possible
- High permissible speed



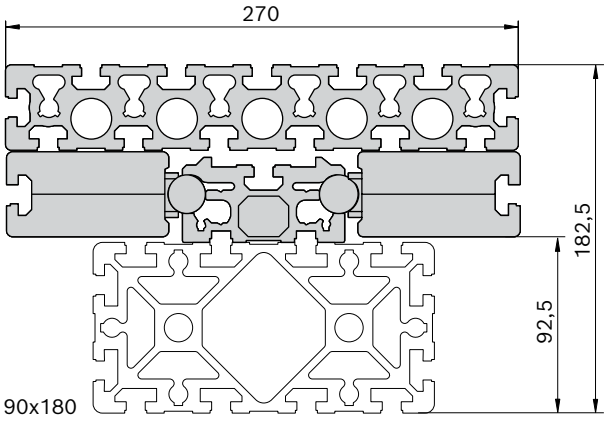

The support profiles shown here are examples

### LF12S



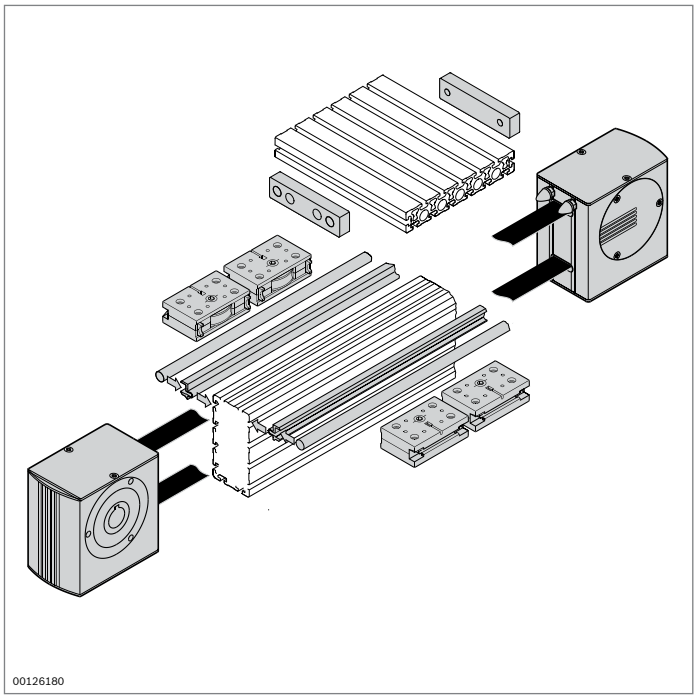

$F_{y\,max}$ = 3500 N
$F_{z\,max}$ = 2000 N
$M_{x\,max}$ = 78 Nm
$v_{max}$ = 5 m/s

### LF20S



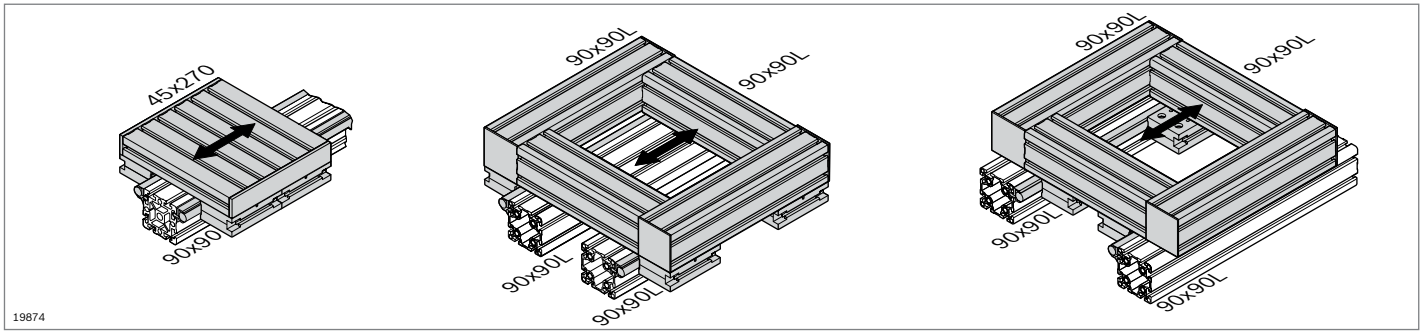

$F_{y\,max}$ = 12500 N
$F_{z\,max}$ = 6000 N
$M_{x\,max}$ = 240 Nm
$v_{max}$ = 5 m/s

19646



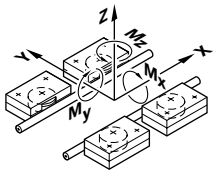

## Cam roller guides LF...C

- 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

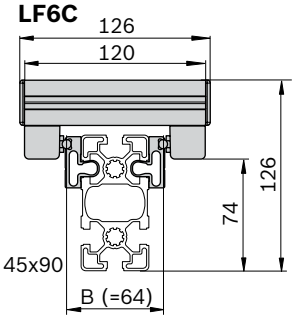





The support profiles shown here are examples

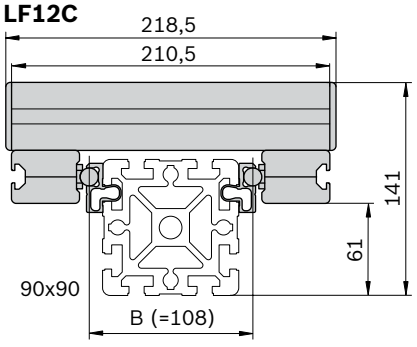



**LF6C**



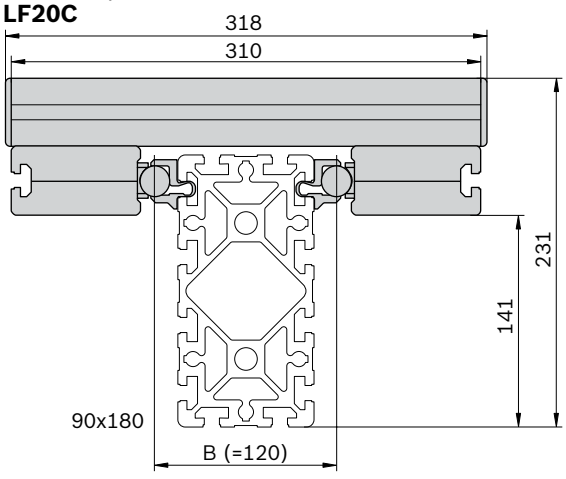

$F_{y\,max}$ = 1400 N
$F_{z\,max}$ = 850 N
$M_{x\,max}$ = 0,4 x B Nm
$M_{x\,max}$ = 25,6 Nm (B=64mm)
$v_{max}$ = 5 m/s

**LF12C**



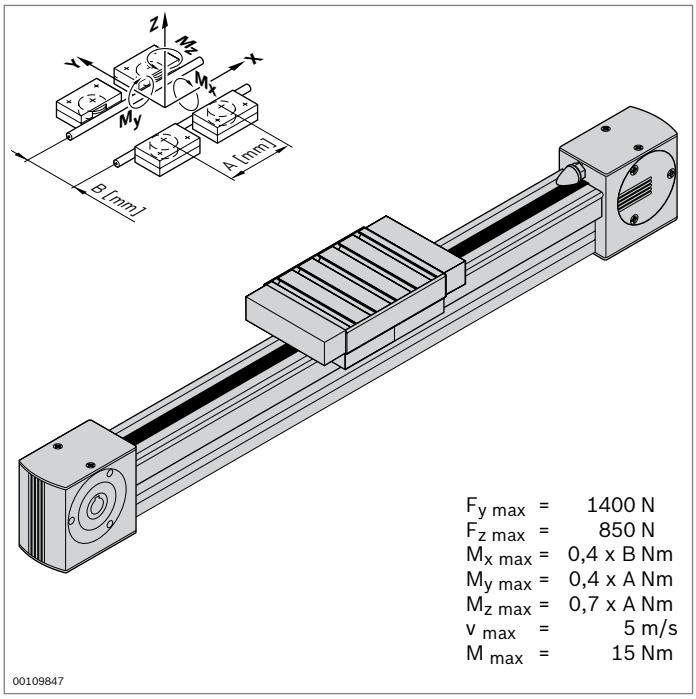

$F_{y\,max}$ = 3500 N
$F_{z\,max}$ = 2000 N
$M_{x\,max}$ = 1,0 xB Nm
$M_{x\,max}$ = 108 Nm (B=108mm)
$v_{max}$ = 5 m/s

**LF20C**

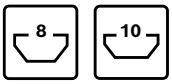



$F_{y\,max}$ = 12500 N
$F_{z\,max}$ = 6000 N
$M_{x\,max}$ = 3,0 x B Nm
$M_{x\,max}$ = 360 Nm (B=120 mm)
$v_{max}$ = 5 m/s

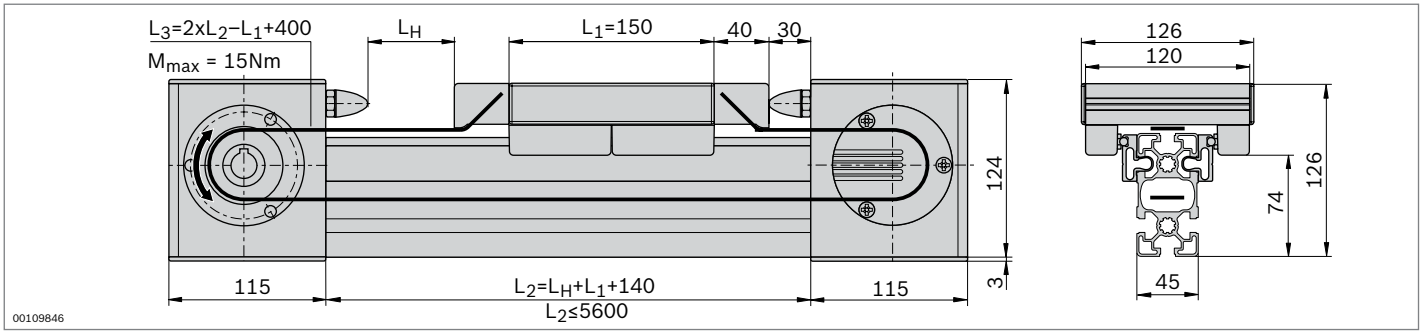
19647




## Cam roller guide LF6C – complete axis



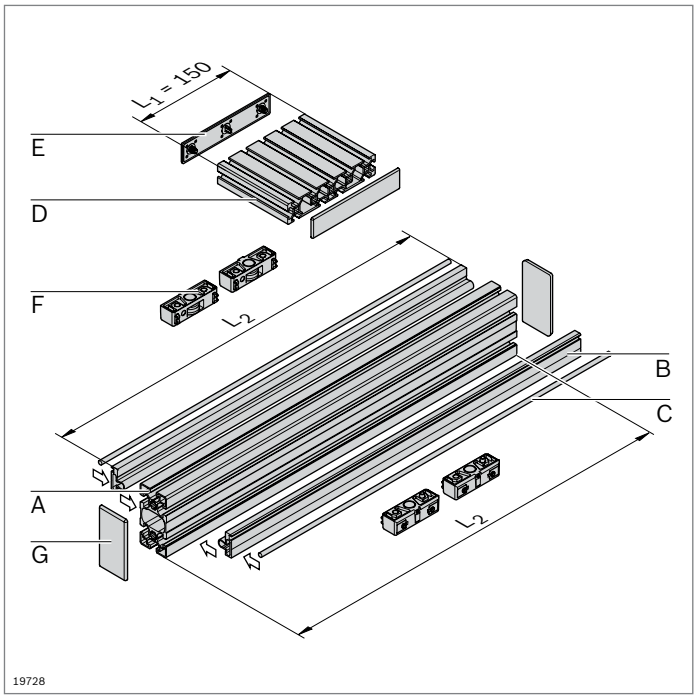

- Fully assembled cam roller guide
- Stroke can be individually selected
- Clamping profile clipped into strut profile 45x90L
- Incl. toothed belt drive; additional notes on the drive concept (p. 13-39)




### 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 / $L_H$** |

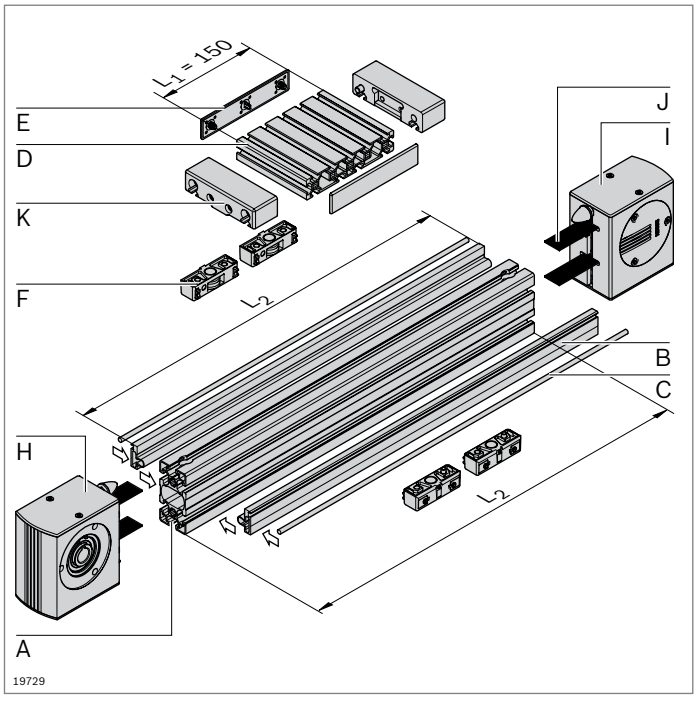



## Cam roller guide LF6C – components

- Components for the individual assembly of cam roller guides, with or without drive

### Parts list for cam roller guide LF6C without drive

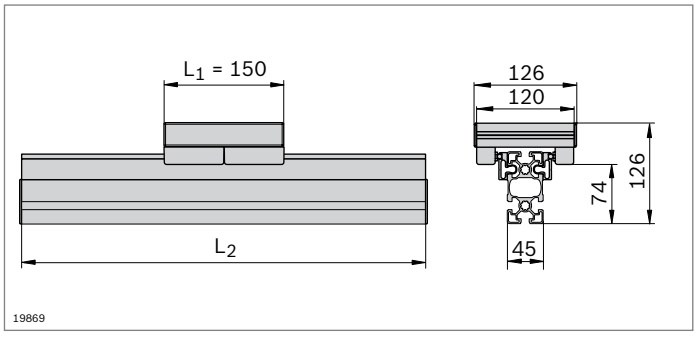
| Component | | No. | Pcs | Page |
|---|---|---|---|---|
| **A** | Profile 45x90L | **3 842 992 432 / $L_2$** | 1 | 2-43 |
| **B** | Clamping profile LF6C | **3 842 992 925 / $L_2$** | 2 | 13-8 |
| **C** | Guide rod LF6 | **3 842 993 967 / $L_2$** | 2 | 13-8 |
| **D** | Trolley profile LF6C | **3 842 993 952 / 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 |



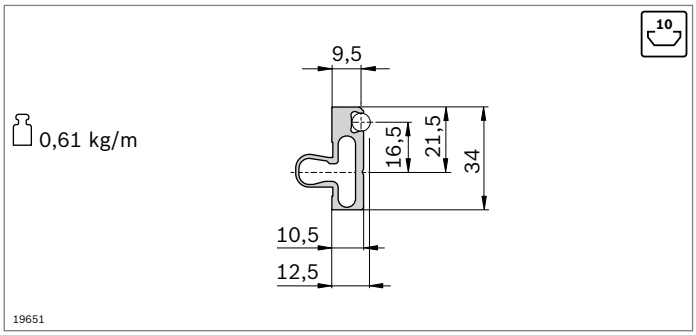

### Parts list for cam roller guide LF6C with drive

| Component | | No. | Pcs | Page |
|---|---|---|---|---|
| **A** | Profile 45x90L LF LF | **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 / $L_3$**[1)] | 1 | 13-10 |
| **K** | Belt connector LF6C | **3 842 535 681** | 2 | 13-10 |

[1)] $L_3 = 2xL_2 - L_1 + 400$

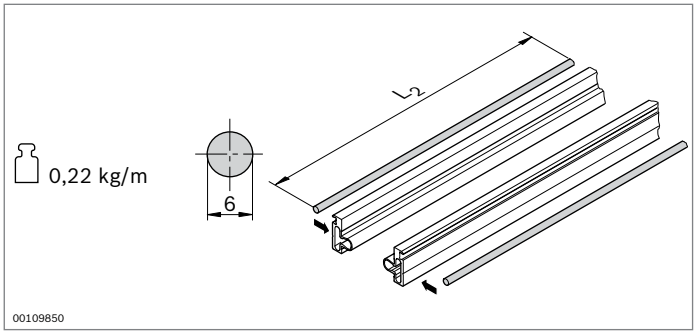



13



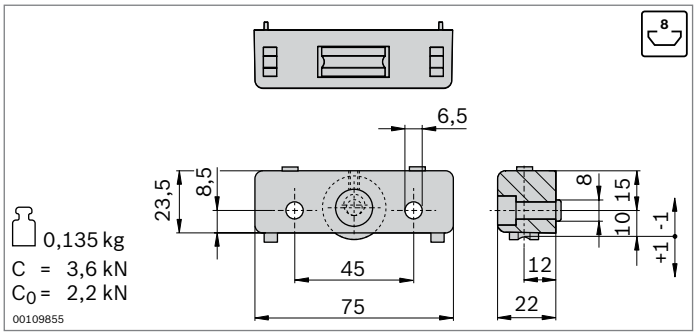

- The clamping profile is clipped into any 10 mm slot of the strut profile and it holds the guide rods

| Clamping profile | | $L_2$ (mm) | No. |
|---|---|---|---|
| **LF6C** | 1 pc | 150 ... 3000 | **3 842 992 925 / $L_2$** |
| | 20 pcs | 3000 | **3 842 518 896** |
| Material: | Aluminum; anodized | | |




- The guide rod is pressed into the clamping profile
- The guide rod guides the guide bearing

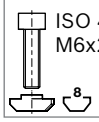
| Guide rod | $L_2$ (mm) | | No. |
|---|---|---|---|
| **LF6** | 150 ... 3000 | 1 | **3 842 993 967 / $L_2$** |
| | 3000 | 20 | **3 842 539 414** |
| Material: | Solid shaft VA, induction hardened, polished | | |
| Condition on delivery: | Ungreased; greasing according to assembly instructions **3 842 527 226** | | |

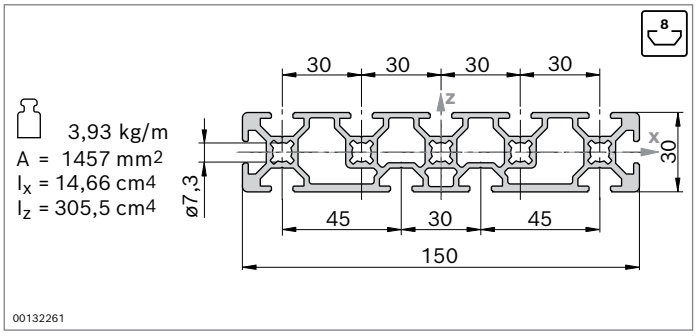



- Guide bearing for trolley construction
- Guiding via guide rod
- Cam rollers with ball bearings, permanently lubricated
- Lubricating felts with guide rod lubrication reservoir
- Play-free cam roller adjustment via eccentric bolts

| Guide bearing | | No. | FS |
|---|---|---|---|
| **LF6** | 2 | **3 842 535 662** | 2xFS1 |
| Material: | Housing: Diecast aluminum<br>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** | | |

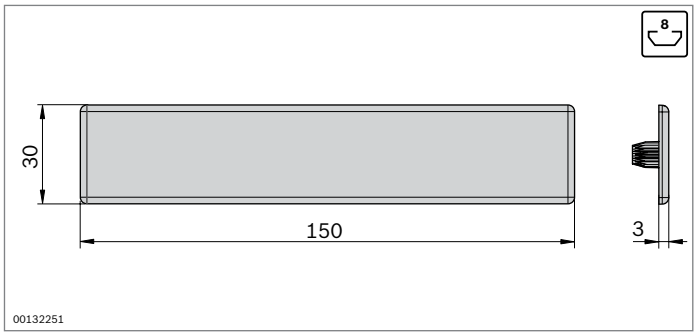
**FS1**



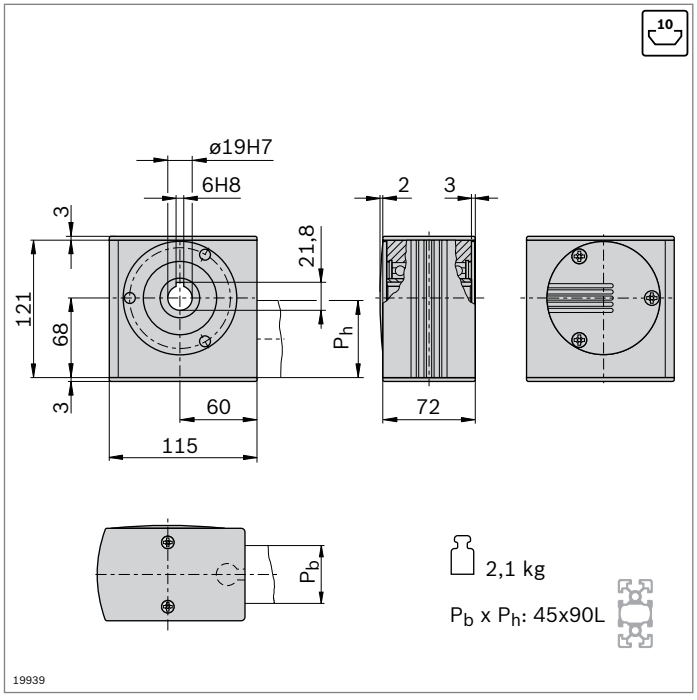

- Trolley profile for the construction of trolley LF6C

| Trolley profile | L (mm) | No. |
|---|---|---|
| **LF6C** | 150 ... 3000 | **3 842 993 952 / L** |
| Material: | Aluminum; anodized | |




- 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 | |



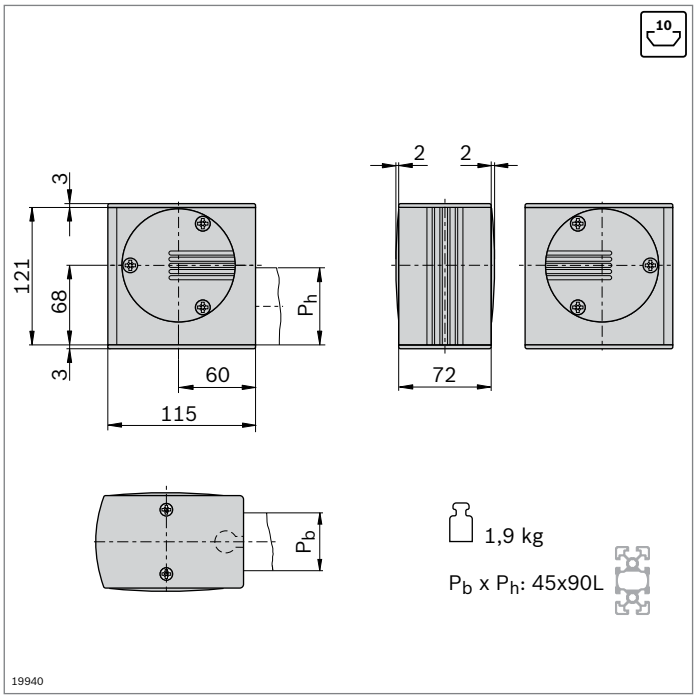

- Drive head for transferring drive torque to a toothed belt
- For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-41)
- Mounted directly on profile 45x90L using longitudinal end connector
- Profile finishing: LF blind hole drilling for longitudinal end connector

| Drive head | No. | FS |
|---|---|---|
| **LF6C** | **3 842 526 416** | 2xFS2, FS3 |
| Material: | Aluminum; anodized<br>Hollow shaft: Steel; zinc-plated<br>Cover caps: PA; black | |
| Scope of delivery: | Incl. fastening material (FS), cover caps | |

**FS2**
ISO 7380
M8x40

**FS3**
ISO 4035
M8-04

13



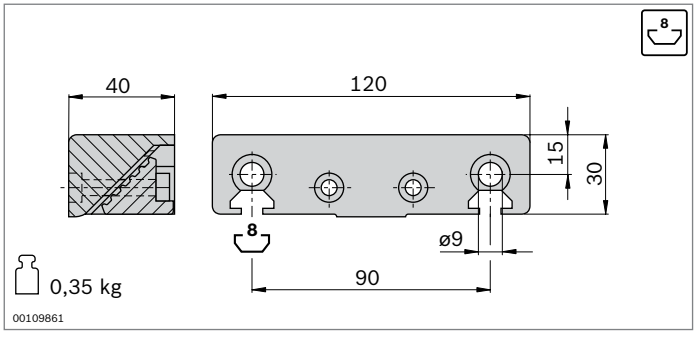

- Return head for tensioning the toothed belt and changing its direction
- Mounted directly on profile 45x90L using longitudinal end connector
- Profile finishing: LF blind hole drilling for longitudinal end connector

| Return head | No. | FS |
|---|---|---|
| **LF6C** | **3 842 526 417** | 2xFS2, FS3 |

| | |
|---|---|
| Material: | Aluminum; anodized<br>Hollow shaft: Steel; zinc-plated<br>Cover caps: PA; black |
| Scope of delivery: | Incl. fastening material (FS), cover caps |

**FS2**
ISO 7380
M8x40

**FS3**
ISO 4035
M8-04




- Belt connector for fastening the toothed belt to the trolley slot
- All connecting parts for mounting on the trolley profile LF6C are included

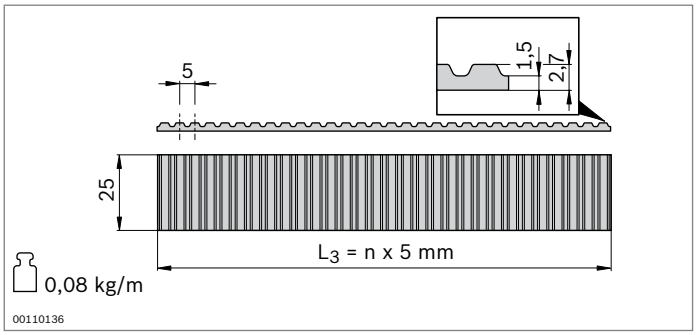
| Belt connector | | No. | FS |
|---|---|---|---|
| **LF6C** | 2 | **3 842 535 681** | 2xFS4, 2xFS5, 2xFS6 |

| | |
|---|---|
| Material: | Aluminum, painted black |
| Scope of delivery: | Incl. fastening material (FS) |

**FS4**
DIN 7984
M6x35
6-FSt
ISO 4032–M6

**FS5**
DIN 7984
M8x50
8-FSt
8

**FS6**
DIN 7984
M8x40

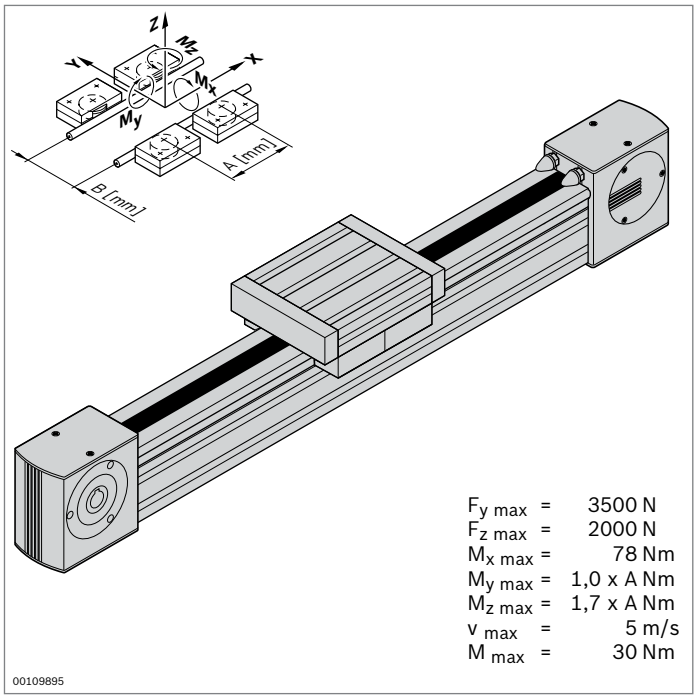



- Toothed belt as a trolley drive
- Pitch: AT5

| Toothed belt | $L_3$ (mm) | No. |
|---|---|---|
| **LF6C** | 300 ... 50000 | **3 842 994 711 / $L_3$ [1)]** |
| | 50000 | **3 842 518 856** |

[1)] $L_3 = 2xL_2 - L_1 + 400$

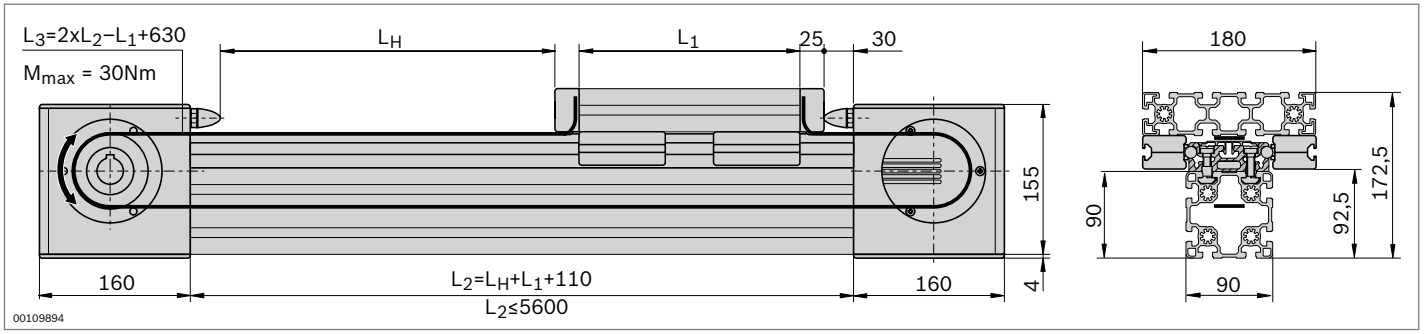
Material: PU with embedded steel wires




## Cam roller guide LF12S – complete axis

10

- 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)

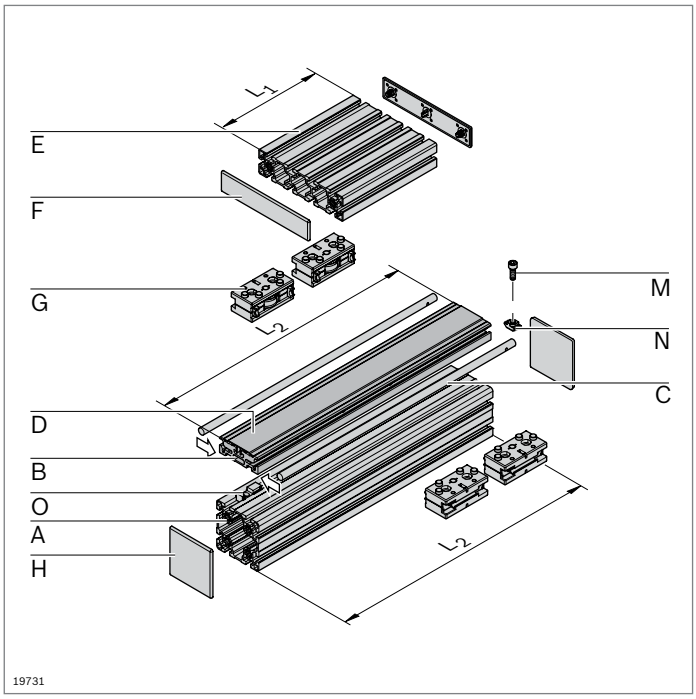



13

### Technical data

For notes on layout and drive, see page 13-45

| Complete axis | $L_H$ / $L_1$ (mm) | No. |
|---|---|---|
| **LF12S** | $L_1+50 \le L_H \le 5310$<br>$180 \le L_1 \le 1000$ | **3 842 998 497 / $L_H$ / $L_1$** |



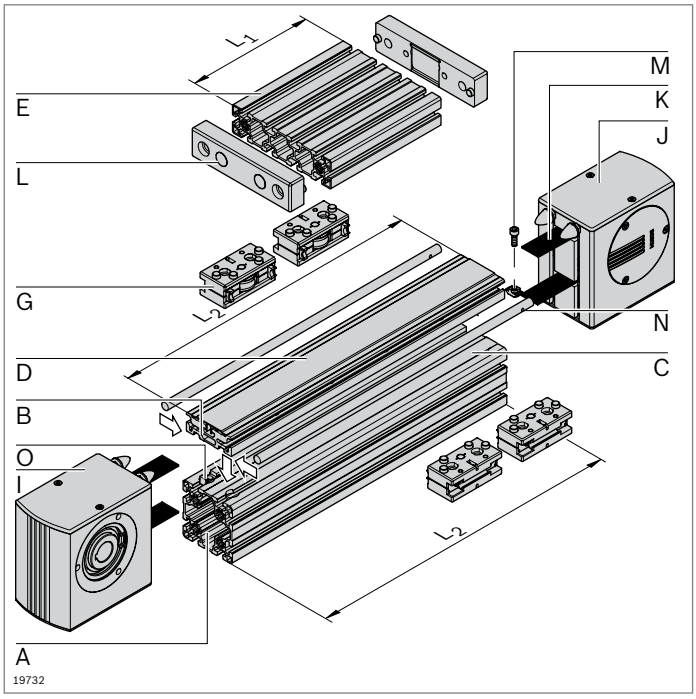

## Cam roller guide LF12S – components

- 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 |
|---|---|---|---|---|
| **A** | Profile 90x90L | **3 842 992 415 / $L_2$** | 1 | 2-48 |
| **B** | Guide profile LF12S | **3 842 992 438 / $L_2$** | 1 | 13-13 |
| **C** | Guide rod LF12 | **3 842 993 968 / $L_2$** | 2 | 13-13 |
| **D** | Cover profile LF12S | **3 842 993 062 / $L_2$** | 1 | 13-13 |
| **E** | Profile 45x180 | **3 842 990 335 / $L_1$** | 1 | 2-46 |
| **F** | Cover cap 45x180 | **3 842 548 795** | 2 | 2-46 |
| **G** | Guide bearing LF12 | **3 842 535 664** | 4 | 13-14 |
| **H** | Cover cap 90x90L | **3 842 548 759** | 2 | 2-48 |
| **M** | Cylinder head screw DIN 7984 – M8x30 | | n[1)] | |
| **N** | T-nut M8, 10 mm slot | **3 842 530 287** | n[1)] | 3-4 |
| **O** | Sliding block | **3 842 146 877** | n[1)] | 13-13 |

[1)] For identification see page 13-13

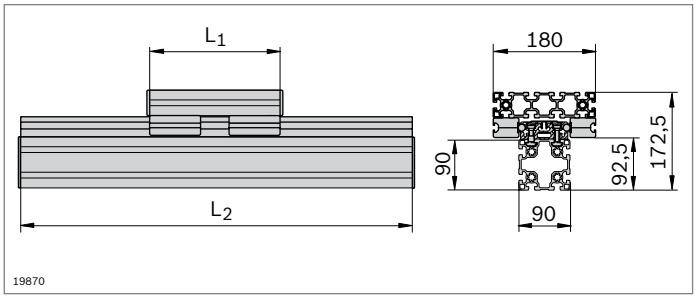


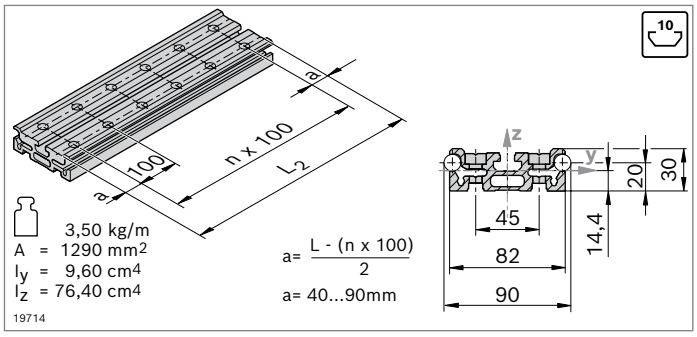

### Parts list for cam roller guide LF12S with drive

| Component | | No. | Pcs | Page |
|---|---|---|---|---|
| **A** | Profile 90x90L LF LF | **3 842 992 418 / $L_2$** | 1 | 2-48 |
| **B** | Guide profile LF12S | **3 842 992 438 / $L_2$** | 1 | 13-13 |
| **C** | Guide rod LF12 | **3 842 993 968 / $L_2$** | 2 | 13-13 |
| **D** | Cover profile LF12S | **3 842 993 062 / $L_2$** | 1 | 13-13 |
| **E** | Profile 45x180 M12 M12 | **3 842 990 339 / $L_1$** | 1 | 2-46 |
| **G** | Guide bearing LF12 | **3 842 535 664** | 4 | 13-14 |
| **I** | Drive head LF12S | **3 842 526 412** | 1 | 13-16 |
| **J** | Return head LF12S | **3 842 526 413** | 1 | 13-16 |
| **K** | Toothed belt | **3 842 994 821 / $L_3$[1)]** | 1 | 13-17 |
| **L** | Belt connector | **3 842 535 680** | 2 | 13-17 |
| **M** | Cylinder head screw DIN 7984 – M8x30 | | n[2)] | |
| **N** | T-nut M8, 10 mm slot | **3 842 530 287** | n[2)] | 3-4 |
| **O** | Sliding block | **3 842 146 877** | n[2)] | 13-13 |

[1)] $L_3 = 2xL_2 - L_1 + 630$

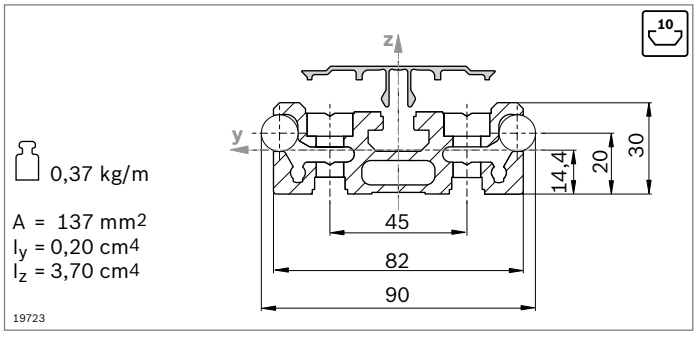
[2)] For identification see page 13-13





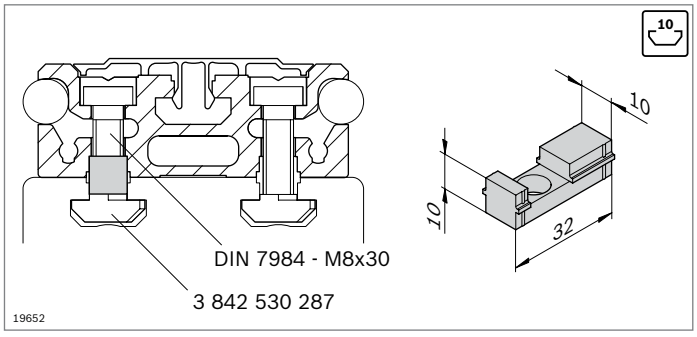

- Guide profile LF12S to hold the guide rods
- Installation on MGE strut profiles with 10 mm slot or directly on a flat surface

| Guide profile | | $L_2$ (mm) | No. |
|---|---|---|---|
| **LF12S** | 1 pc | 180 ... 6070 | **3 842 992 438 / $L_2$** |
| | 6 pcs | 6070 | **3 842 557 945** |
| Material: | Aluminum; anodized | | |
| Accessories: | Cylinder bolt DIN 7984 – M8x30<br>T-nut M8, 10 mm slot, **3 842 530 287**<br>Sliding block, cover profile, guide rod | | |



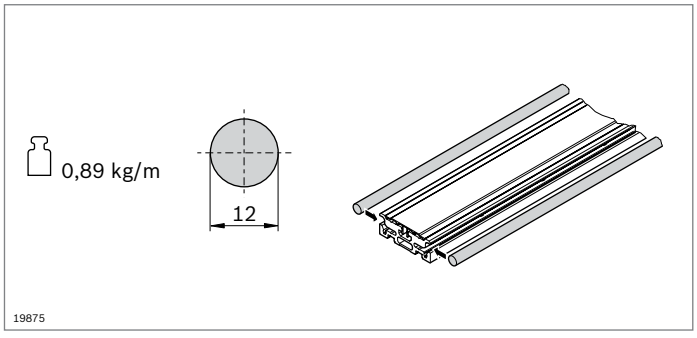

- Cover profile to prevent contamination on threaded connections

| Cover profile | $L_2$ (mm) | No. |
|---|---|---|
| **LF12S** | 150 ... 5600 | **3 842 993 062 / $L_2$** |
| Material: | Aluminum; anodized | |



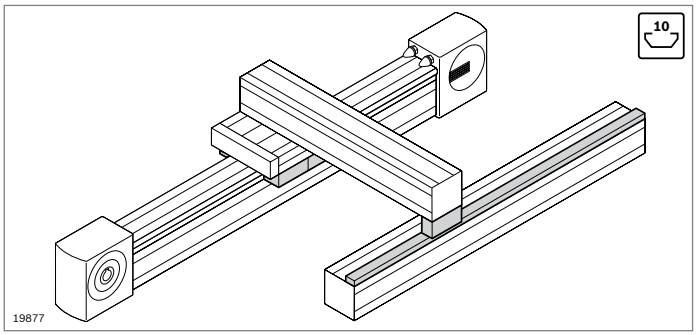

- Sliding block as a centering aid for mounting the guide profile in a 10 mm profile slot

| Sliding block | | No. |
|---|---|---|
| | 50 | **3 842 146 877** |
| Material: | PA; black | |

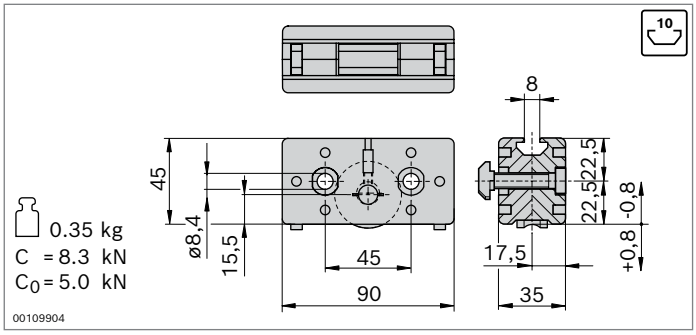



- The guide rod is pressed into the guide profile
- The guide rod guides the guide bearing

| Guide rod | $L_2$ (mm) | | No. |
|---|---|---|---|
| **LF12** | 150 ... 2900 | 1 | **3 842 993 968 / $L_2$** |
| | 2900 | 20 | **3 842 539 415** |
| 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. 13-15)




- 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 |

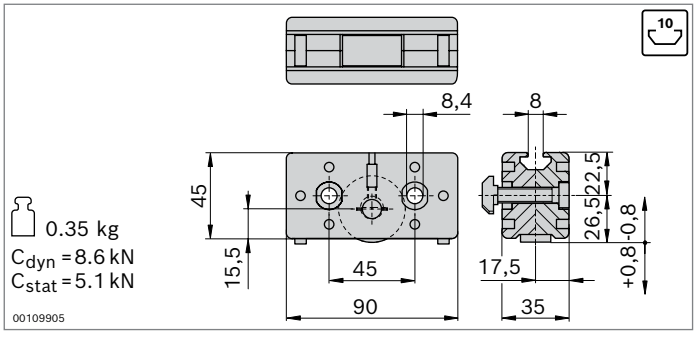
| | |
|---|---|
| Material: | Housing: Diecast aluminum<br>Cam roller: Steel, hardened, polished |
| Scope of delivery: | Incl. fastening material (FS) |
| Condition on delivery: | Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226** |

**FS1**

DIN 7984
M8x40

**FS2**

ø10xø5x11




- 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<br>4xFS2 |

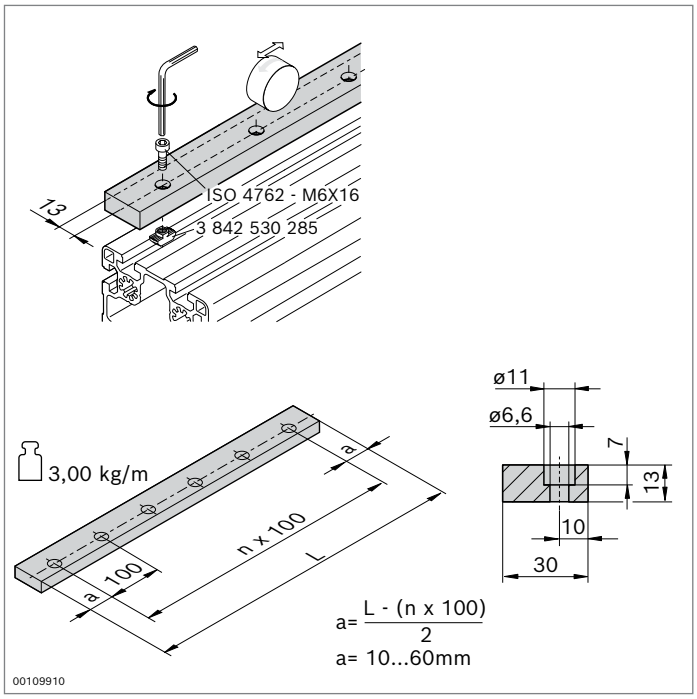
| | |
|---|---|
| Material: | Housing: Diecast aluminum<br>Cam roller: Steel, hardened, polished |
| Scope of delivery: | Incl. fastening material (FS) |
| Condition on delivery: | Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226** |

**FS3**

DIN 7984
M8x40

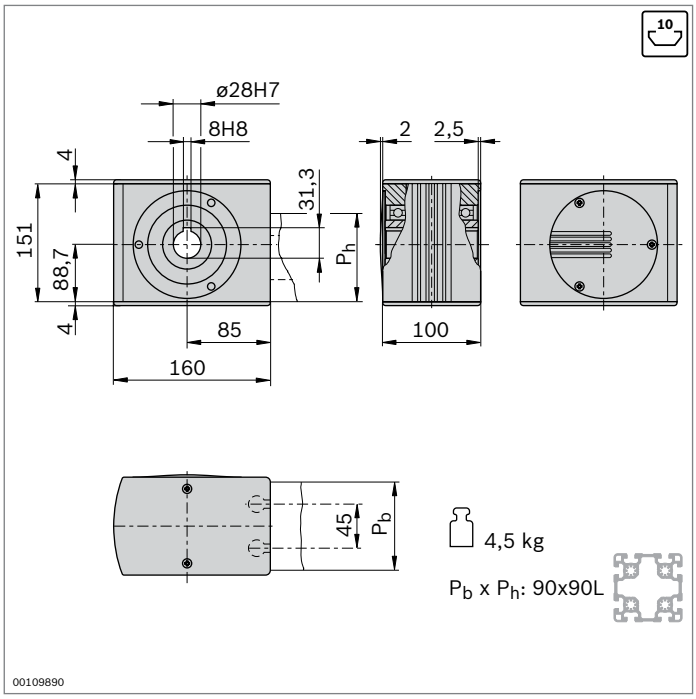
**FS2**

ø10xø5x11




▶ Guide rail to hold supporting bearings

| **Guide rail** | **L** (mm) | **No.** |
|---|---|---|
| **LF12** | 120 ... 2000 | **3 842 994 702 / L** |
| Material: | Steel, hardened, polished | |
| Condition on delivery: | Ungreased; greasing according to assembly instructions **3 842 527 226** | |
| Accessories: | Cylinder head screw ISO 4762 – M6x16<br>T-nut M6, 10 mm slot (**3 842 530 285)** | |



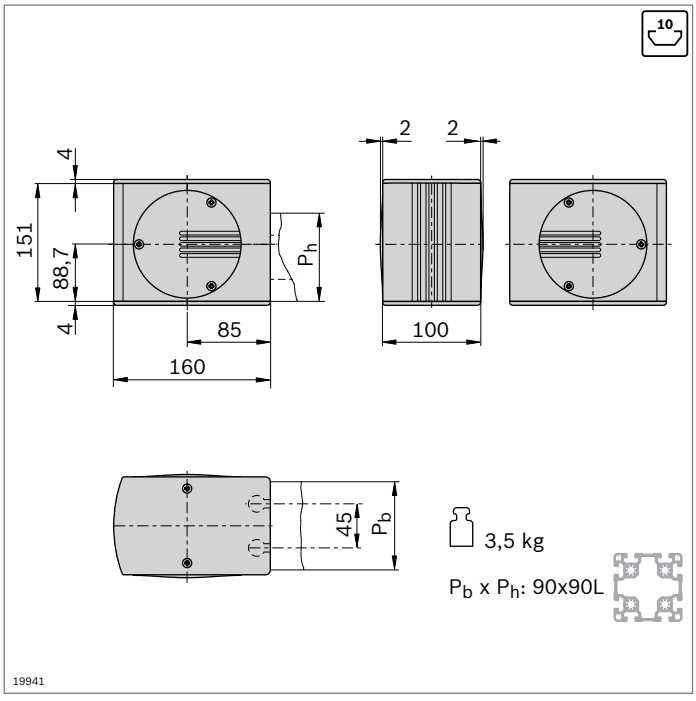

- Drive head for transferring drive torque to a toothed belt
- For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-41)
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- 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<br>Cover caps: PA; black<br>Hollow shaft: Steel; zinc-plated |
| Scope of delivery: | Incl. Fastening material (FS), cover caps |

**FS4**
ISO 7380
M8x40

**FS5**
ISO 4035
M8-04



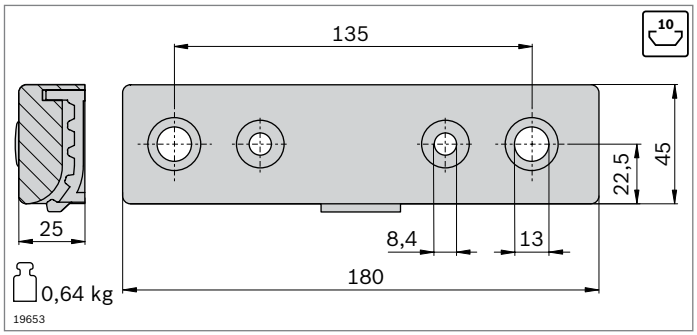

- Return head for tensioning the toothed belt and changing its direction
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile finishing: LF blind hole drilling for longitudinal end connector

| Return head | No. | FS |
|---|---|---|
| **LF12S** | **3 842 526 413** | 2xFS4, 2xFS5 |

| | |
|---|---|
| Material: | Aluminum; anodized<br>Hollow shaft: Steel; zinc-plated<br>Cover caps: PA; black |
| Scope of delivery: | Incl. Fastening material (FS), cover caps |

**FS4**
ISO 7380
M8x40

**FS5**
ISO 4035
M8-04




- 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 |
|---|---|---|---|
| **LF12** | 2 | **3 842 535 680** | 4xFS2, 2xFS6, 2xFS7, 2xFS8, 2xFS9 |

Material: Aluminum, painted black
Scope of delivery: Incl. fastening material (FS)

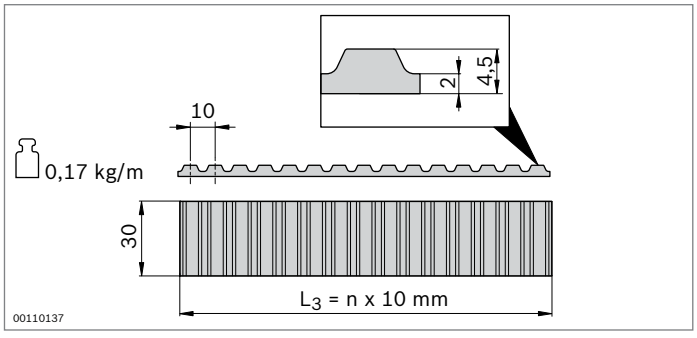
**FS2**
ø10xø5x11

**FS6**
DIN7984
M12x40

**FS7**
DIN 7984
M8x30
DIN 125
A8,4
10

**FS8**
DIN 7991
M8x30
10

**FS9**
ø18x7

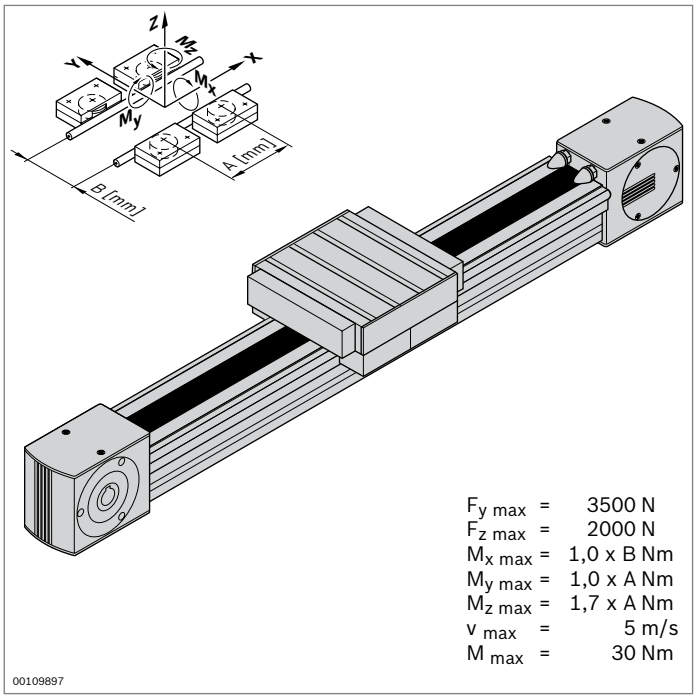



- Toothed belt as a trolley drive
- Pitch: AT10

| Toothed belt | $L_3$ (mm) | No. |
|---|---|---|
| **LF12** | 300 ... 50000 | **3 842 994 821 / $L_3$** [1] |
| | 50000 | **3 842 526 422** |

[1] $L_3 = 2xL_2 - L_1 + 630$
Material: PU with embedded steel wires

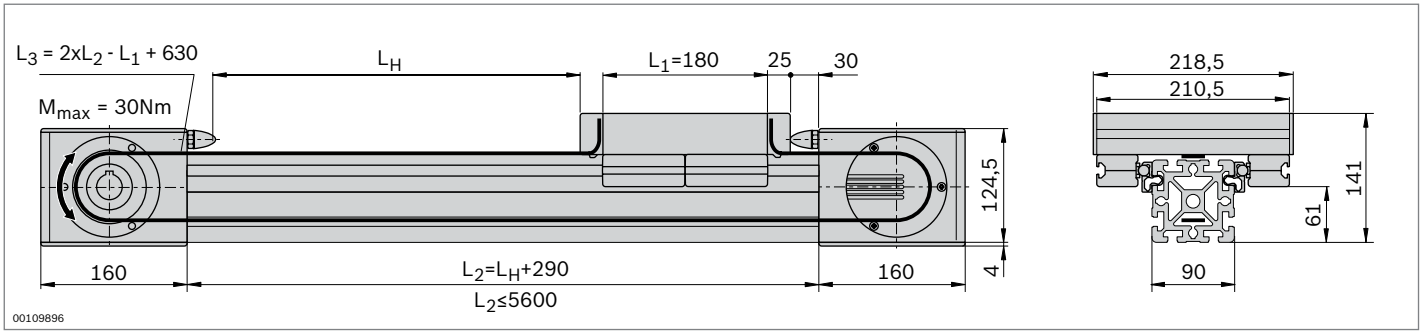
13




## Cam roller guide LF12C – complete axis

10

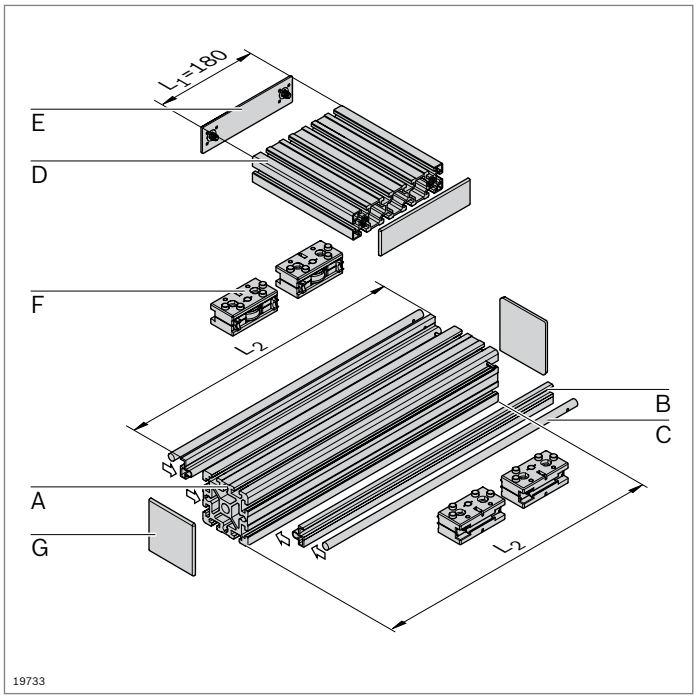
- Fully assembled cam roller guide
- Stroke can be individually selected
- Clamping profile clipped into strut profile 90x90
- Incl. toothed belt drive; additional notes on the drive concept (p. 13-39)




### 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 / $L_H$** |

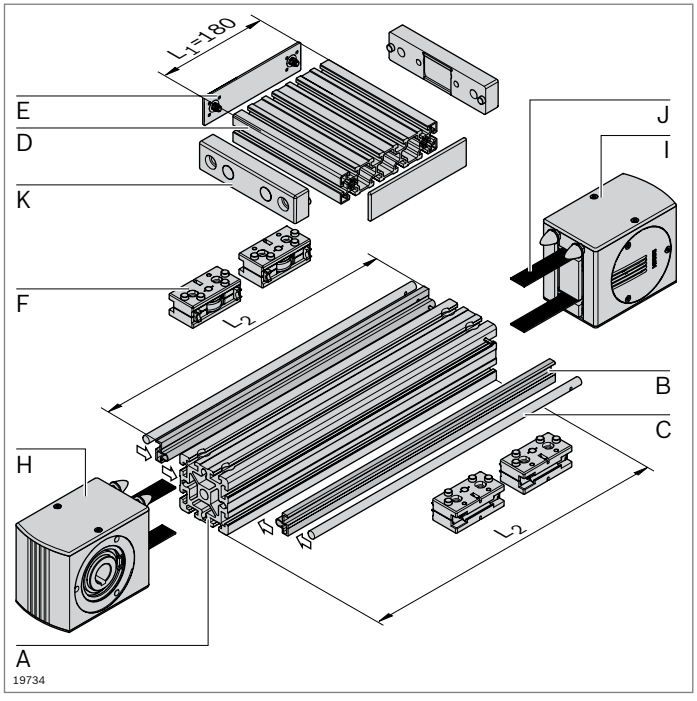



## Cam roller guide LF12C – components

- Components for the individual assembly of cam roller guides, with or without drive

### Parts list for cam roller guide LF12C without drive

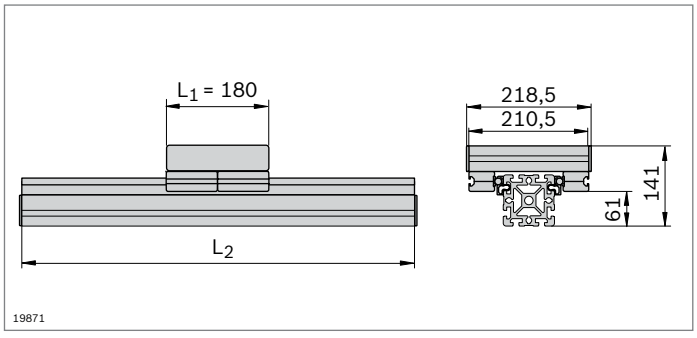
| Component | | No. | Pcs | Page |
|---|---|---|---|---|
| **A** | Profile 90x90 | **3 842 990 500 / $L_2$** | 1 | 2-49 |
| **B** | Clamping profile LF12C | **3 842 992 440 / $L_2$** | 2 | 13-20 |
| **C** | Guide rod LF12 | **3 842 993 968 / $L_2$** | 2 | 13-20 |
| **D** | Profile 45x180 | **3 842 990 335 / 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 |

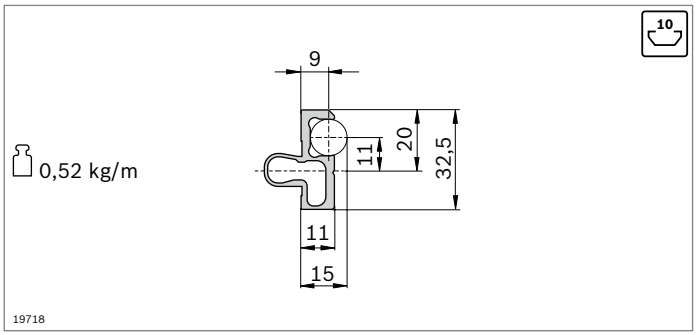



### Parts list for cam roller guide LF12C with drive

| Component | | No. | Pcs | Page |
|---|---|---|---|---|
| **A** | Profile 90x90 LF LF | **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 / $L_3$** [1)] | 1 | 13-24 |
| **K** | Belt connector LF12 | **3 842 535 680** | 2 | 13-24 |

[1)] $L_3 = 2xL_2 - L_1 + 630$

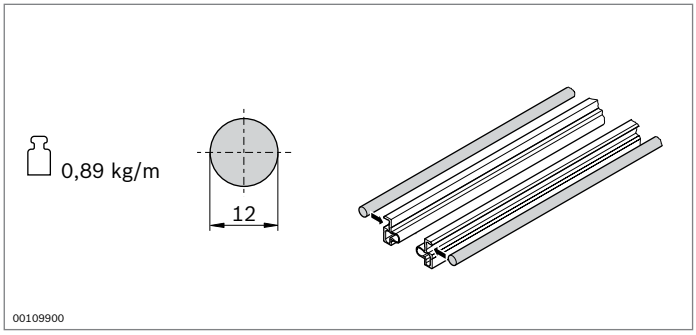





- The clamping profile is clipped into any chosen strut profile with a 10 mm slot and holds the guide rods

| Clamping profile | | $L_2$ (mm) | No. |
|---|---|---|---|
| **LF12C** | 1 pc | 150 ... 3000 | **3 842 992 440 / $L_2$** |
| | 20 pcs | 3000 | **3 842 518 897** |

Material: Aluminum; anodized

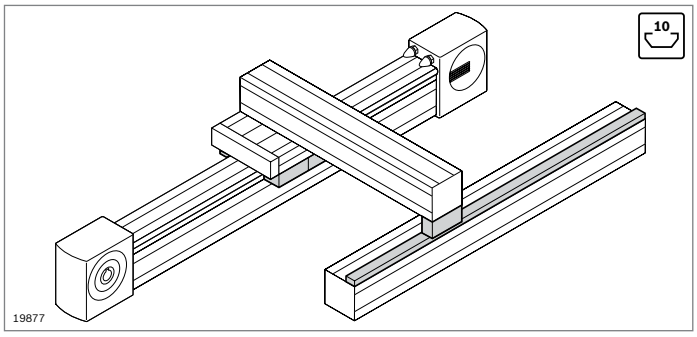



- The guide rod is pressed into the clamping profile
- The guide rod guides the guide bearing

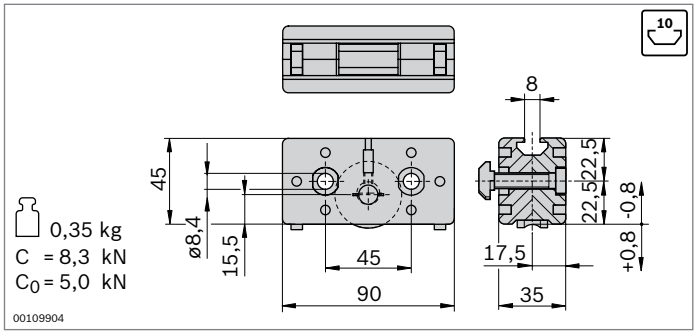
| Guide rod | $L_2$ (mm) | | No. |
|---|---|---|---|
| **LF12** | 150 ... 2900 | 1 | **3 842 993 968 / $L_2$** |
| | 2900 | 20 | **3 842 539 415** |

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<br>4xFS2 |

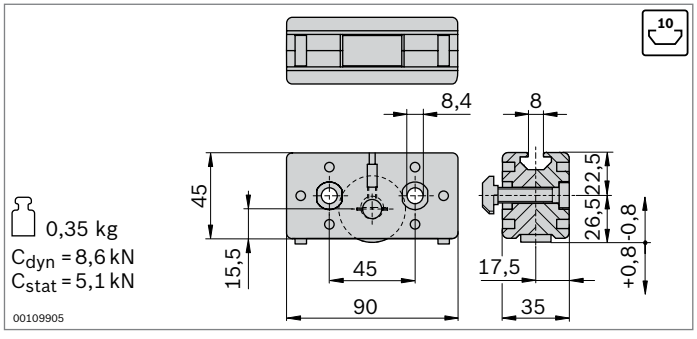
| | |
|---|---|
| Material: | Guide bearing: Diecast aluminum<br>Cam roller: Steel, hardened, polished |
| Scope of delivery: | Incl. fastening material (FS) |
| Condition on delivery: | Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226** |

**FS1**

DIN 7984
M8x40

**FS2**

ø10xø5x11




- 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<br>4xFS2 |

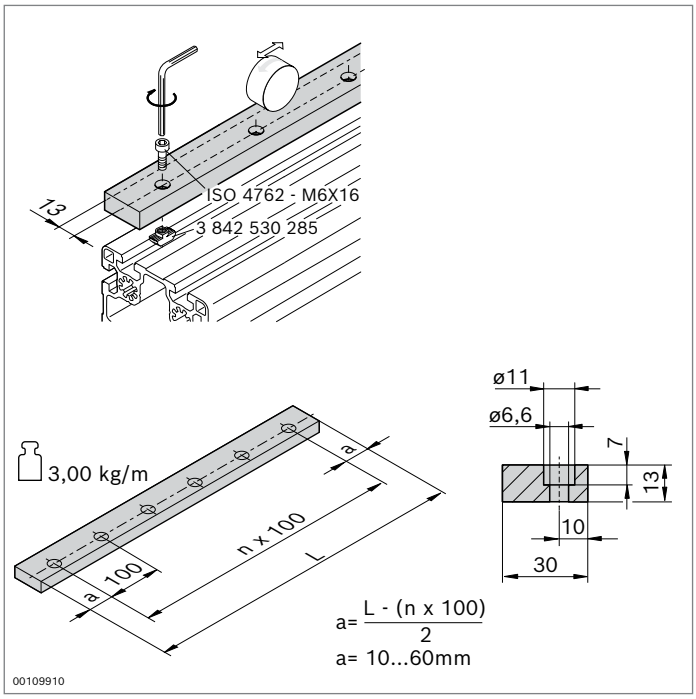
| | |
|---|---|
| Material: | Guide bearing: Diecast aluminum<br>Cam roller: Steel, hardened, polished |
| Scope of delivery: | Incl. fastening material (FS) |
| Condition on delivery: | Lubricating felts ungreased; greasing according to assembly instructions **3 842 527 226** |

**FS1**

DIN 7984
M8x40

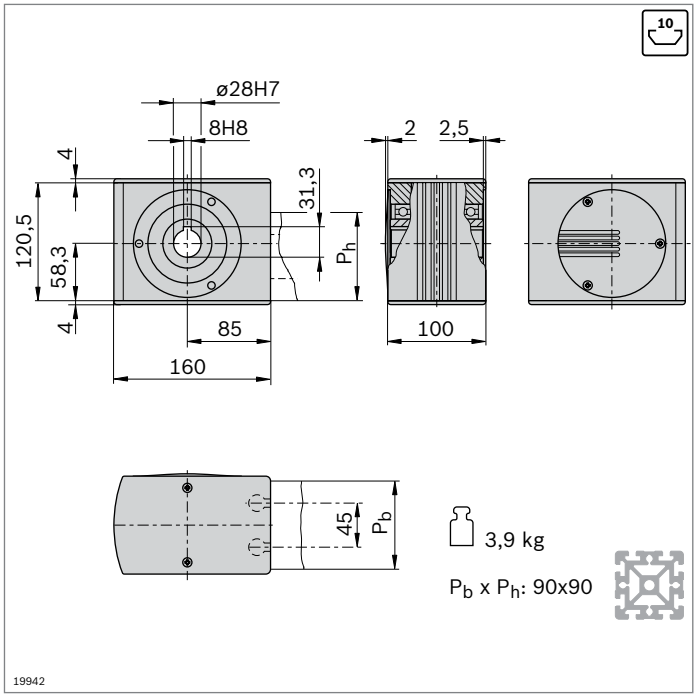
**FS2**

ø10xø5x11




▶ Guide rail to hold supporting bearings

| **Guide rail** | **L** (mm) | **No.** |
|---|---|---|
| **LF12** | 120 ... 2000 | **3 842 994 702 / L** |
| Material: | Steel, hardened, polished | |
| Condition on delivery: | Ungreased; greasing according to assembly instructions **3 842 527 226** | |
| Accessories: | Cylinder head screw ISO 4762 – M6x16<br>T-nut M6, 10 mm slot (**3 842 530 285**) | |



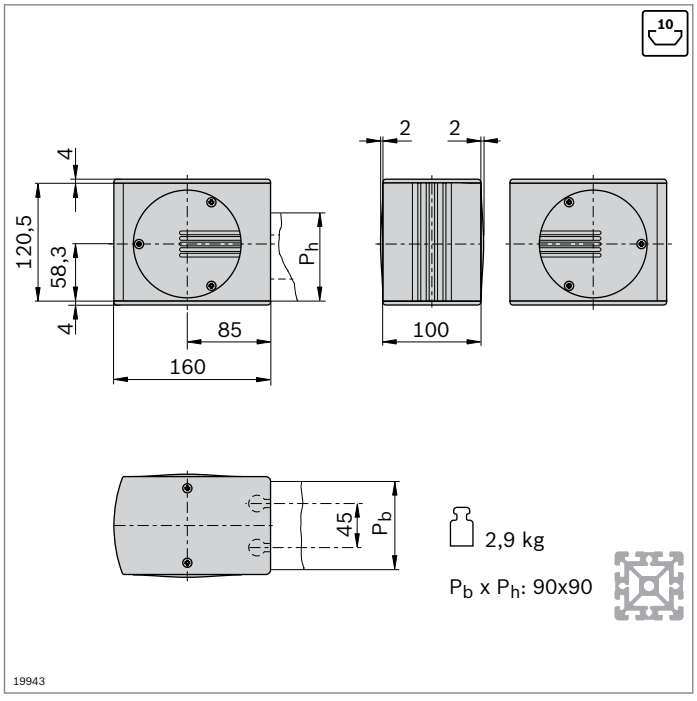

- Drive head for transferring drive torque to a toothed belt
- For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-41)
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile finishing: LF blind hole drilling for longitudinal end connector

| Drive head | No. | FS |
|---|---|---|
| **LF12C** | **3 842 526 863** | 4xFS3, 2xFS4 |

| | |
|---|---|
| Material: | Drive head: Aluminum; anodized<br>Hollow shaft: Steel; zinc-plated<br>Cover caps: PA; black |
| Scope of delivery: | Incl. fastening material (FS), cover caps |

**FS3**
ISO 7380
M8x40

**FS4**
ISO 4035
M8-04




- 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

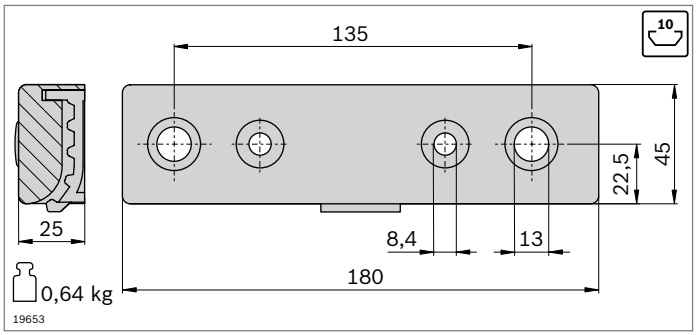
| Return head | No. | FS |
|---|---|---|
| **LF12C** | **3 842 526 865** | 4xFS3, 2xFS4 |

| | |
|---|---|
| Material: | Return head: Aluminum; anodized<br>Hollow shaft: Steel; zinc-plated<br>Cover caps: PA; black |
| Scope of delivery: | Incl. fastening material (FS), cover caps |

**FS3**
ISO 7380
M8x40

**FS4**
ISO 4035
M8-04

13




- 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 |
|---|---|---|---|
| **LF12** | 2 | **3 842 535 680** | 4xFS2, 2xFS5, 2xFS6, 2xFS7, 2xFS8 |

Material: Aluminum, painted black
Scope of delivery: Incl. fastening material (FS)

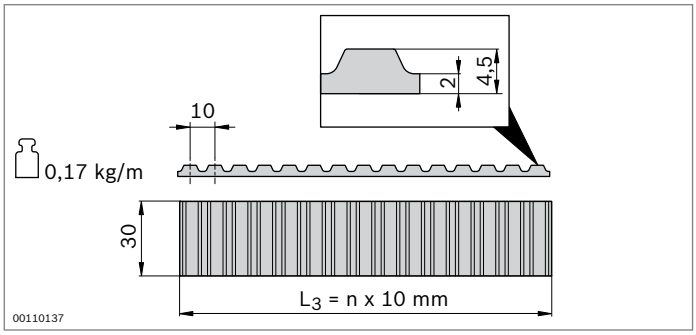
**FS2**
ø10xø5x11

**FS5**
DIN7984
M12x40

**FS6**
DIN 7984
M8x30
DIN EN ISO 7089
A8,4
10

**FS7**
DIN 7991
M8x30
10

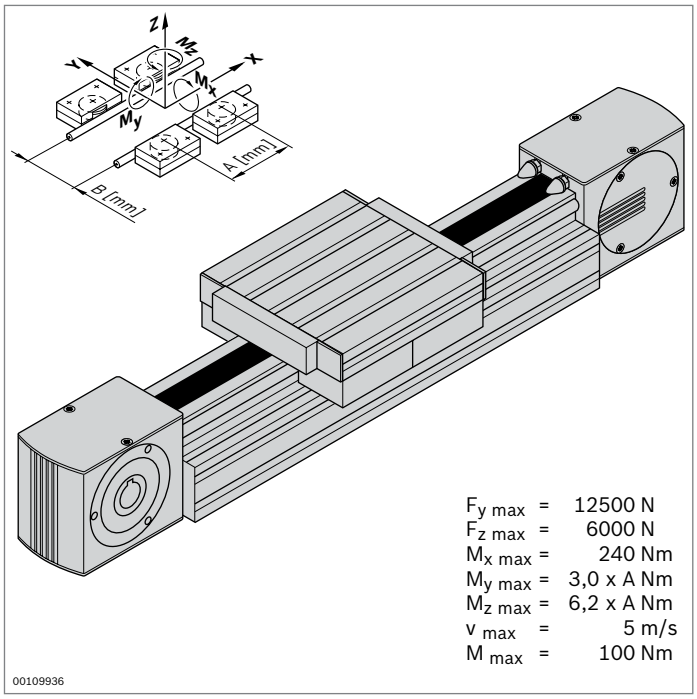
**FS8**
ø18x7




- Toothed belt as a trolley drive
- Pitch: AT10

| Toothed belt | $L_3$ (mm) | No. |
|---|---|---|
| **LF12** | 300 ... 50000 | **3 842 994 821 / $L_3$** [1] |
| | 50000 | **3 842 526 422** |

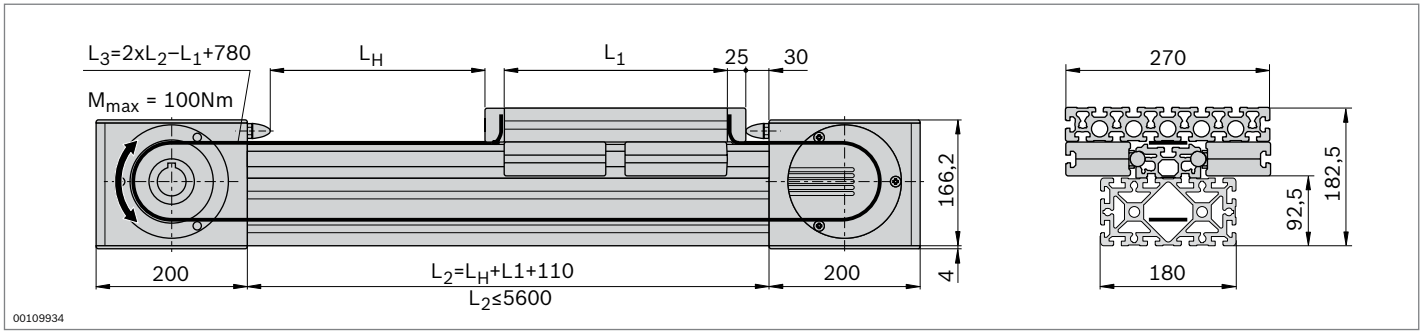
[1] $L_3 = 2xL_2 - L_1 + 630$
Material: PU with embedded steel wires




## Cam roller guide LF20S – complete axis

10

- 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)

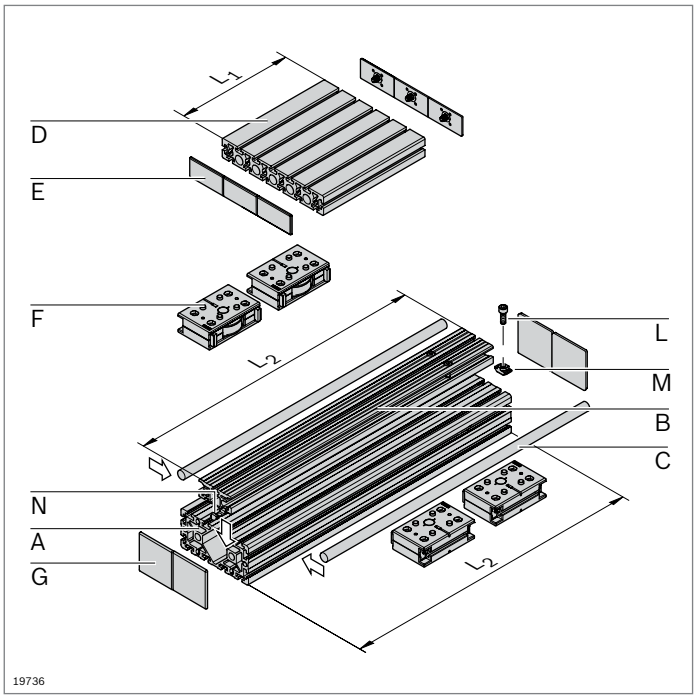


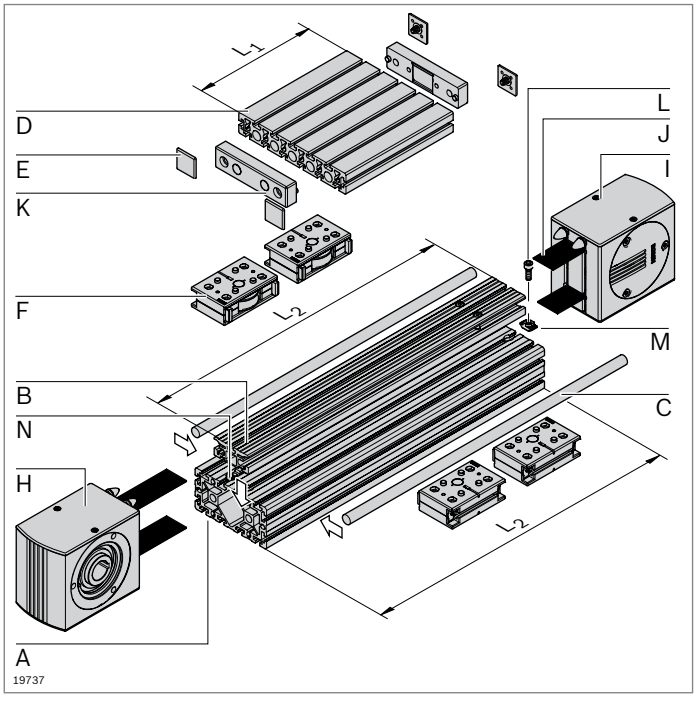

### Technical data

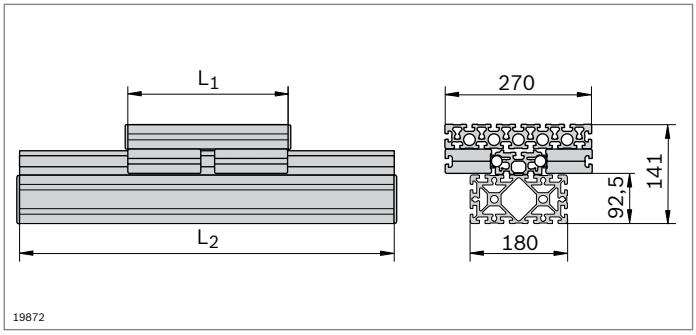
For notes on layout and drive, see page 13-45

| Complete axis | $L_H$ / $L_1$ (mm) | No. |
|---|---|---|
| **LF20S** | $L_1+50 \le L_H \le 5220$<br>$270 \le L_1 \le 1000$ | **3 842 998 499 / $L_H$ / $L_1$** |

13




## 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 |
|---|---|---|---|---|
| **A** | Profile 90x180 | **3 842 990 416 / $L_2$** | 1 | 2-51 |
| **B** | Guide profile LF20S | **3 842 993 080 / $L_2$** | 1 | 13-27 |
| **C** | Guide rod LF20 | **3 842 993 969 / $L_2$** | 2 | 13-27 |
| **D** | Profile 45x270 | **3 842 992 927 / $L_1$** | 1 | 2-47 |
| **E** | Cover cap 45x90 | **3 842 548 757** | 6 | 2-47 |
| **F** | Guide bearing LF20 | **3 842 535 663** | 4 | 13-28 |
| **G** | Cover cap 90x90 | **3 842 548 761** | 4 | 2-49 |
| **L** | Cylinder head screw DIN 7984 – M8x45 | | n[1)] | |
| **M** | T-nut M8, 10 mm slot | **3 842 530 287** | n[1)] | 3-4 |
| **N** | Sliding block | **3 842 146 877** | n[1)] | 13-27 |

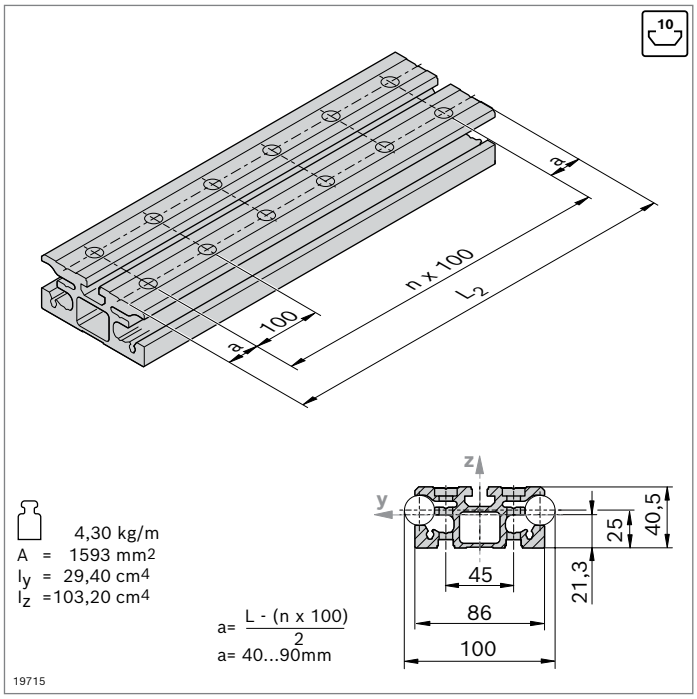
[1)] For identification see page 13-27

### Parts list for cam roller guide LF20S with drive

| Component | | No. | Pcs | Page |
|---|---|---|---|---|
| **A** | Profile 90x180 LF-S LF-S | **3 842 993 081 / $L_2$** | 1 | 2-51 |
| **B** | Guide profile LF20S | **3 842 993 080 / $L_2$** | 1 | 13-27 |
| **C** | Guide rod LF20 | **3 842 993 969 / $L_2$** | 2 | 13-27 |
| **D** | Profile 45x270 M12 M12 | **3 842 992 928 / $L_1$** | 1 | 2-47 |
| **E** | Cover cap 45x45 | **3 842 548 753** | 4 | 2-41 |
| **F** | Guide bearing LF20 | **3 842 535 663** | 4 | 13-28 |
| **H** | Drive head LF20S | **3 842 526 414** | 1 | 13-30 |
| **I** | Return head LF20S | **3 842 526 415** | 1 | 13-30 |
| **J** | Toothed belt LF20 | **3 842 994 662 / $L_3$[1)]** | 1 | 13-31 |
| **K** | Belt connector LF20 | **3 842 535 680** | 2 | 13-31 |
| **L** | Cylinder head screw DIN 7984 – M8x45 | | n[2)] | |
| **M** | T-nut M8, 10 mm slot | **3 842 530 287** | n[2)] | 3-4 |
| **N** | Sliding block | **3 842 146 877** | n[2)] | 13-27 |

[1)] $L_3 = 2xL_2 - L_1 + 780$

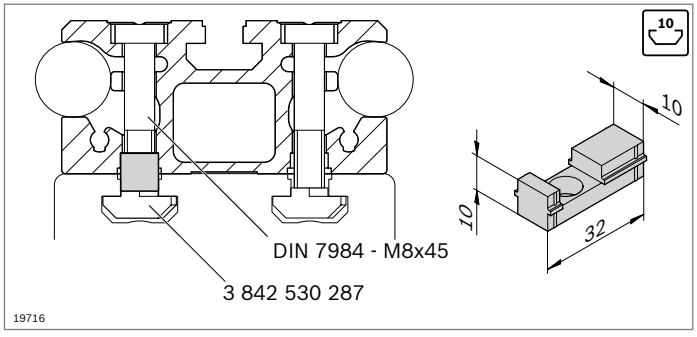
[2)] For identification see page 13-27




- 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 | **3 842 993 080 / $L_2$** |
| | 6 pcs | 6070 | **3 842 557 958** |

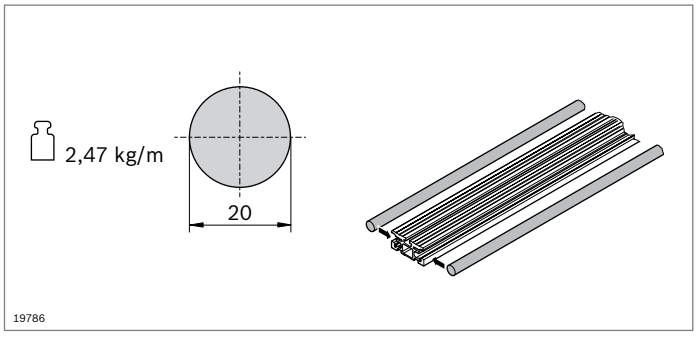
Accessories: Cylinder head screw DIN 7984 M8x45
T-nut M8, 10 mm slot (p. 3-4)
Sliding block




- Sliding block as a centering aid for mounting the guide profile in a 10 mm profile slot

| Sliding block | | No. |
|---|---|---|
| | 50 | **3 842 146 877** |

Material: PA; black

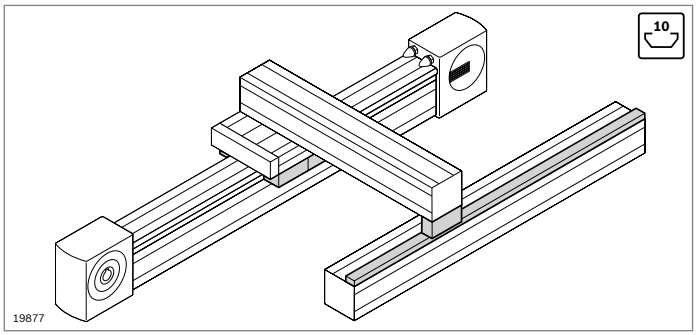



- The guide rod is pressed into the guide profile
- The guide rod guides the guide bearing

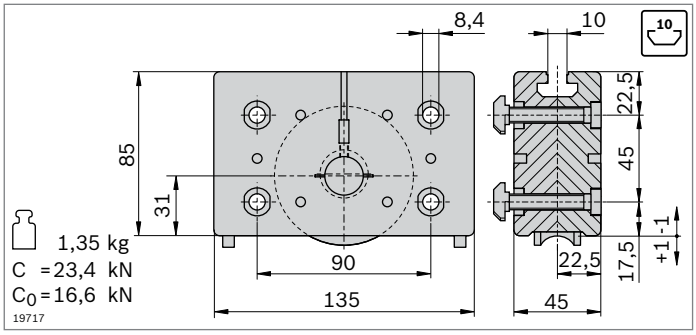
| Guide rod | $L_2$ (mm) | | No. |
|---|---|---|---|
| **LF20** | 150 ... 2900 | 1 | **3 842 993 969 / $L_2$** |
| | 2900 | 20 | **3 842 539 416** |

Material: Solid shaft VA, induction hardened, polished
Condition on delivery: Ungreased; greasing according to assembly instructions **3 842 527 226**

13




- Guide bearing for trolley construction
- Supporting bearing for brackets for bearing off-center forces
- Guide rail to support supporting bearings (p. 13-29)



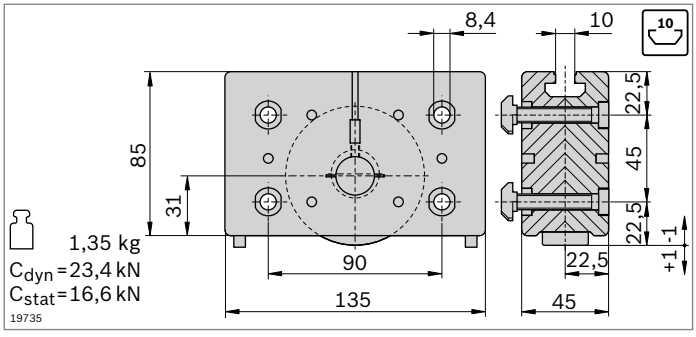

- Guide bearing for trolley construction
- Guiding via guide rod
- Cam rollers with ball bearings, permanently lubricated
- Lubricating felts with guide rod lubrication reservoir
- Play-free cam roller adjustment via eccentric bolts
- Replacement of the lubricating felts possible from rear in installed state

**FS1**
DIN 7984
M8x50
10

**FS2**
ø10xø5x11

| Guide bearing | | No. | FS |
|---|---|---|---|
| **LF20** | 2 | **3 842 535 663** | 4xFS1<br>4xFS2 |

| | |
|---|---|
| Material: | Housing: Diecast aluminum<br>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** |



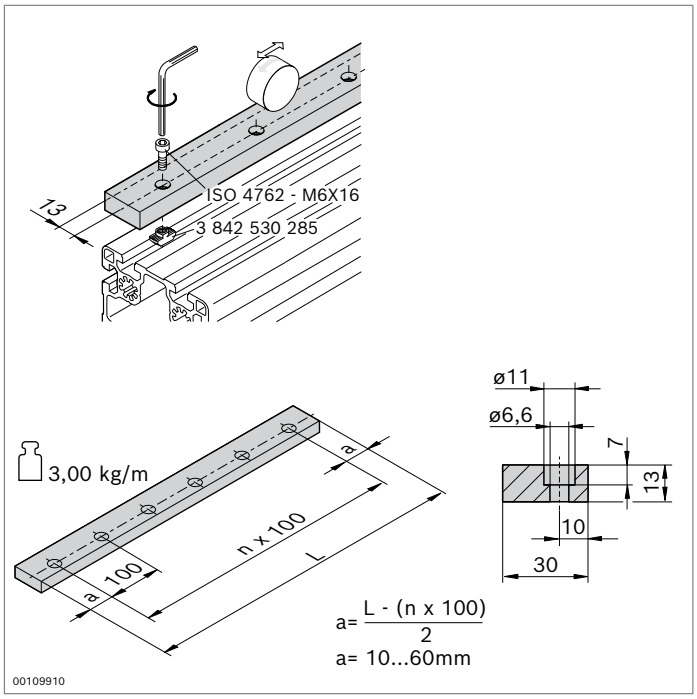

- Supporting bearing for brackets for bearing off-center forces
- For support on the guide rail
- Cam rollers with ball bearings, permanently lubricated
- Lubricating felts with guide rod lubrication reservoir
- Play-free cam roller adjustment via eccentric bolts
- Replacement of the lubricating felts possible from rear in installed state

**FS1**
DIN 7984
M8x50
10

**FS2**
ø10xø5x11

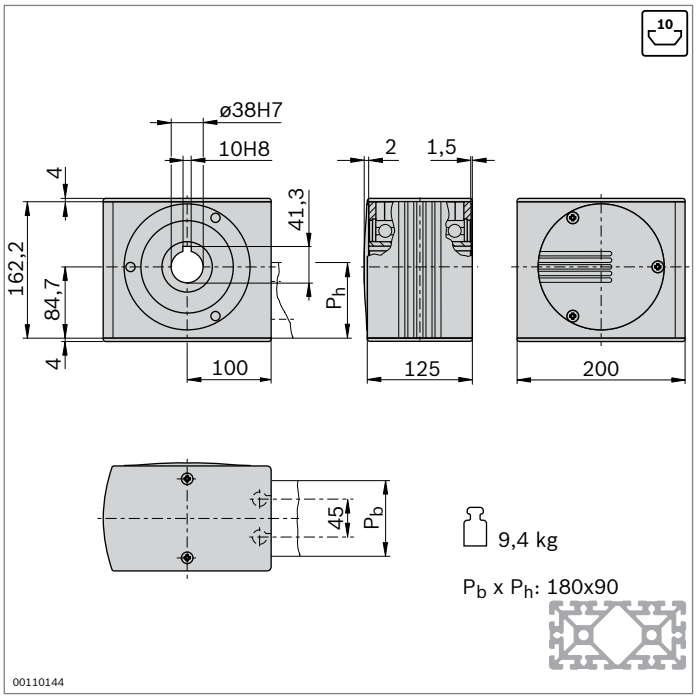
| Supporting bearing | | No. | FS |
|---|---|---|---|
| **LF20** | 2 | **3 842 535 665** | 4xFS1<br>4xFS2 |

| | |
|---|---|
| Material: | Housing: Diecast aluminum<br>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.** |
|---|---|---|
| **LF20** | 120 ... 2000 | **3 842 994 702 / L** |
| Material: | Steel, hardened, polished | |
| Condition on delivery: | Ungreased; greasing according to assembly instructions **3 842 527 226** | |
| Accessories: | Cylinder head screw ISO 4762 – M6x16<br>T-nut M6, 10 mm slot (**3 842 530 285**) | |



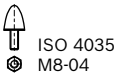

- Drive head for transferring drive torque to a toothed belt
- For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-41)
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile finishing: LF-S blind hole drilling for longitudinal end connector

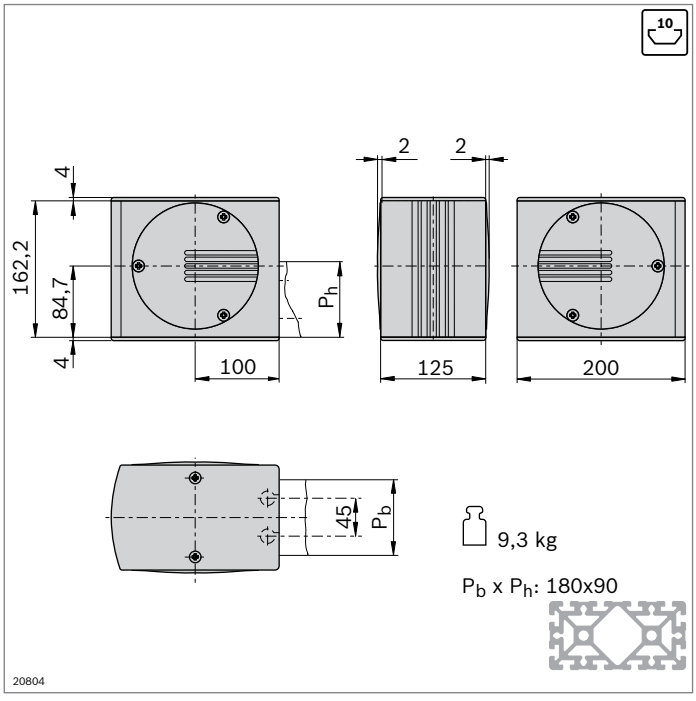
| Drive head | No. | FS |
|---|---|---|
| **LF20S** | **3 842 526 414** | 4xFS3, 2xFS4 |

| | |
|---|---|
| Material: | Drive head: Aluminum; anodized<br>Hollow shaft: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS), cover caps |

**FS3**



**FS4**


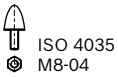

- Return head for tensioning the toothed belt and changing its direction
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile finishing: LF-S blind hole drilling for longitudinal end connector

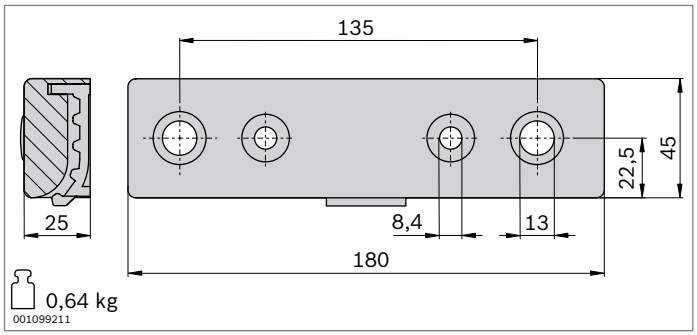
| Return head | No. | FS |
|---|---|---|
| **LF20S** | **3 842 526 415** | 4xFS3, 2xFS4 |

| | |
|---|---|
| Material: | Return head: Aluminum; anodized<br>Hollow shaft: Steel; zinc-plated<br>Cover caps: PA; black |
| Scope of delivery: | Incl. fastening material (FS), cover caps |

**FS3**



**FS4**





- 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)

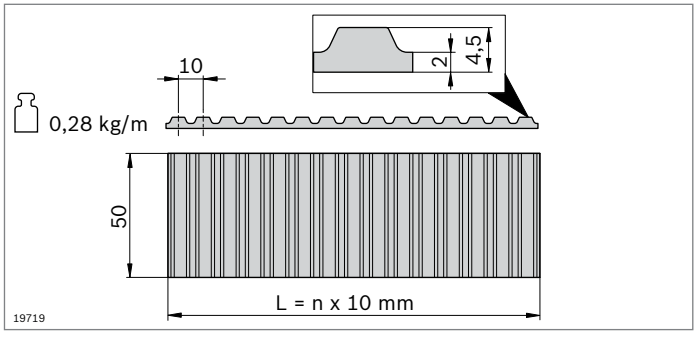
**FS2**
ø10xø5x11

**FS5**
DIN7984
M12x40

**FS6**
DIN 7984
M8x30
DIN EN ISO 7089
A8,4
10

**FS7**
DIN 7991
M8x30
10

**FS8**
ø18x7

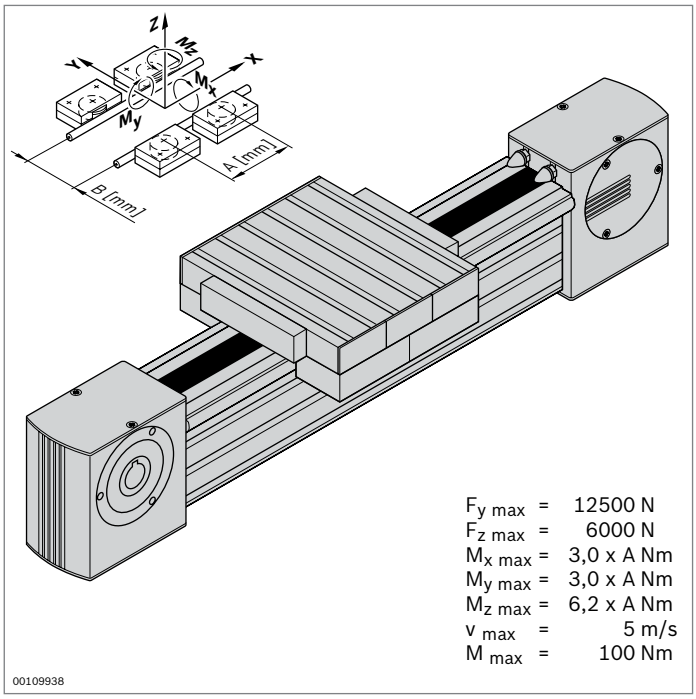



- Toothed belt as a trolley drive
- Pitch: AT10

| Toothed belt | $L_3$ (mm) | No. |
|---|---|---|
| **LF20** | 300 ... 50000 | **3 842 994 662 / $L_3$**[1)] |
| | 50000 | **3 842 513 648** |

[1)] $L_3 = 2xL_2 - L_1 + 780$
Material: PU with embedded steel wires

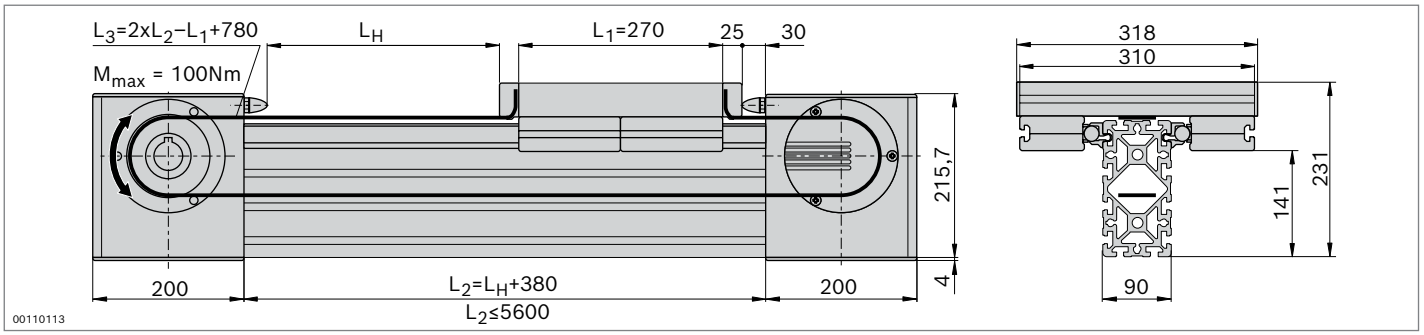
13




## Cam roller guide LF20C – complete axis

10

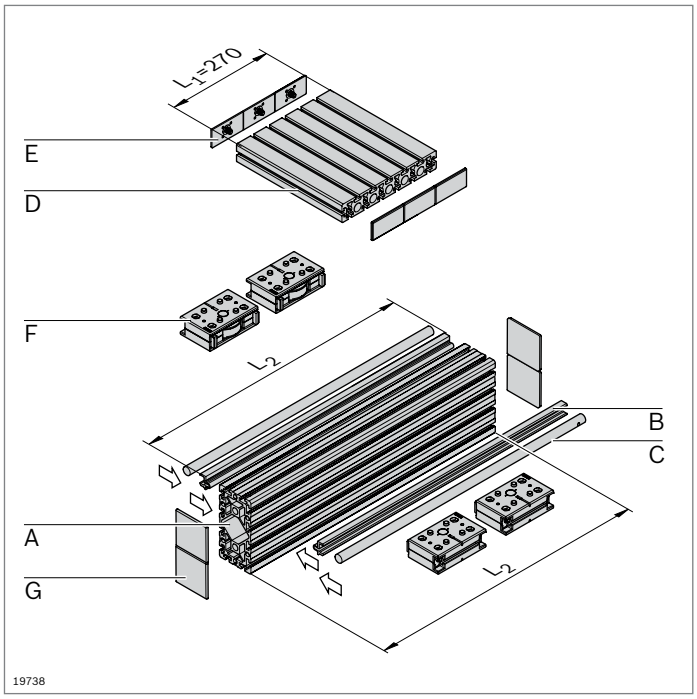
- Fully assembled cam roller guide
- Stroke can be individually selected
- Clamping profile clipped into strut profile 90x180
- Incl. toothed belt drive; additional notes on the drive concept (p. 13-39)




### 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 / $L_H$** |

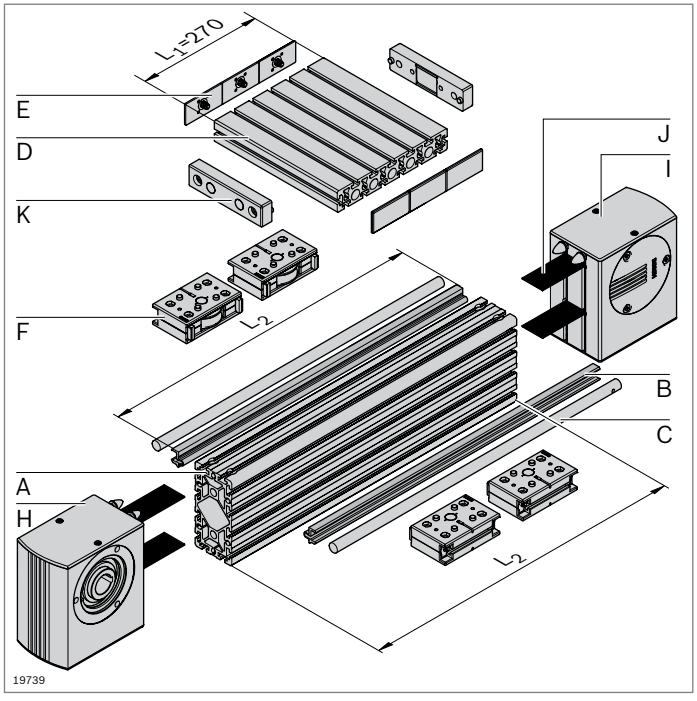



## Cam roller guide LF20C – components

- Components for the individual assembly of cam roller guides, with or without drive

### Parts list for cam roller guide LF20C without drive

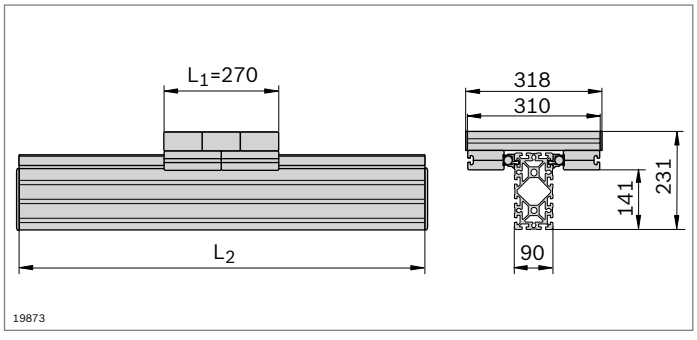
| Component | | No. | Pcs | Page |
|---|---|---|---|---|
| **A** | Profile 90x180 | **3 842 990 416 / $L_2$** | 1 | 2-51 |
| **B** | Clamping profile LF20C | **3 842 992 441 / $L_2$** | 2 | 13-34 |
| **C** | Guide rod LF20 | **3 842 993 969 / $L_2$** | 2 | 13-34 |
| **D** | Profile 45x270 | **3 842 992 927 / 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 |

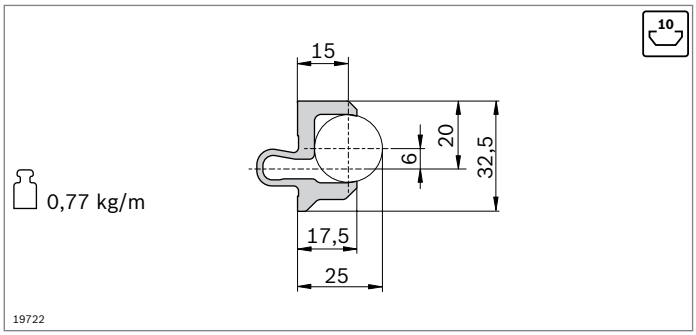



### Parts list for cam roller guide LF20C with drive

| Component | | No. | Pcs | Page |
|---|---|---|---|---|
| **A** | Profile 90x180 LF 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 / $L_3$**[1)] | 1 | 13-38 |
| **K** | Belt connector | **3 842 535 680** | 2 | 13-38 |

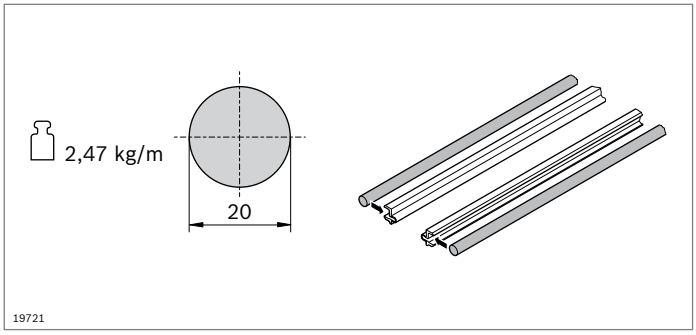
[1)] $L_3 = 2xL_2 - L_1 + 780$





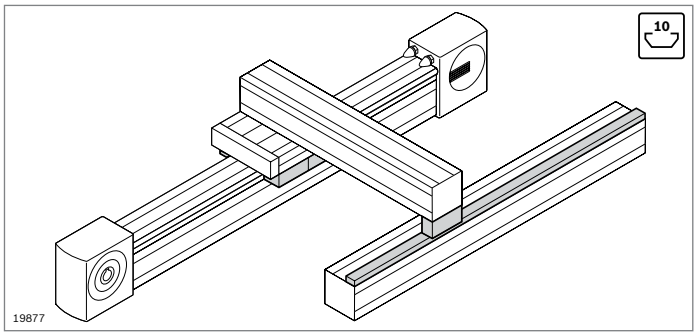

- The clamping profile is clipped into any chosen 10 mm strut profile slot and holds the guide rods

| **Clamping profile** | | **L** (mm) | **No.** |
|---|---|---|---|
| **LF20C** | 1 pc | 150 ... 3000 | **3 842 992 441 / L** |
| | 20 pcs | 3000 | **3 842 518 898** |
| Material: | Aluminum; anodized | | |

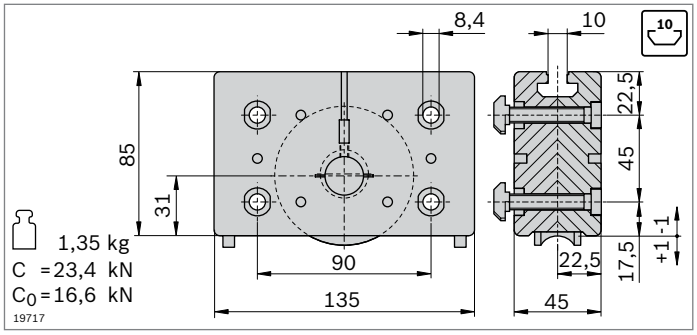



- The guide rod is pressed into the clamping profile
- The guide rod guides the guide bearing

| **Guide rod** | **L** (mm) | | **No.** |
|---|---|---|---|
| **LF20** | 150 ... 2900 | 1 | **3 842 993 969 / L** |
| | 2900 | 20 | **3 842 539 416** |
| 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)



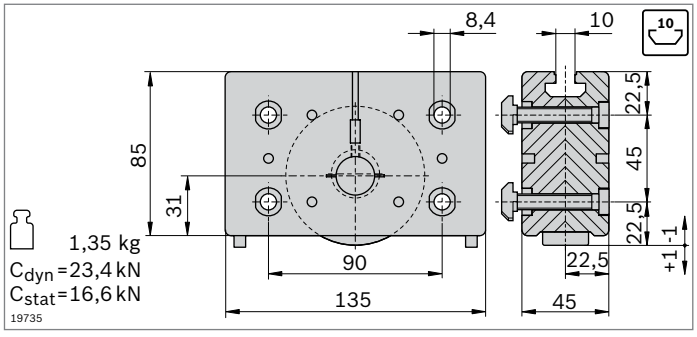

**FS1**
DIN 7984
M8x50

**FS2**
ø10xø5x11

- 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<br>4xFS2 |

| | |
|---|---|
| Material: | Housing: Diecast aluminum<br>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** |



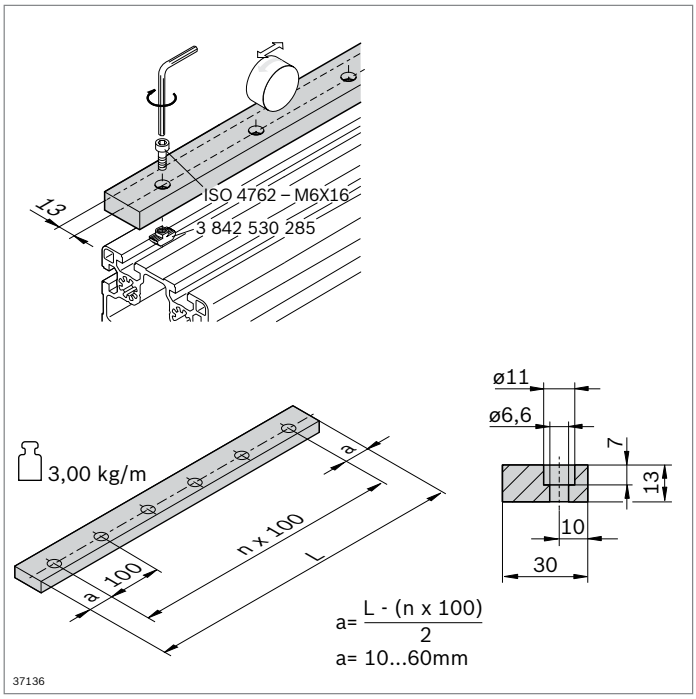

**FS1**
DIN 7984
M8x50

**FS2**
ø10xø5x11

- 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

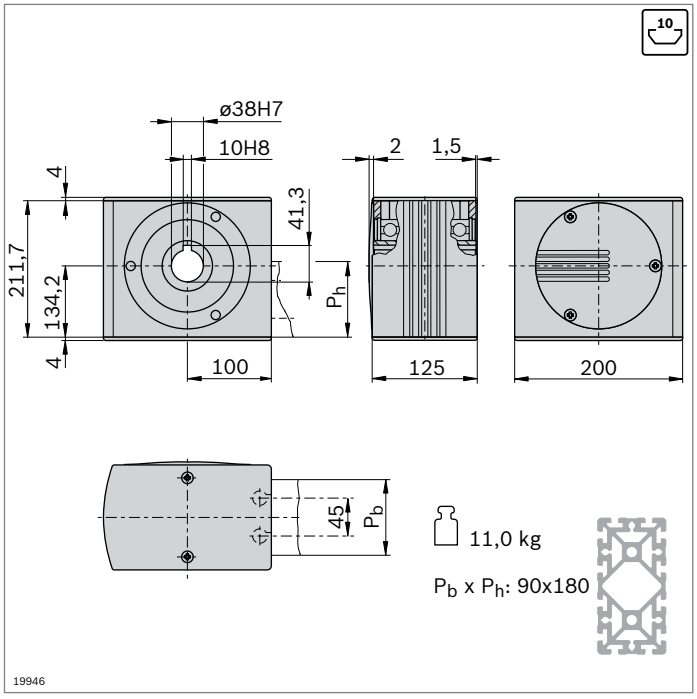
| Supporting bearing | | No. | FS |
|---|---|---|---|
| **LF20** | 2 | **3 842 535 665** | 4xFS1<br>4xFS2 |

| | |
|---|---|
| Material: | Housing: Diecast aluminum<br>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.** |
|---|---|---|
| **LF20** | 120 ... 2000 | **3 842 994 702 / L** |
| Material: | Steel, hardened, polished | |
| Accessories: | Cylinder head screw ISO 4762 – M6x16<br>T-nut M6, 10 mm slot (**3 842 530 285**) | |
| Condition on delivery: | Ungreased; greasing according to assembly instructions **3 842 527 226** | |



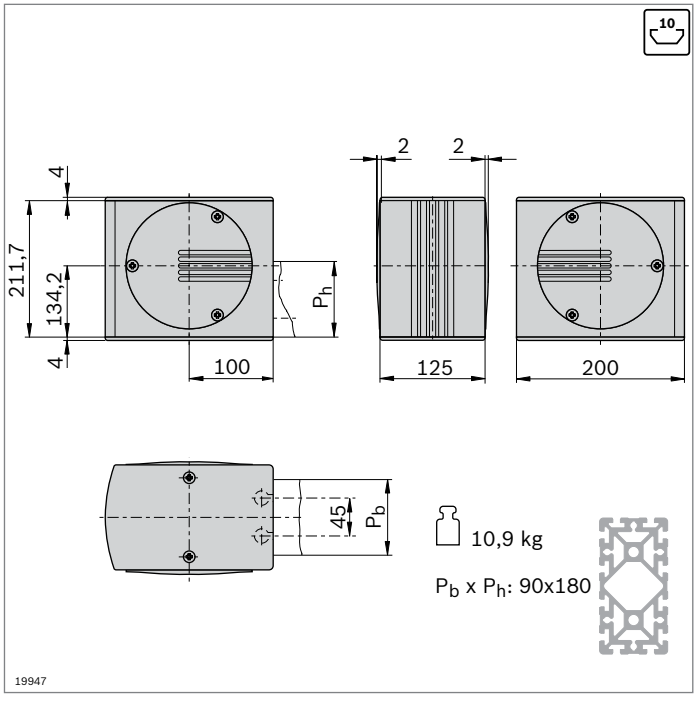

- Drive head for transferring drive torque to a toothed belt
- For direct mounting of a motor or (in conjunction with a plug-in shaft) for mounting a hollow shaft gear or a coupling (p. 13-41)
- Mounted directly on profile by using longitudinal end connector (connector included in scope of delivery)
- Profile finishing: LF blind hole drilling for longitudinal end connector

| Drive head | No. | FS |
|---|---|---|
| **LF20C** | **3 842 526 867** | 4xFS3, 2xFS4 |

| | |
|---|---|
| Material: | Drive head: Aluminum; anodized<br>Hollow shaft: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS), cover caps |

**FS3**
ISO 7380
M8x40

**FS4**
ISO 4035
M8-04




- 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

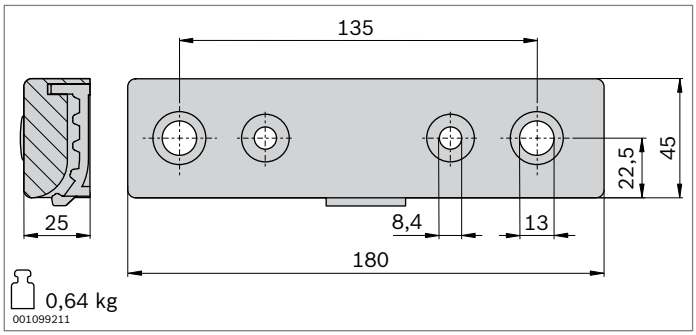
| Return head | No. | FS |
|---|---|---|
| **LF20C** | **3 842 526 869** | 4xFS3, 2xFS4 |

| | |
|---|---|
| Material: | Return head: Aluminum; anodized<br>Hollow shaft: Steel; zinc-plated<br>Cover caps: PA; black |
| Scope of delivery: | Incl. fastening material (FS), cover caps |

**FS3**
ISO 7380
M8x40

**FS4**
ISO 4035
M8-04

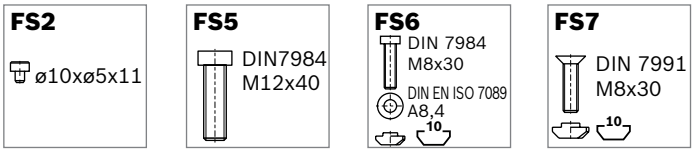
13

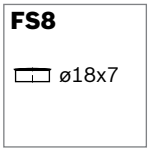


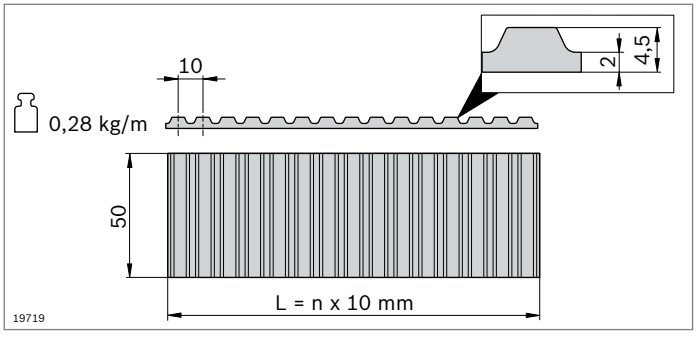

- Belt connector for fastening the toothed belt to the trolley slot
- Profile finishing for strut profile 45x270 for trolley LF20S: M12
- All connecting parts included for mounting at the profile end (LF20S) or the slot (LF20C)

| 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)



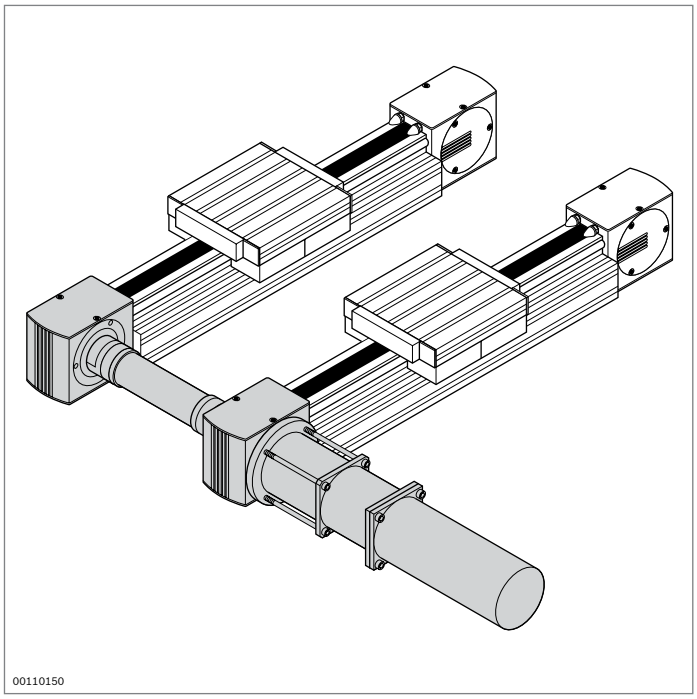




- Toothed belt as a trolley drive
- Pitch: AT10

| Toothed belt | L (mm) | No. |
|---|---|---|
| **LF20** | 300 ... 50000 | **3 842 994 662 / $L_3$**[1)] |
| | 50000 | **3 842 513 648** |

[1)] $L_3 = 2xL_2 - L_1 + 780$
Material: PU with embedded steel wires

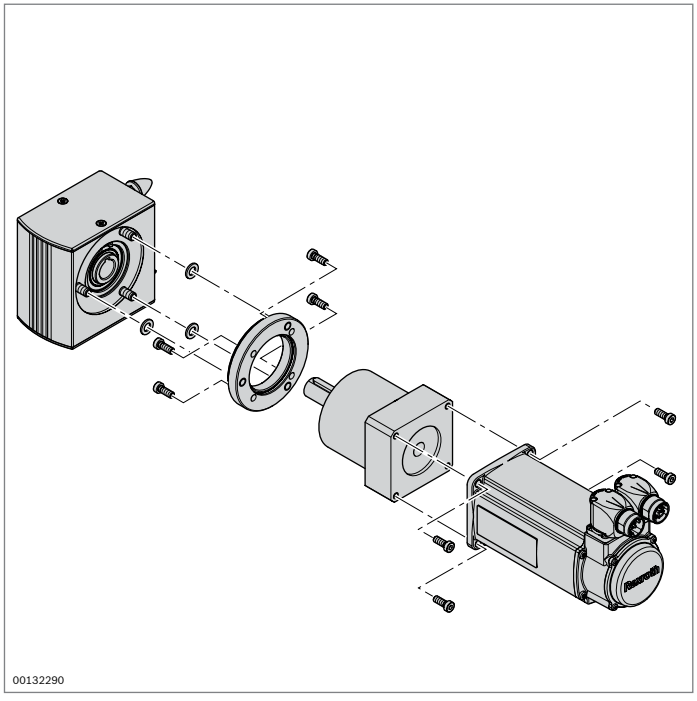



## Linear guide drives

### 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

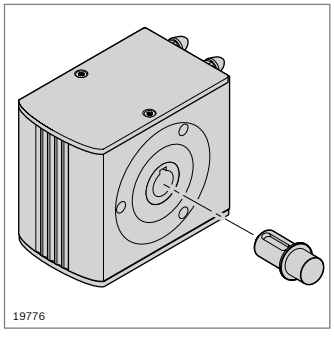
The drive head is directly secured on the profile by means of longitudinal end connectors.
The motor, or the intermediate gear flange, can be screwed to the drive head as a complete unit from the left- or right-hand side.

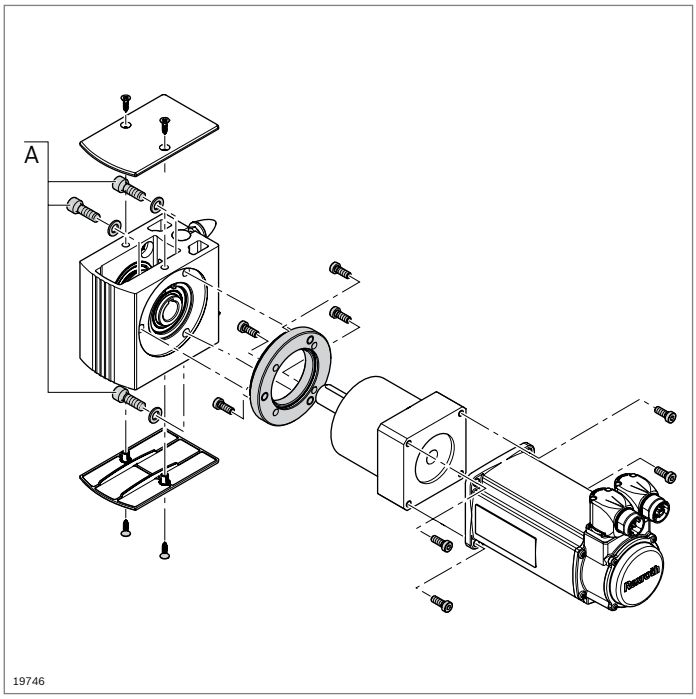
### Synchronous shafts

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

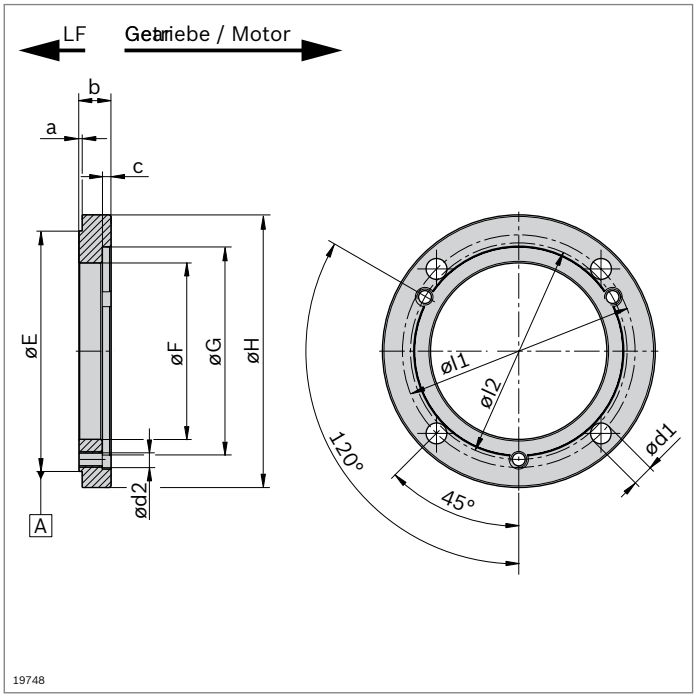
A flange is generally required for fixing the motor/gear unit in place. The connection dimensions for connection to the drive head are shown below. The connection to the motor/ gear unit depends on the model chosen in each case.

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 4762 – M8x25 (3x) | ISO 4762 – M10x30 (3x) |
| | ISO 7092 – 8 (3x) | ISO 7092 – 8 (3x) | ISO 7092 – 10 (3x) |

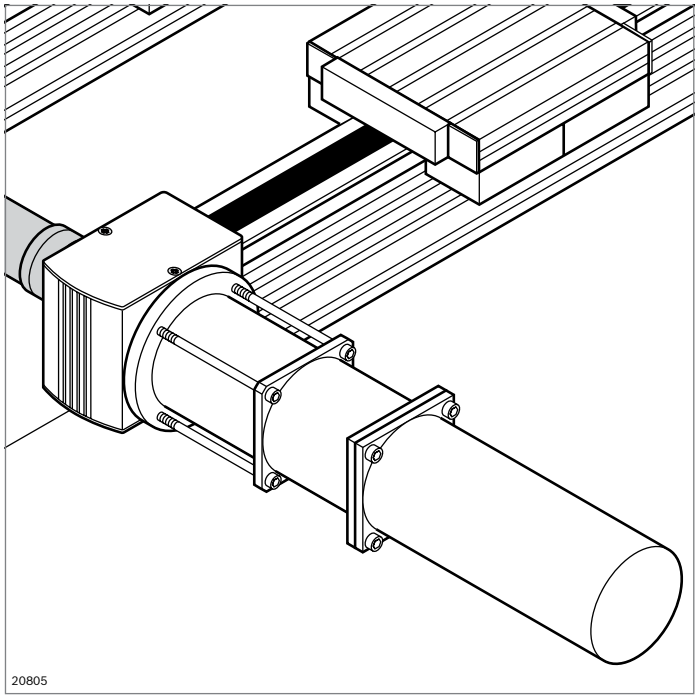


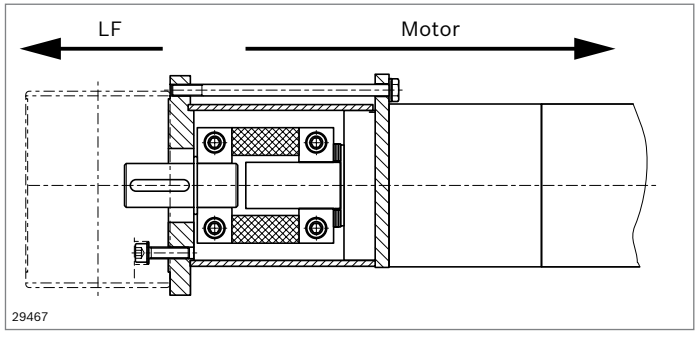

Drawing and dimensions for flange in self-build version. Customer-specific adjustment is necessary, depending on the motor and gear unit. The fastening material must be self-sourced.

**Flange**

| Dimension parameter | | | | LF6 (mm) | LF12 (mm) | LF20 (mm) |
|---|---|---|---|---|---|---|
| a | | | | 3.5 ± 0.15 | 3.5 ± 0.15 | 2 ± 0.15 |
| $b_{min}$ *) | // | 0.05 | | *) | *) | *) |
| c*) | | | | *) | *) | *) |
| E | A | | | Ø 88 -0.1/-0.3 | Ø 111 -0.1/-0.3 | Ø 150 -0.1/-0.3 |
| $F_{min}$ *) | | | | Ø *) | Ø *) | Ø *) |
| G*) | ◎ | 0.05 | A | Ø *) | 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 |

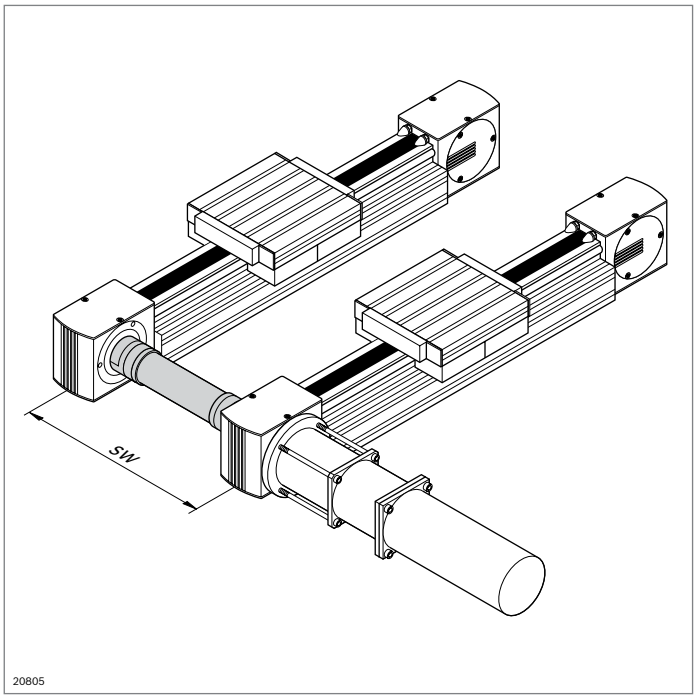
*) Dimension according to customer drive.
**Notice:** The values must be checked by the user.




## 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

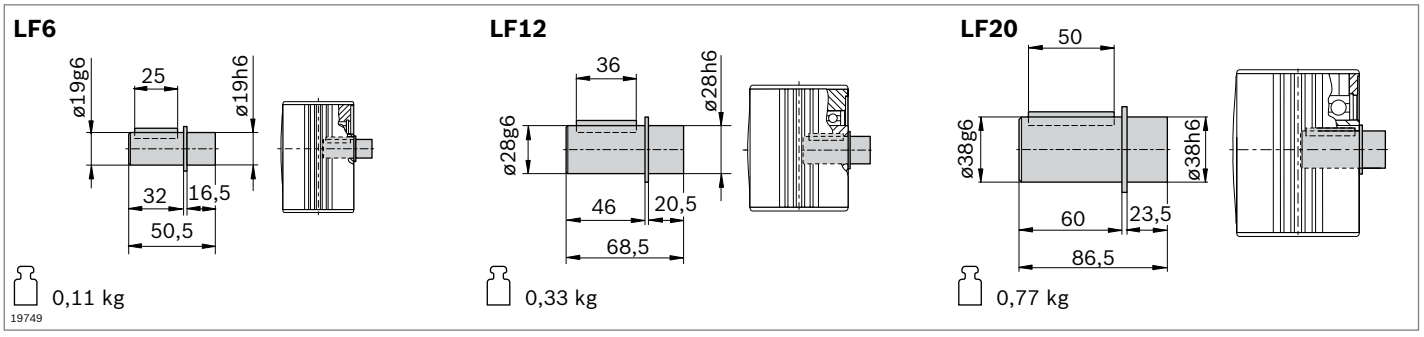
### Plug-in shafts

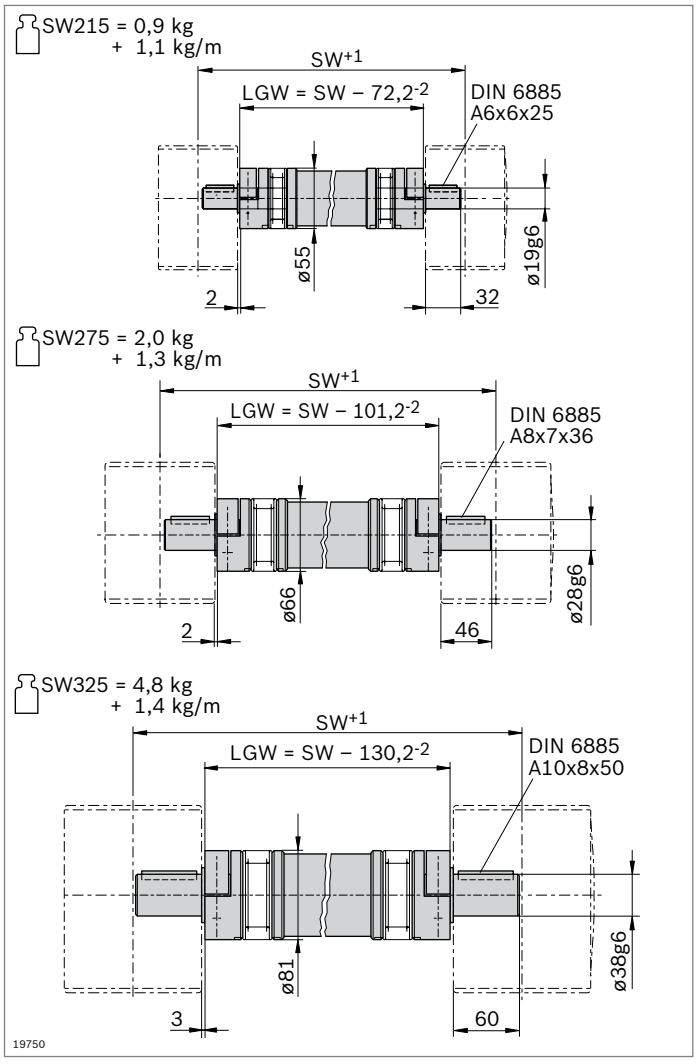
- Enable the installation of customized drive solutions

| 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






SW = support separation
LGW = length of synchronous shaft

**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

## Technical data for roller, design, mounting

### General technical data and calculations

**Speed**

$v_{max} = 5$ m/s

**Acceleration**

$a_{max} = 15$ m/s²

**Temperature resistance**

$-10\ °C < \vartheta < 40\ °C$

**Lubrication**

All cam roller guide bearings are delivered with built-in lubricating felts.

**Condition on delivery**

Ungreased (greasing with Klüber Isoflex Topas NCA 52; see assembly instructions **3 842 527 226**)
Lubricating felts with reservoir are not greased.
Guide rods are ungreased.

**Definition of dynamic load rating C**

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).

**Note regarding maximum load $F_{max}$**

The maximum loads apply to individual loads. Combining loads decreases the expected service life.

**Definition and calculation of the nominal service life**

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.

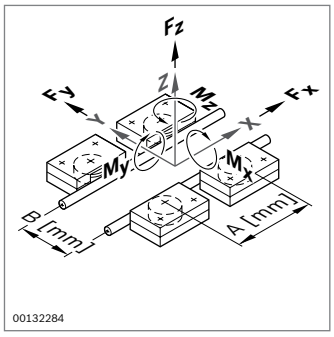
**Nominal service life at constant speed**

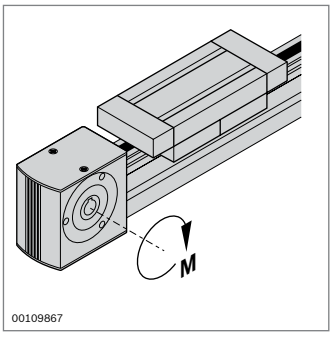
$$L = \left(\frac{C}{F}\right)^3 10^5$$

$$L_h = \left(\frac{L}{2 \cdot s \cdot n_s \cdot 60}\right)$$

L = nominal service life (m)
$L_h$ = nominal service life (h)
C = dynamic load capacity (N)
F = equivalent load (N)
s = length of stroke* (m)
$n_S$ = stroke frequency (double stroke) (rpm)

*) For $s < 2 \cdot L_1$ (trolley length) load capacities are reduced.
Please consult us.




## 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.

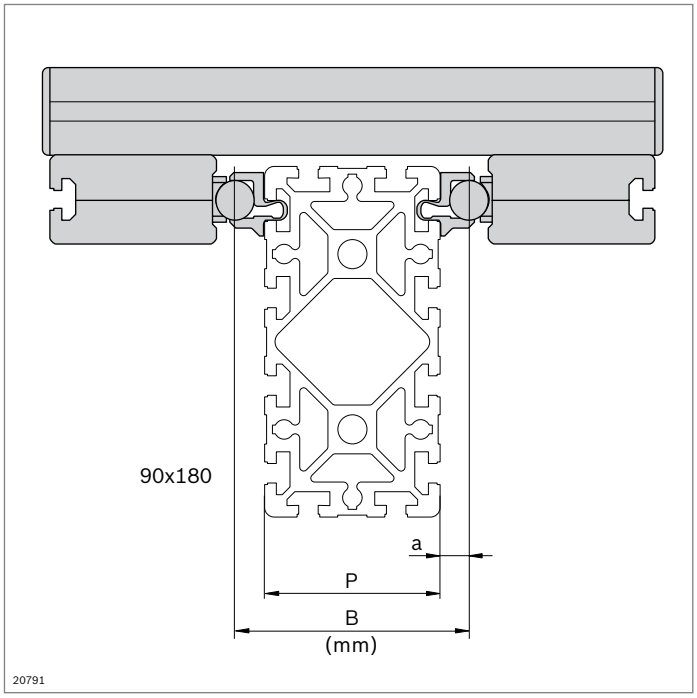
| | $A_{min}$ [1] (mm) | $F_z$ (N) | $F_y$ (N) | $M_x$ (Nm) | $M_z$ (Nm) | $M_y$ (Nm) | $v_{max}$ (m/s) | $M_{max}$ (Nm) |
|---|---|---|---|---|---|---|---|---|
| **LF6C** | 75 | 850 | 1400 | 0.4 · B[2] | 0.7 · A[2] | 0.4 · A[2] | 5 | 15 |
| **LF12S** | 90 | 2000 | 3500 | 78.0 | 1.7 · A[2] | 1.0 · A[2] | 5 | 30 |
| **LF12C** | 90 | 2000 | 3500 | 1.0 · B[2] | 1.7 · A[2] | 1.0 · A[2] | 5 | 30 |
| **LF20S** | 135 | 6000 | 12500 | 240.0 | 6.2 · A[2] | 3.0 · A[2] | 5 | 100 |
| **LF20C**[3] | 135 | 6000 | 12500 | 3.0 · B[2] | 6.2 · A[2] | 3.0 · A[2] | 5 | 100 |

[1] $A_{min}$ = Length of guide bearing
[2] Notice: A (spacing of support wheels, see image above) in mm; see below for calculation of B (track width)
[3] 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 · a**

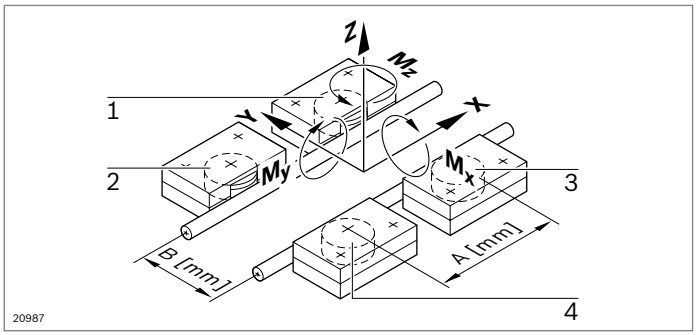
B = track width (in mm)
P = profile width (in mm)
a = rod spacing (in mm)

**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)




Cam roller 1:

$$F_r = -(\frac{F_y}{2}) - (\frac{M_z}{A})$$

$$F_a = (\frac{F_z}{4}) + (\frac{M_x}{2 \cdot B}) - (\frac{M_y}{2 \cdot A})$$

Cam roller 3:

$$F_r = +(\frac{F_y}{2}) + (\frac{M_z}{A})$$

$$F_a = (\frac{F_z}{4}) - (\frac{M_x}{2 \cdot B}) - (\frac{M_y}{2 \cdot A})$$

Cam roller 2:

$$F_r = -(\frac{F_y}{2}) + (\frac{M_z}{A})$$

$$F_a = (\frac{F_z}{4}) + (\frac{M_x}{2 \cdot B}) + (\frac{M_y}{2 \cdot A})$$

Cam roller 4:

$$F_r = +(\frac{F_y}{2}) - (\frac{M_z}{2})$$

$$F_a = (\frac{F_z}{4}) - (\frac{M_x}{2 \cdot B}) + (\frac{M_y}{2 \cdot A})$$

**Table 1: Load factors for cam rollers**

| | Load case: $F_r \geq \lvert F_a \rvert$ | | | | Load case: $F_r < \lvert F_a \rvert$ | | | |
|---|---|---|---|---|---|---|---|---|
| | x | y | $x_0$ | $y_0$ | x | y | $x_0$ | $y_0$ |
| **LF6** | 1 | 3.1 | 1.2 | 3.5 | 0.5 | 3.6 | 1 | 3.7 |
| **LF12** | 1 | 4.2 | 1.2 | 5.2 | 0.5 | 4.7 | 1 | 5.4 |
| **LF20** | 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) | $C_o$ (N) |
|---|---|---|
| **LF6** | 3670 | 2280 |
| **LF12** | 8300 | 5000 |
| **LF20** | 23400 | 16600 |

## 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 $P_0$

### 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:
$P = \max (P_1,...,P_4)$
$P_0 = \max (P_{01},...,P_{04})$

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)

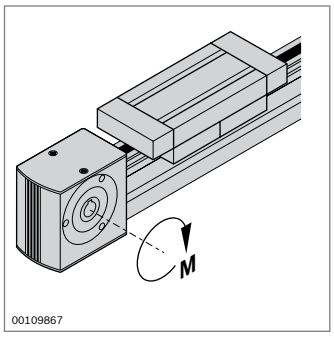
C: dynamic load capacity (table 2)
$C_0$: static load capacity (table 2)

Static safety values:

$$S_0 = (\frac{C_0}{P_0})$$

$S_0 \geq 4$ recommended!

## Size selection




### Determining the forces and moments which arise

$F_{x\,dyn}$, $F_{y\,dyn}$, $F_{z\,dyn}$ [1)]
$M_{x\,dyn}$, $M_{y\,dyn}$, $M_{z\,dyn}$

[1)] $F_{z\,dyn}$ includes the weight of the trolley

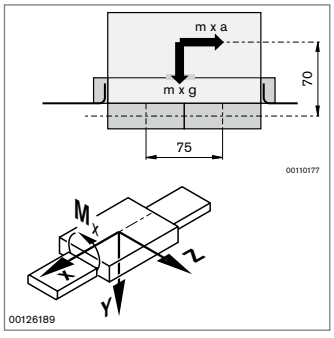
All the influences must be considered, e.g.:

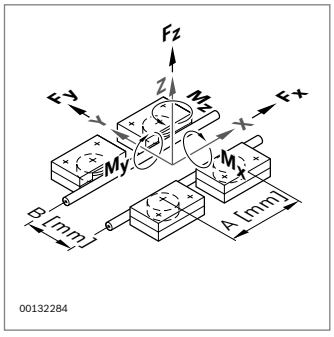
- Net mass and load
- Acceleration forces and moments
- Process forces and moments
- Loads caused by dampers and/or stops

### Example

m = 30 kg  a = 2.5 m/s²;
$L_1$ = 150 mm  $L_2$ = 5000 mm
g = 9.81 m/s²

$F_{z\,dyn}$ = m · g = 294 N
$M_{y\,dyn}$ = m · a · 70 mm = 5.25 Nm




### Determining the permissible forces and moments

For values see p. 13-50

### Example LF 6 C

$F_{z\,dyn\,zul}$ = 850 N > $F_{z\,dyn}$ = 294 N
$M_{y\,dyn\,zul}$ = 0.4 · A = 0.4 · 75 mm
= 30 Nm > $M_{y\,dyn}$ = 5.25 Nm

### Selection of the suitable size

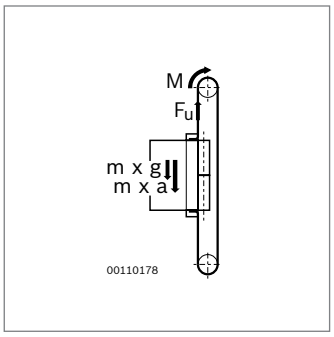
$F_{x,\,y,\,z\,dyn}$ < $F_{x,\,y,\,z\,dyn\,zul}$ !
$M_{x,\,y,\,z\,dyn}$ < $M_{x,\,y,\,z\,dyn\,zul}$ !

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

$F_{z\,dyn}$ = 294 N < $F_{z\,dyn\,zul}$ = 850 N !
$M_{y\,dyn}$ = 5.25 Nm < $M_{y\,dyn\,zul}$
= 30 Nm !

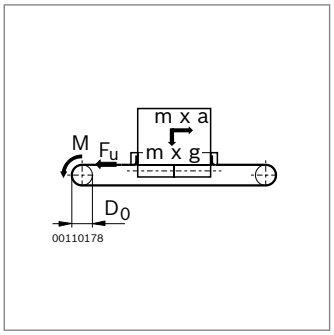
## Calculating the drive




### Peripheral force $F_u$

$$F_u = m \cdot a + m \cdot g + F_0 + \mu \cdot m \cdot g$$
$$F_u \leq F_{u\,zul}\ !$$

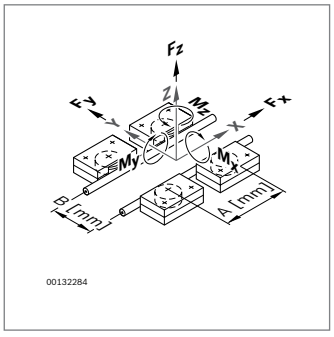
$F_0$: frictional force on return units
μ : coefficient of friction of the guide
see table below.




Alternative calculation formula

$$F_u = m \cdot a + F_0 + \mu \cdot m \cdot g \leq F_{u\,zul}\ !$$

**Example of LF6C**
m = 30 kg; a = 2.5 m/s²
$F_u = (30 \cdot 2.5)N + 10\ N$
$\quad + (0.025 \cdot 30 \cdot 9.81)N$
$F_u = 75\ N + 10\ N + 0.025 \cdot 294\ N$
$F_u = 92.35\ N < F_{u\,zul} = 600\ N\ !$




### Required drive torque M

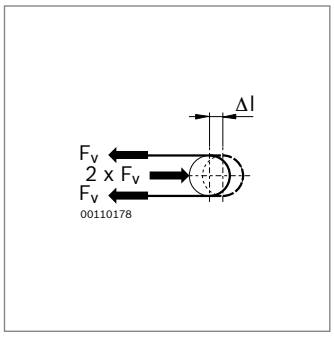
$$M = ½ \cdot D_0 \cdot F_u \leq M_{zul}\ !$$

**Example**
$M = ½ \cdot 50.94\ mm \cdot 92.35\ N$
$\quad = 2.4\ Nm$
$M = 2.35\ Nm \leq M_{zul}$
$\quad = 15\ Nm\ !$

| | **v** (m/s) | $\mathbf{F_{u\,zul}}$ (N) | $\mathbf{M_{zul}}$ (Nm) | $\mathbf{F_0}$ (N) | **μ** | $\mathbf{D_0}$ (mm) | $\mathbf{D_0 \times \pi}$ (mm) |
|---|---|---|---|---|---|---|---|
| **LF6C** | ≤ 5.0 | 600 | 15.0 | 10 | 0.025 | 50.94 | 160 |
| **LF12S** | ≤ 5.0 | 820 | 30.0 | 30 | 0.020 | 73.20 | 230 |
| **LF12C** | ≤ 5.0 | 820 | 30.0 | 30 | 0.020 | 73.20 | 230 |
| **LF20S** | ≤ 5.0 | 2000 | 100.0 | 35 | 0.015 | 101.86 | 320 |
| **LF20C** | ≤ 5.0 | 2000 | 100.0 | 35 | 0.015 | 101.86 | 320 |

$F_0$: frictional force on return units; μ : coefficient of friction

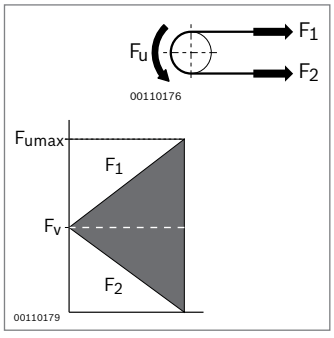
## Checking the selected size




### Preload force $F_v$ of toothed belt

$0.5 \cdot F_u \leq F_v \leq F_u$
Recommendation: $F_v = 0.5 \cdot F_u$

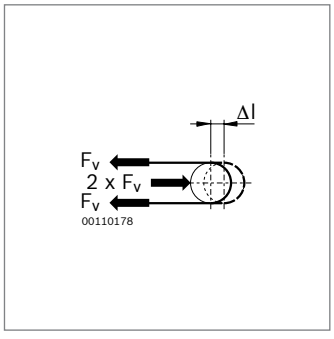
**Example**
$F_u$ = 92.35 N
$F_v$ = 50 N




### Maximum toothed belt force $F_{1\,max}$

$F_{1\,max} = F_v + 0.5 \cdot F_u \leq F_{1\,zul}$ !
$F_{2\,min} = F_v - 0.5 \cdot F_u > 0$ !

**Example of LF6C**
$F_{1\,max} = 50\ N + 0.5 \cdot 92.35\ N$
$F_{1\,max} = 96.18\ N < F_{1\,zul} = 900\ N$ !
$F_{2\,min} = 50\ N - 0.5 \cdot 92.35\ N$
$F_{2\,min} = 3.825\ N > 0$ !




### Required preload length ΔI

$\Delta l = 0.5 \cdot F_v \cdot L / C_{spez} \leq \Delta l_{max}$ !

**Example**
$L = 2 \cdot L_2 - L_1 + 400$ mm
L = 10250 mm
$\Delta l = 0.5 \cdot 50\ N \cdot 10250$ mm / 420000 N
$\Delta l = 0.8$ mm $< \Delta l_{max} = 13$ mm !

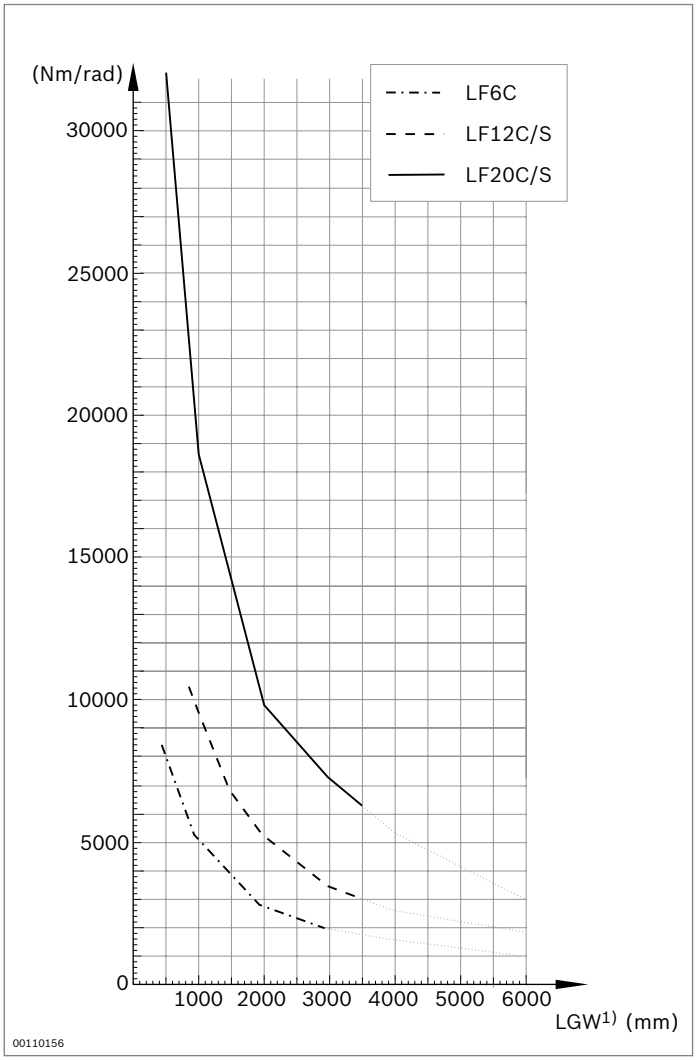
| | $F_{1\,zul}$ (N) | $C_{spez}$ (N) | $\Delta l_{max}$ (mm) | L (mm) | Page |
|---|---|---|---|---|---|
| **LF6C** | 900 | 420000 | 13 | $2 \cdot L_2 - L_1 + 400$ | 13-6 |
| **LF12S** | 1230 | 1250000 | 16 | $2 \cdot L_2 - L_1 + 630$ | 13-11 |
| **LF12C** | 1230 | 1250000 | 16 | $2 \cdot L_2 - L_1 + 630$ | 13-18 |
| **LF20S** | 3000 | 1870000 | 23 | $2 \cdot L_2 - L_1 + 780$ | 13-25 |
| **LF20C** | 3000 | 1870000 | 23 | $2 \cdot L_2 - L_1 + 780$ | 13-32 |

$C_{spez}$: 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 · $n_k$** | Diagram 3 (p. 13-51) **max. 0.7 · $n_k$** | Diagram 3 (p. 13-51) **max. 0.7 · $n_k$** |
| 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**

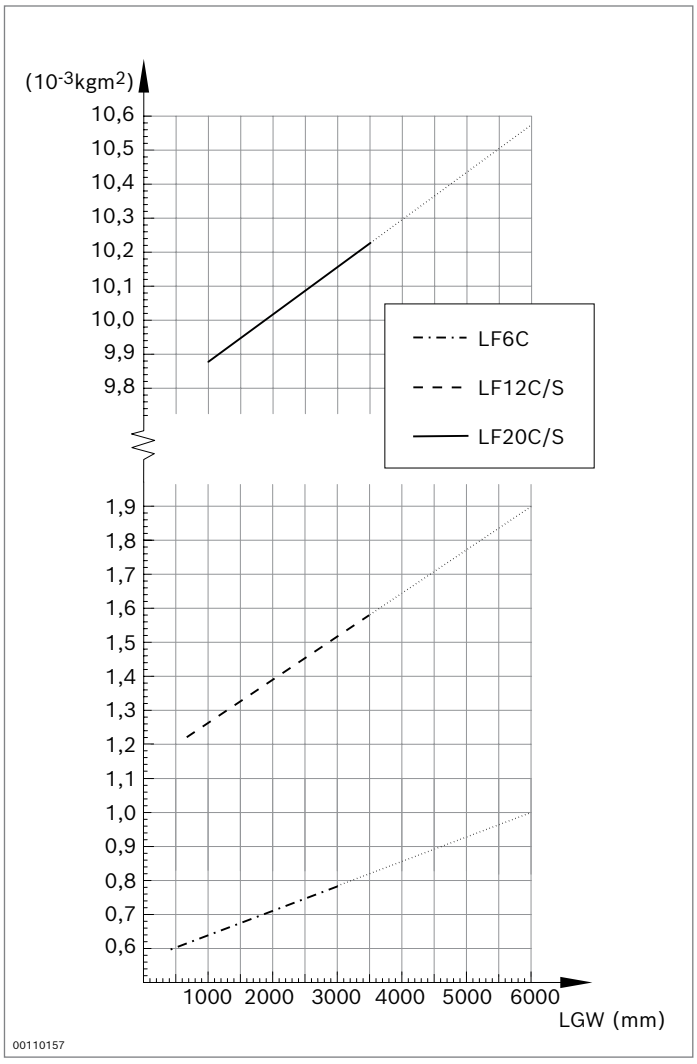



**Diagram 3: Critical rpm due to bending $n_k$**

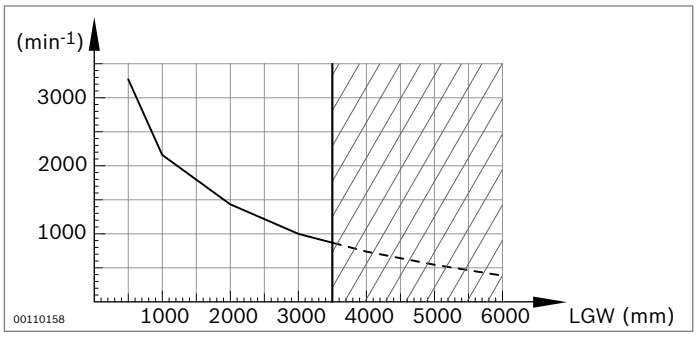
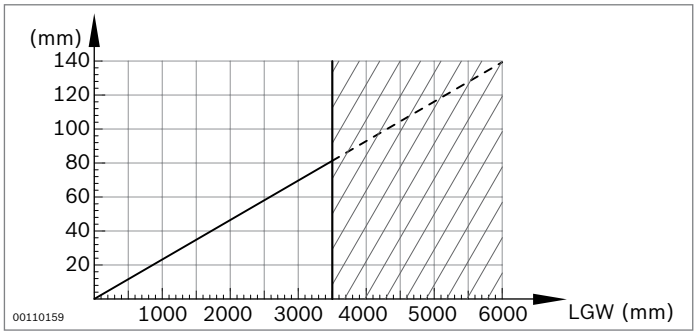



**Diagram 4: Lateral offset**

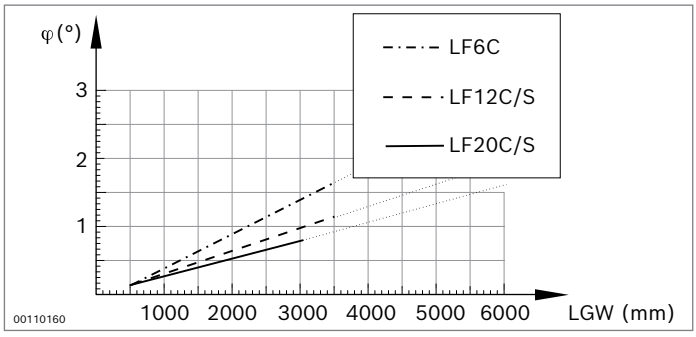





Aligned shafts are recommended.

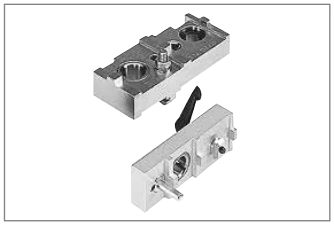
**Diagram 5: rotation angle**



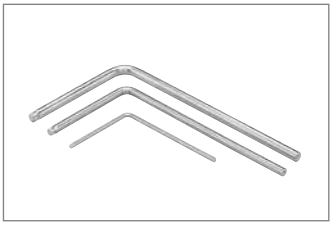



13

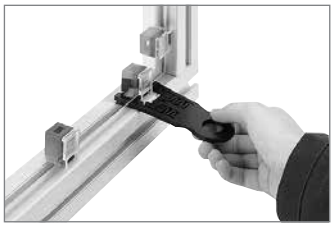
# Tools



Drilling jigs (p. 14-2)



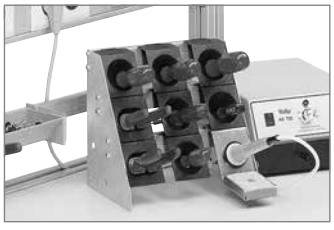
Torx® offset screwdriver (p. 14-6)



Variofix remover, flexible grinder for anodized surfaces (p. 14-8)



Miter cutter (p. 14-8)

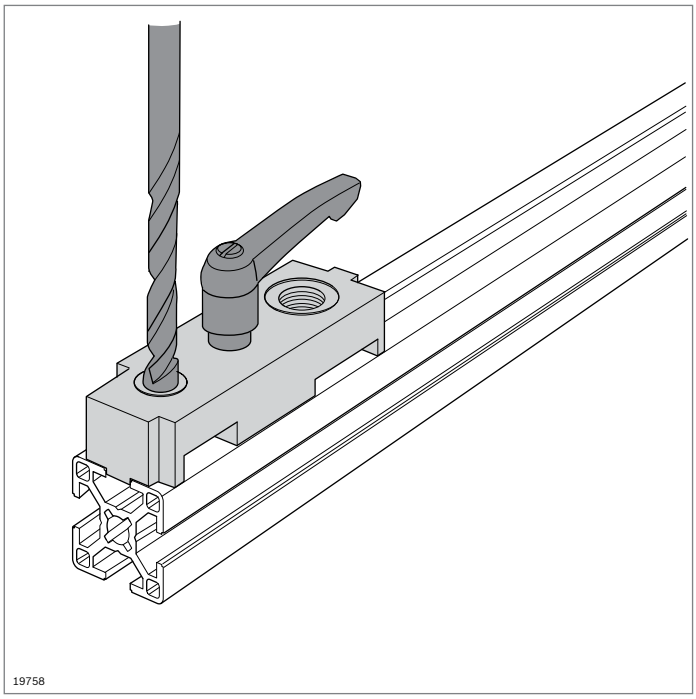


Tool shelf, tool holder (p. 14-9)



Please request information on the complete Bosch power tools range.

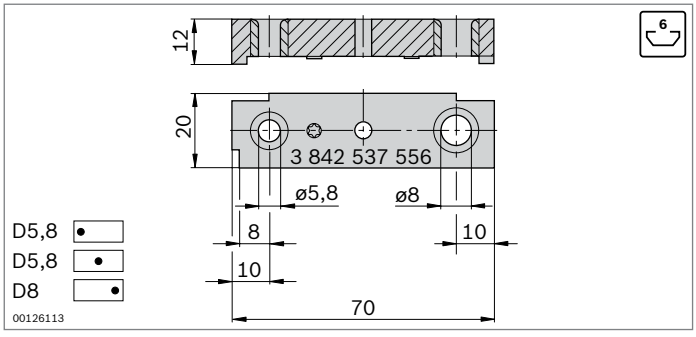
Robert Bosch Power Tools GmbH
Max-Lang-Strasse 40-46
70771 Leinfelden-Echterdingen, Germany
www.bosch-pt.com




## Drilling jigs




- For simple drilling of standard holes for the Rexroth range of connectors
- Stopping surfaces and edges for precise hole positioning
- Lockable

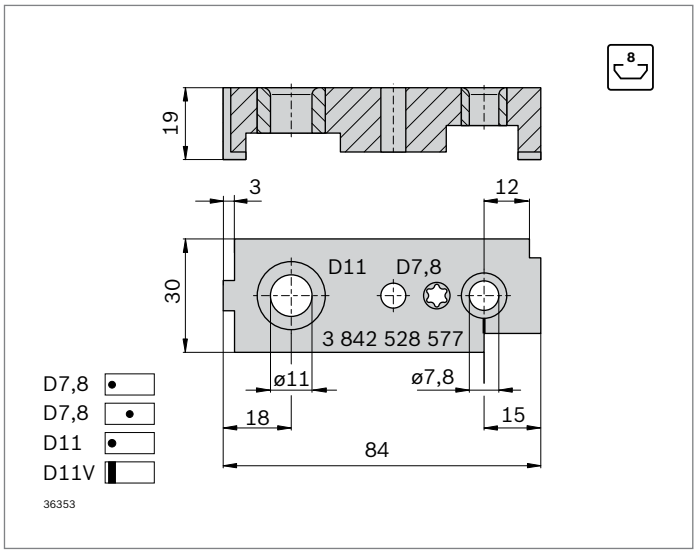



### Drilling jigs – slot 6 mm

- For through-holes (ø5.8) for hexagonal-star socket screwdrivers T25
- For fastening holes (ø8) for quick connectors

| Drilling jig | | No. | FS |
|---|---|---|---|
| **Slot 6 mm** | | **3 842 537 556** | FS1 |
| Material: | Aluminum | | |
| Scope of delivery: | Incl. fastening material (FS) | | |



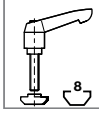


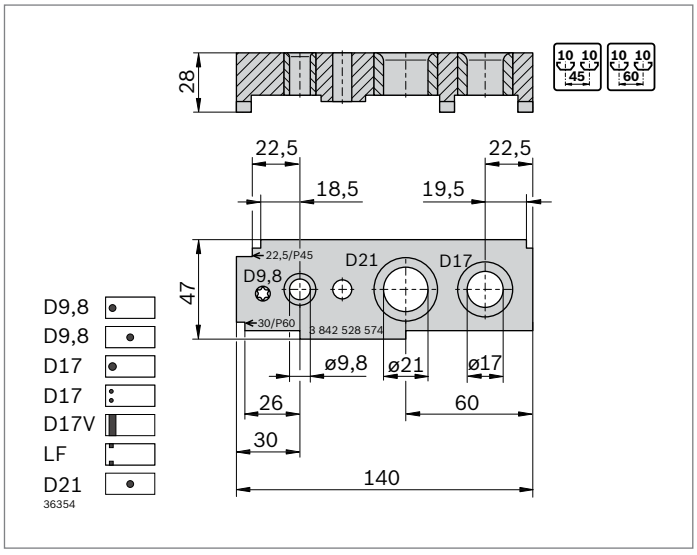

## Drilling jigs – slot 8 mm

- 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) | |

**FS2**



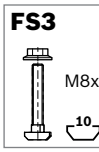



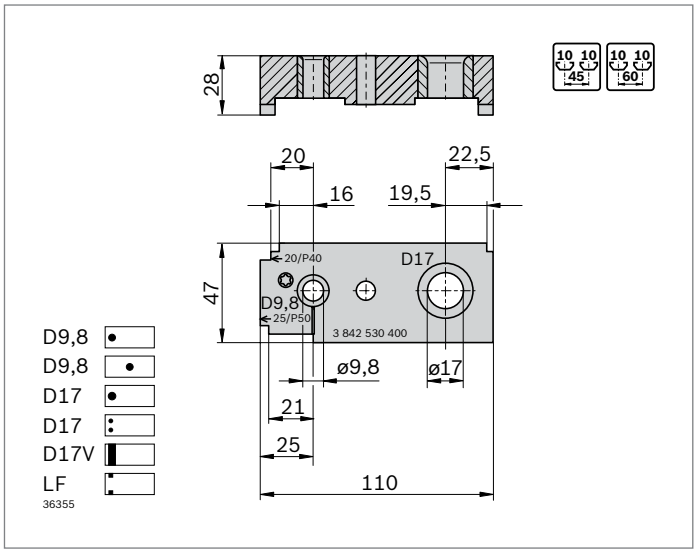

## Drilling jigs – slot 10 mm, modular dimensions 45, 60

- 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) | |

**FS3**



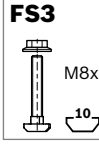



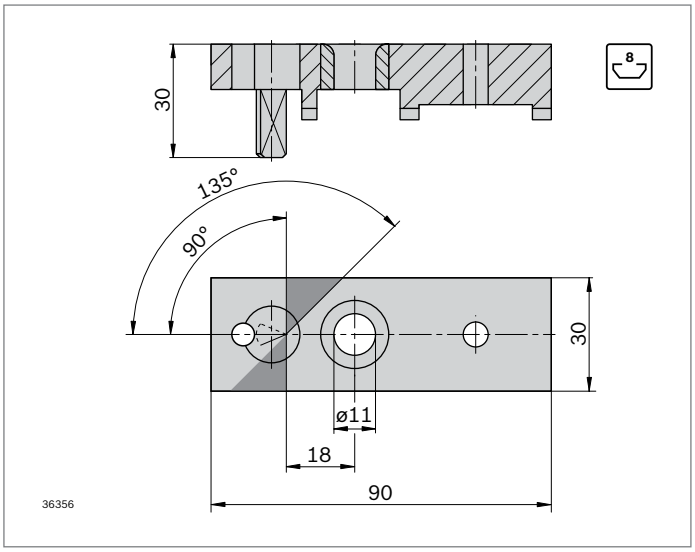

## Drilling jigs – slot 10 mm, modular dimensions 40, 50

- 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) | |

**FS3**





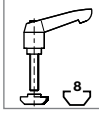

### Drilling jig for diagonally sawn profiles – slot 8 mm

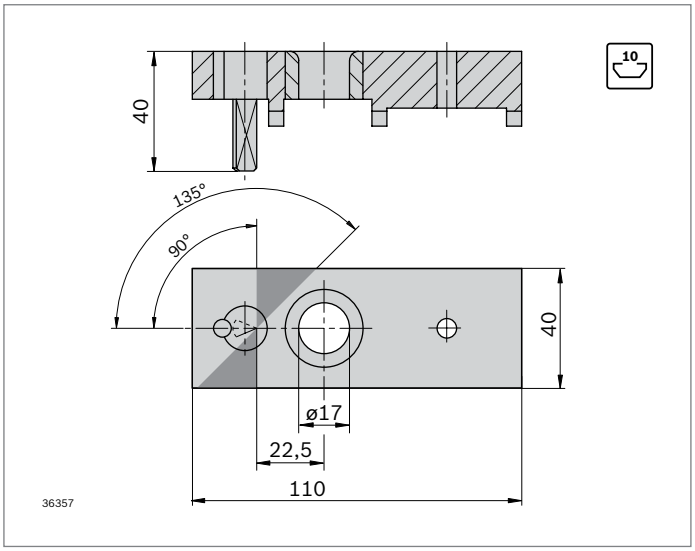
- For fastening holes (ø11) for bendable quick connectors

| 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)

**FS2**



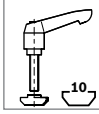

### Drilling jig for diagonally sawn profiles – slot 10 mm

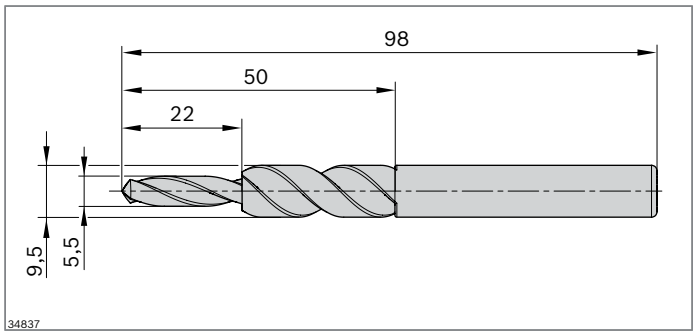
- For fastening holes (ø17) for bendable quick connectors

| 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)

**FS4**

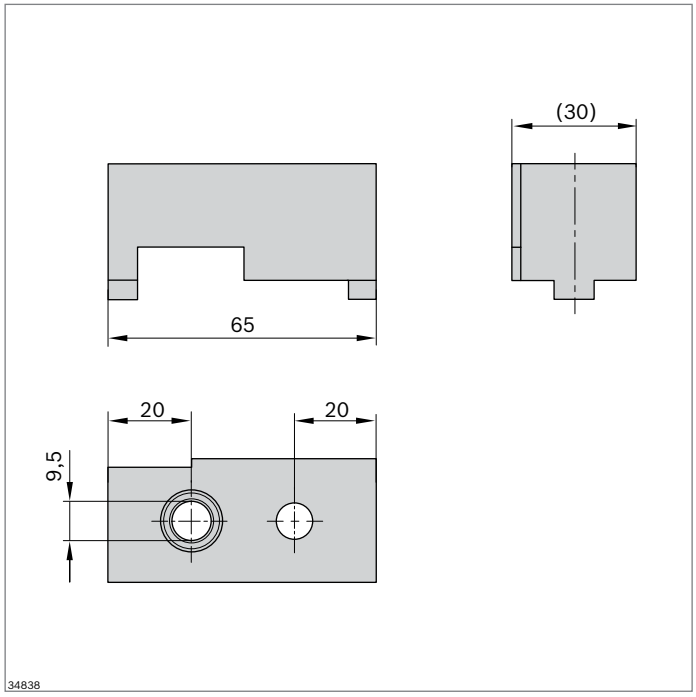





## Step drill

- 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

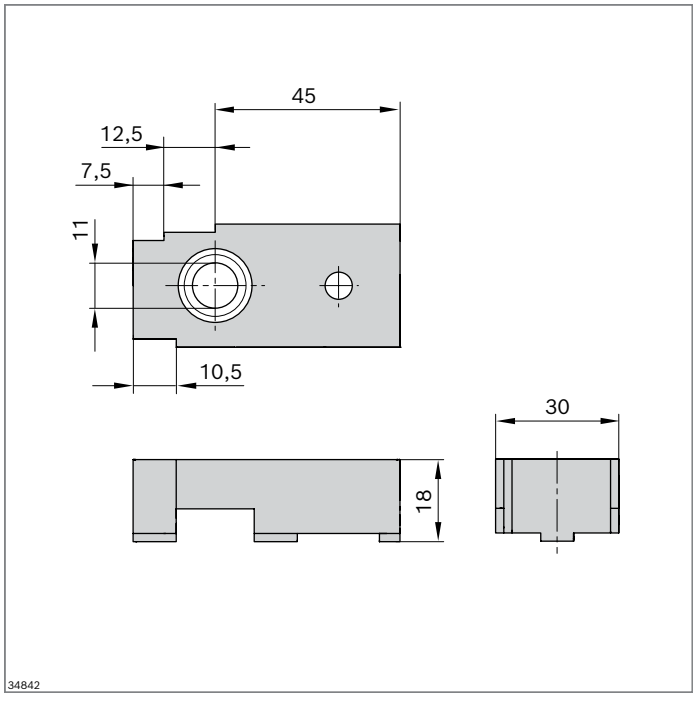
| Step drill DF | No. |
|---|---|
| | **3 842 567 968** |
| Material: | Steel; coated by chemical vapor deposit |




## Drilling jigs

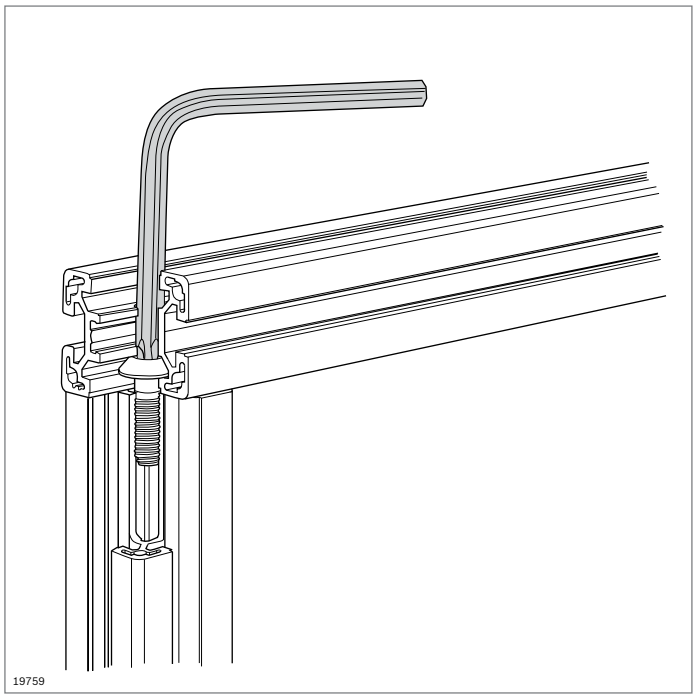
- Drilling jig for stepped bore for fastening a frame profile 22.5x45 to a strut profile 45x45(L)
- Stop surfaces and edges for precise positioning
- Stepped bore D5.5-9.5

| Drilling jig EcoSafe DF | Slot | ESD | No. |
|---|---|---|---|
| | 10 | | **3 842 567 969** |
| Material: | Base body: Aluminum; anodized<br>Drilling bush: Steel; hardened<br>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. |
|---|---|---|
| | **8** | **3 842 567 976** |
| Material: | Base body: Aluminum; anodized<br>Drilling bush: Steel; hardened<br>Clamping lever: Steel; bronzed | |

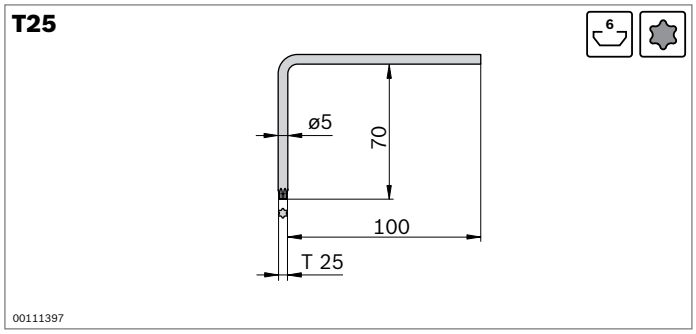



## Torx® offset screwdriver



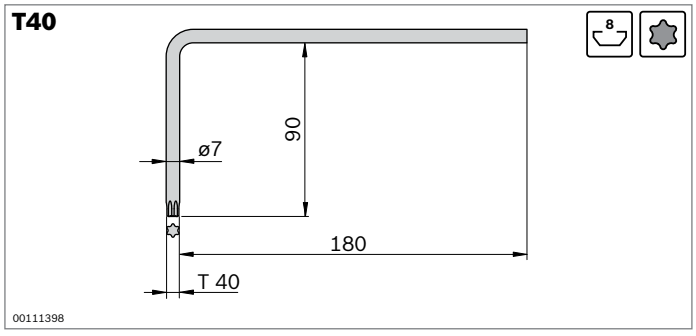

- Offset screwdriver for the central bolts (p. 3-43):
  - S6x16-**T25**
  - S8x25-**T40**
  - S12x30-**T50**, M12x30-**T50**
- Long shank for easy screw head access

**T25**



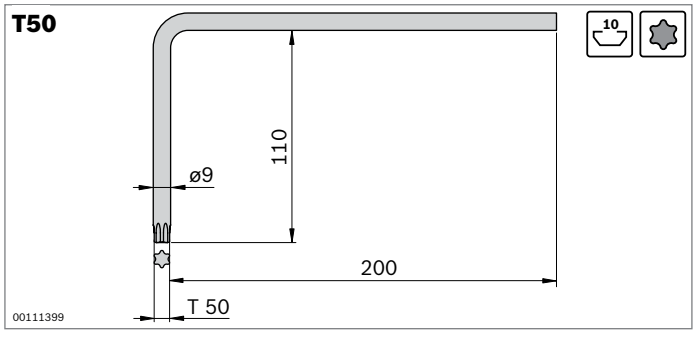

| Offset screwdriver T25 | | No. |
|---|---|---|
| | 5 | **3 842 528 590** |
| Material: | Chrome vanadium steel | |

**T40**

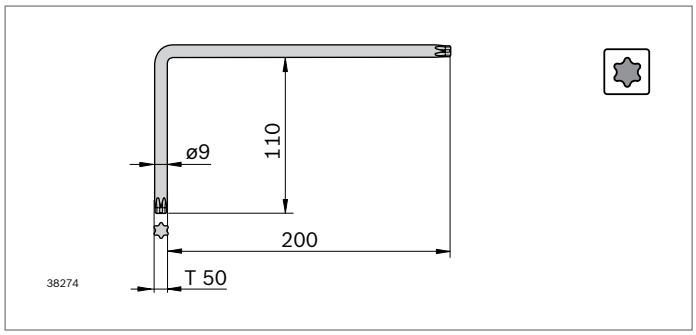



| Offset screwdriver T40 | | No. |
|---|---|---|
| | 5 | **3 842 528 588** |
| Material: | Chrome vanadium steel | |

**T50**

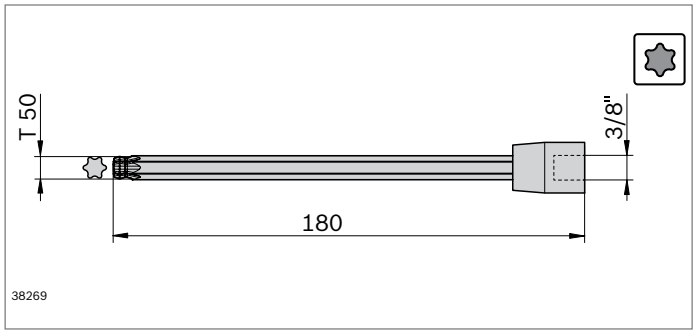



| Offset screwdriver T50 | | No. |
|---|---|---|
| | 5 | **3 842 528 586** |
| Material: | Chrome vanadium steel | |




| Offset screwdriver T50/T50 L200 | | No. |
|---|---|---|
| | 5 | **3 842 558 181** |

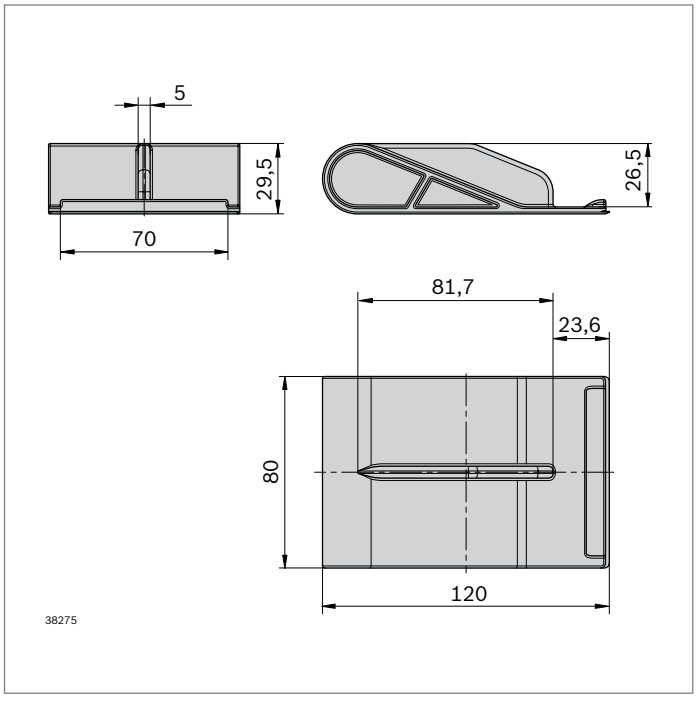
Material: Steel; nickel-plated




## 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

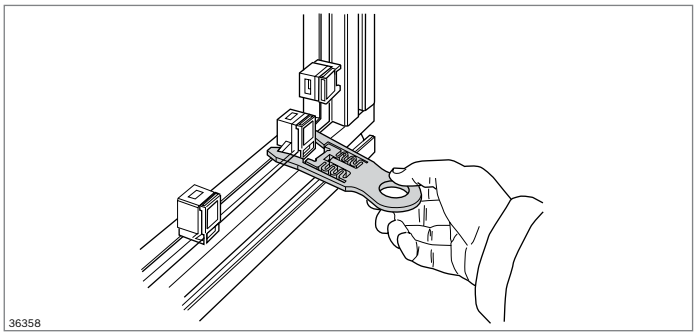
| Wrench socket T50x180, 3/8″ | | No. |
|---|---|---|
| | 1 | **3 842 558 194** |




## Disassembly tool

- Hand tool for gentle opening of cable guide profiles 40x120x120, 60x120, 120x120 and 120x120 6N

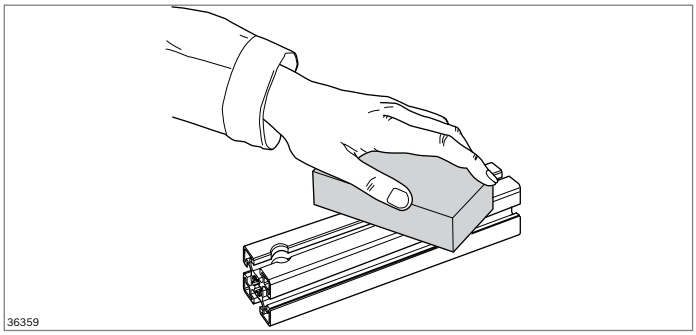
| Disassembly tool | | No. |
|---|---|---|
| | 1 | **3 842 558 196** |




## 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

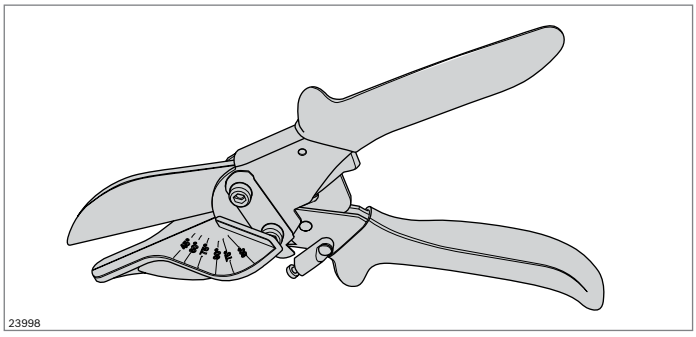
| Variofix remover | | | No. |
|---|---|---|---|
| | | 10 | **3 842 526 589** |
| Material: | PA | | |




## 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

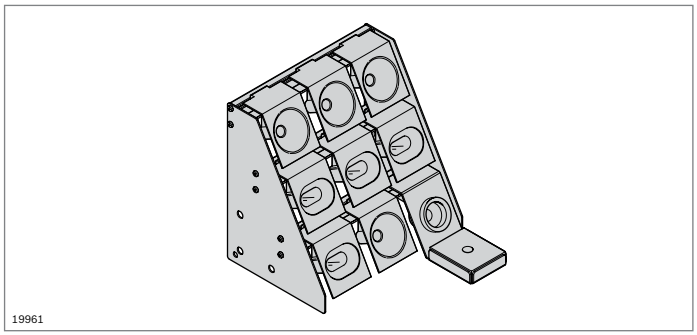
| Flexible grinder for anodized surfaces | | No. |
|---|---|---|
| | | **3 842 518 650** |
| Material: | Silicon carbide 60 %<br>Polyurethane 40 % | |




## Miter cutter

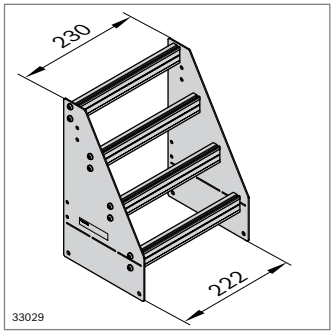
- For cutting plastic profiles to length, e.g. groove cover profiles

| Miter cutter | No. |
|---|---|
| | **3 842 547 982** |



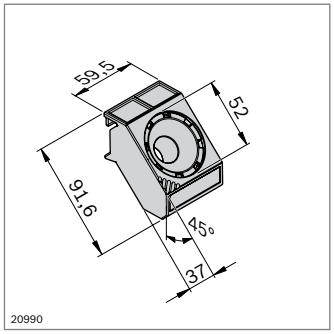

# Tool shelf
# Tool holder

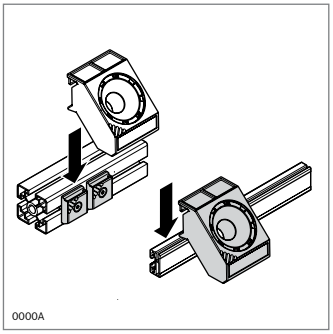
- Tool shelf and tool holder for ergonomic and handy positioning of tools at the workstation
- Tool shelf can be individually equipped
- Accessories: Container mount (p. 2-65)




| Tool shelf | ESD | No. |
|---|---|---|
| | ESD | 3 842 554 909 |

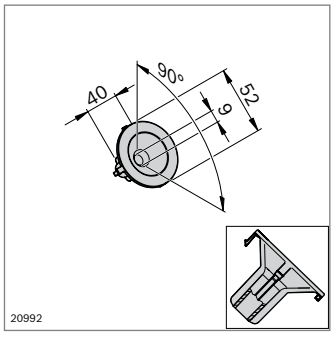
| | |
|---|---|
| Material: | Side parts: Sheet aluminum<br>Suspension profile: Aluminum; anodized |



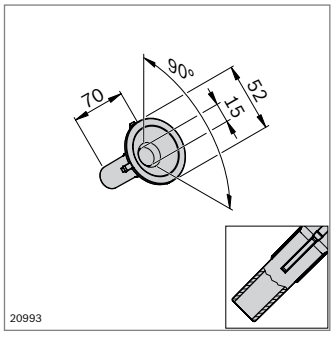

## D52 tool holder for D52-9 and D52-15 bucket trays

| Tool holder D52 | ESD | No. |
|---|---|---|
| | ESD | 3 842 544 832 |



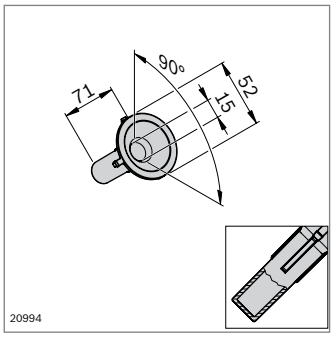


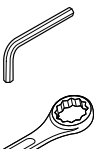

| Bucket tray D52-9 (without base) | ESD | No. |
|---|---|---|
| | ESD | 3 842 544 834 |



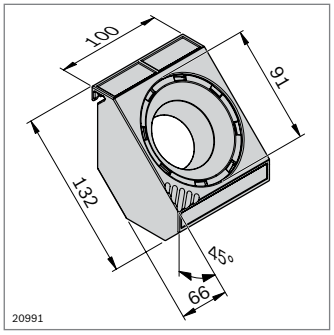


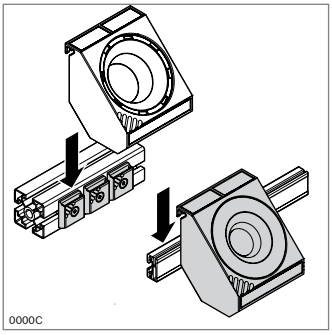

| Bucket-tray D52-15 (without base) | ESD | No. |
|---|---|---|
| | ESD | 3 842 544 835 |



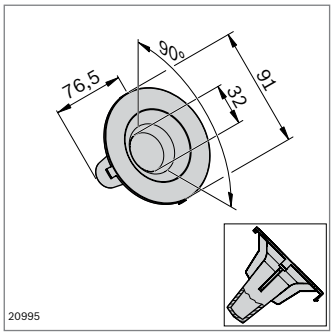
| Bucket-tray D52-15 (with base) | ESD | No. |
|---|---|---|
| | ⚠ | 3 842 544 836 |

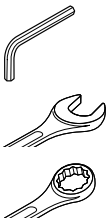


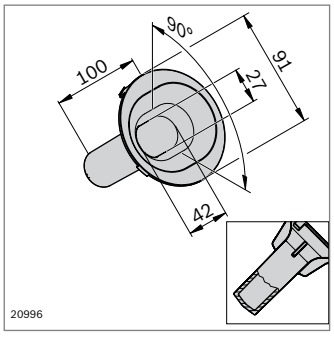

**Tool holder D91 for bucket trays D91-32, D91 Oval53 L100 and D91 Oval53 L136**

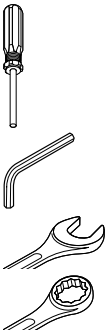
| Tool holder D91 | ESD | No. |
|---|---|---|
| | ⚠ | 3 842 544 833 |



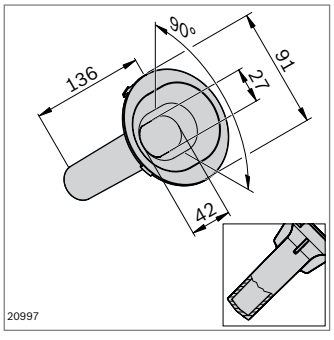



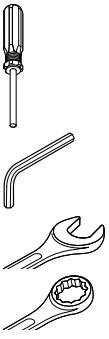
| Bucket-tray D91-32 (with base) | ESD | No. |
|---|---|---|
| | ⚠ | 3 842 544 837 |



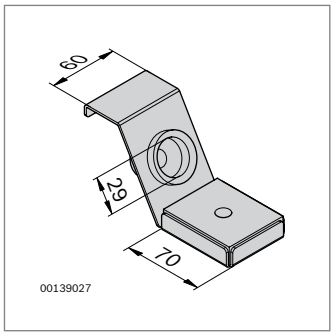



| Bucket tray D91 Oval53 L100 (with base) | ESD | No. |
|---|---|---|
| | ⚠ | 3 842 546 744 |

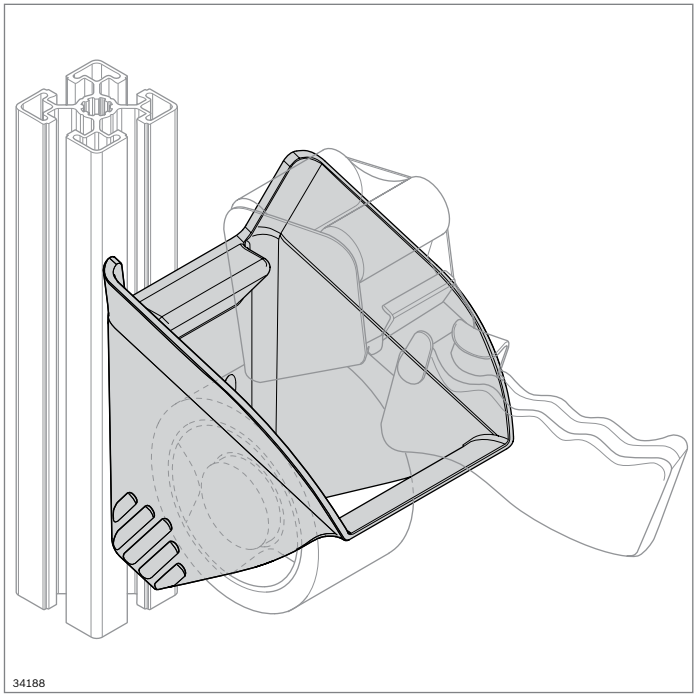


| Bucket tray D91 Oval53 L136 (with base) | ESD | No. |
|---|---|---|
| | ⚠ | 3 842 546 745 |



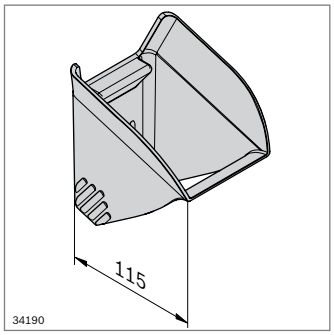

| Tool holder for soldering irons | ESD | No. |
|---|---|---|
| | ⚠ | **3 842 514 524** |

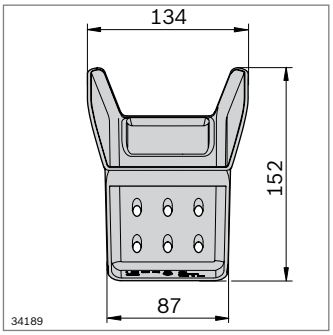



## Tool holder TAPE 50 mm




- 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



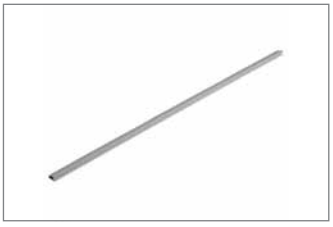

| Tool holder TAPE 50 mm | ESD | No. |
|---|---|---|
| | ⚠ | **3 842 555 673** |

| | |
|---|---|
| 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)

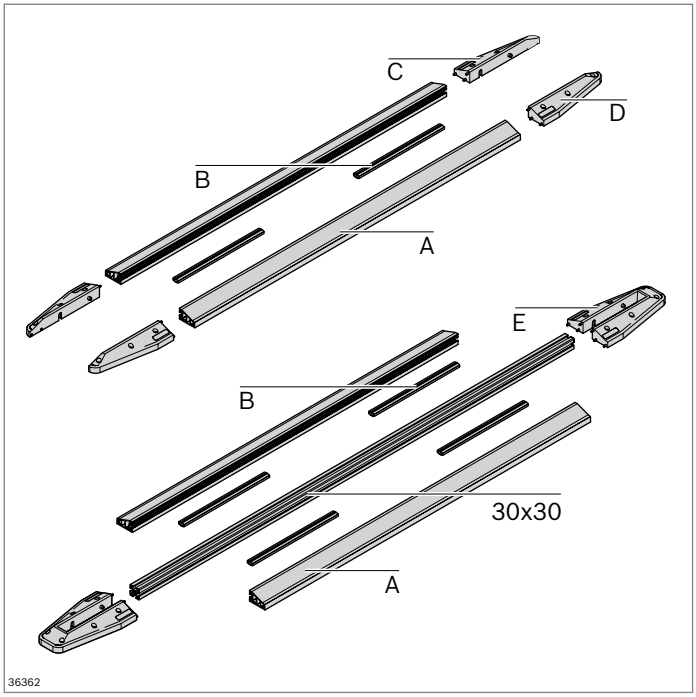


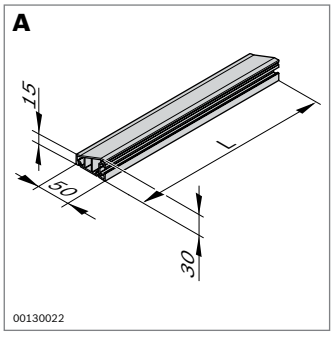
End cap, large (p. 15-3)



## 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

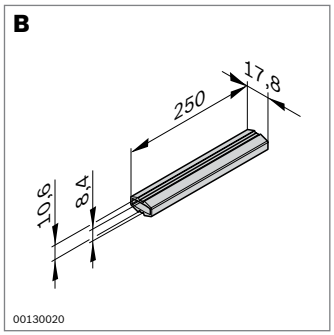



- Adhesive strips for fastening to floor
- Screw fitting to floor possible at end caps

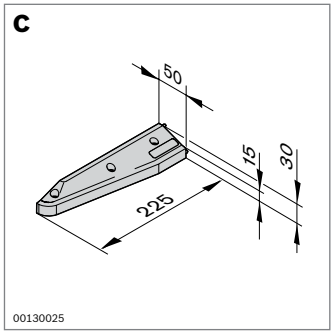
| Guide rail | L (mm) | | No. |
|---|---|---|---|
| **A** | 1200 | 10 | **3 842 540 012** |
| | 2400 | 10 | **3 842 539 894** |

Material: PVC, yellow



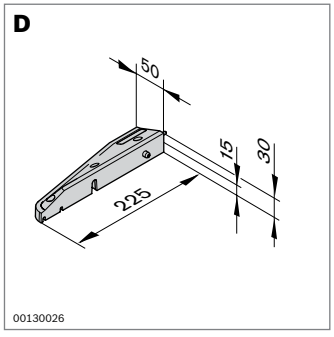

- For the parallel connection of guide rails, or a guide rail with a 30x30 profile

| Adapter | | No. |
|---|---|---|
| **B** | 20 | **3 842 539 898** |
| Material: | PP | |



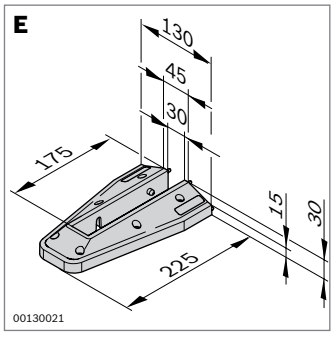

- For use as a jointing aid and for fastening the guide rails to the floor

| Right-hand end cap, small | | No. |
|---|---|---|
| **C** | 10 | **3 842 539 895** |
| 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. |
|---|---|---|
| **D** | 10 | **3 842 539 896** |
| 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. |
|---|---|---|
| **E** | 10 | **3 842 539 897** |
| Material: | PA 6; black | |

15

# Components for lateral guides



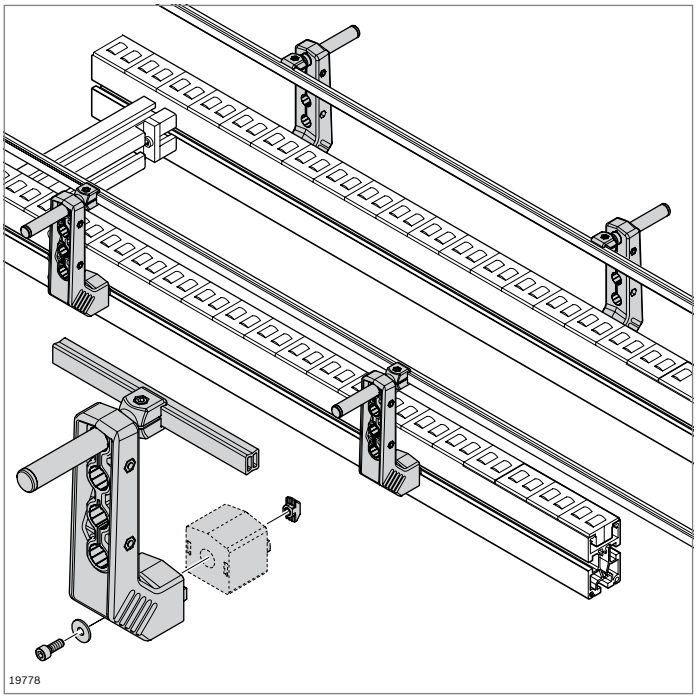
Profile rails, sliding rails (p. 16-3)



Holder, fixed (p. 16-6)

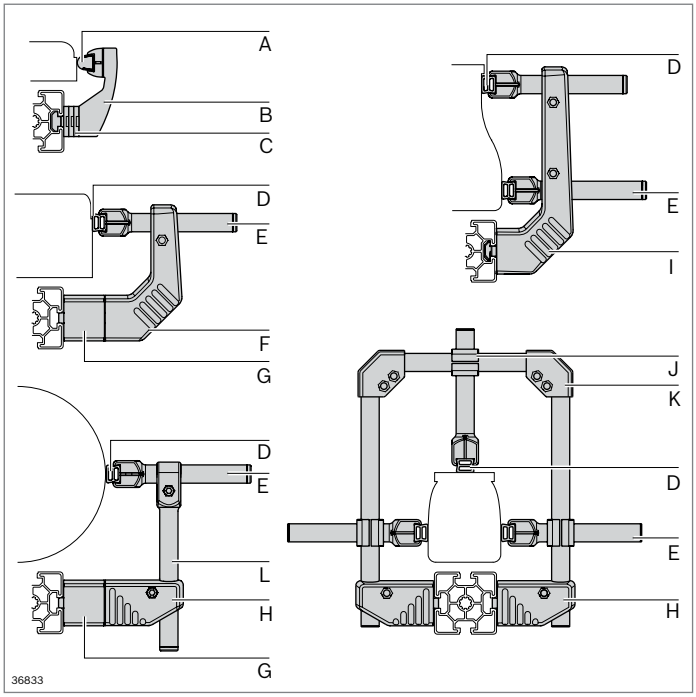


Holder, variable (p. 16-8)

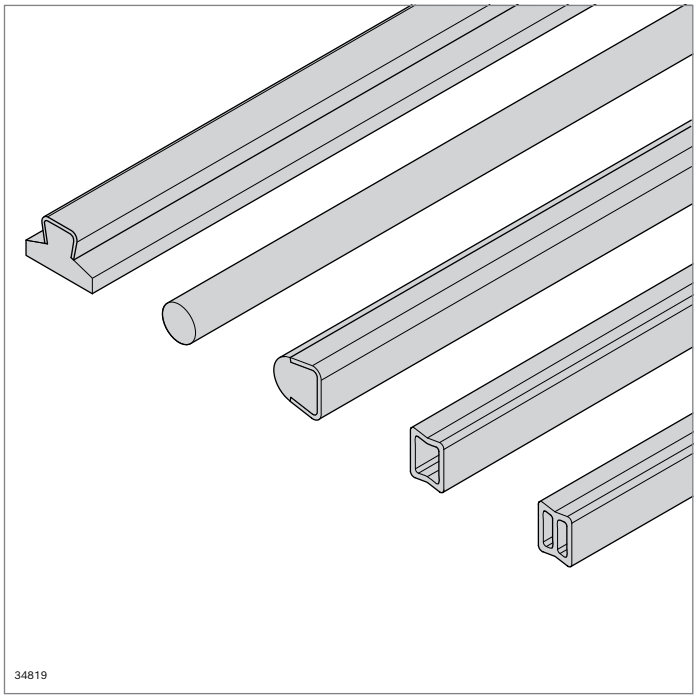



## Components for lateral guides

- 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

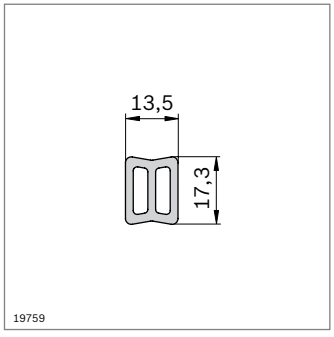



| Components | | Page |
|---|---|---|
| **A** | Profile rail 17x17.5 | 16-4 |
| **B** | Holder, fixed | 16-6 |
| **C** | Spacer plate | 16-6 |
| **D** | Aluminum profile rail | 16-3 |
| **E** | Clamping holder C L100 | 16-9 |
| **F** | Holder L134 | 16-10 |
| **G** | Spacer | 16-11 |
| **H** | Holder L45 | 16-11 |
| **I** | Holder L204 | 16-10 |
| **J** | Cross piece | 16-12 |
| **K** | Corner piece | 16-12 |
| **L** | Vertical clamping holder D18 L160 | 16-11 |




## 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)

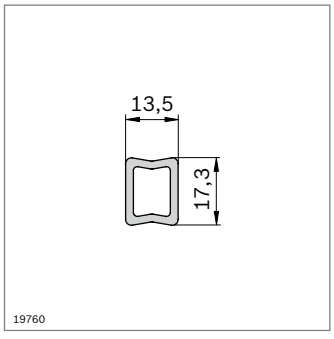



- Aluminum profile rail for robust lateral guides

| **Aluminum profile rail** | **L** (mm) **No.** |
|---|---|
| 1 pc | 200 ... 3000 **3 842 993 887 / L** |
| 20 pcs | 3000 **3 842 538 829** |

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

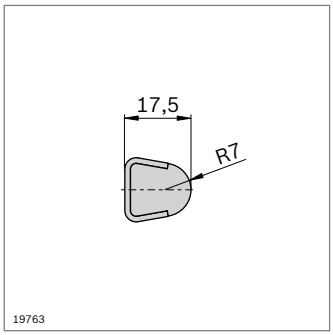



- HDPE profile rail for light applications
- Bendable

| **HDPE profile rail** | **L** (mm) **No.** |
|---|---|
| 1 pc | 3000 **3 842 538 388** |

Material: HDPE; gray

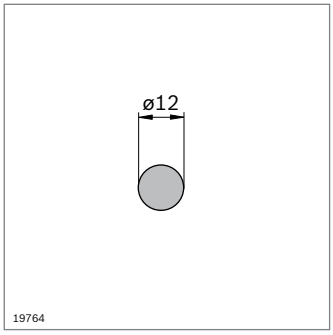
Accessories: Narrow sliding rail; high sliding rail; outer profile connector; inner profile connector; cover cap; clamping holder C L100; holder; clamping head




- 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 | **3 842 994 863 / L** |
| 20 pcs | | 3000 | **3 842 529 850** |

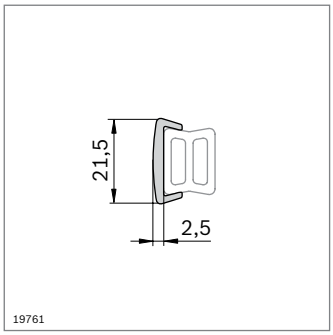
Material: Steel, stainless / PE; natural
Accessories: Outer profile connector; clamping holder C L100; holder; clamping head; clamping head




- Profile rail D12 in robust stainless steel version

| **Profile rail D12** | | **L** (mm) | **No.** |
|---|---|---|---|
| 1 pc | | 200 ... 3000 | **3 842 993 306 / L** |
| 6 pcs | | 3000 | **3 842 533 841** |

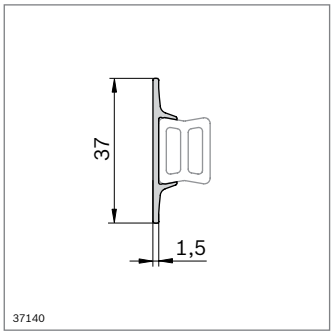
Material: Steel; stainless
Accessories: Clamping holder D12 L100




- 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 | | **3 842 538 209** |
| 1 pc | | 3000 | | **3 842 539 340** |

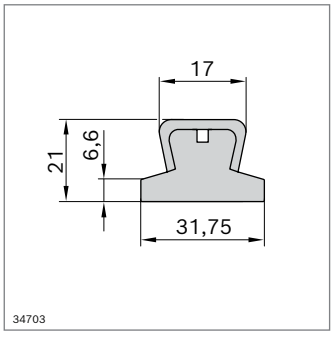
Material: HDPE; gray
ESD: PE-UHMW, conductive, black




- 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 | **3 842 538 389** |

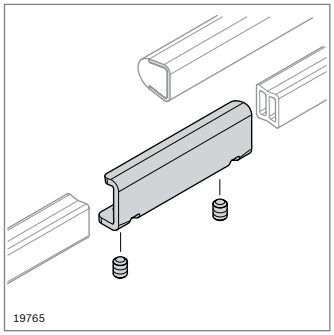
Material: HDPE; gray




- 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

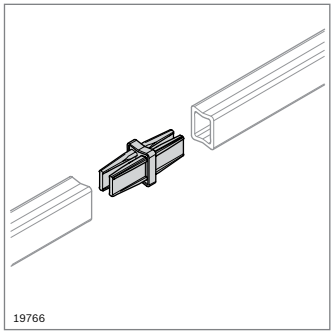
| **Profile rail T21x32** | | **L** (mm) | **No.** |
|---|---|---|---|
| 1 pc | | 3000 | **3 842 571 233** |

Material: HDPE; gray



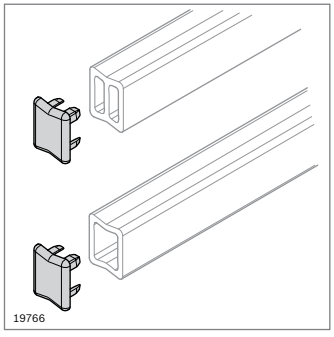

- Outer profile connector for aluminum profile rails, HDPE profile rail, 17x17.5 profile rail

| Outer profile connector | | | No. |
|---|---|---|---|
| | | 10 | **3 842 539 613** |
| Material: | Steel; stainless | | |
| Scope of delivery: | Incl. 2 x headless setscrew | | |



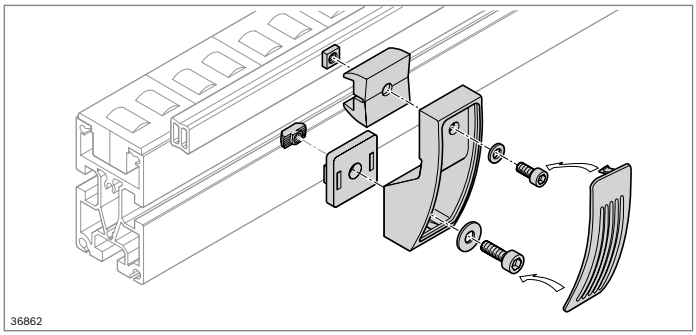

- Inner profile connector for profile rail in aluminum, HDPE

| Internal profile connector | | ESD | | No. |
|---|---|---|---|---|
| | | ESD | 10 | **3 842 539 345** |
| Material: | PA; black, conductive | | | |




- Cover cap for profile rail in aluminum, HDPE

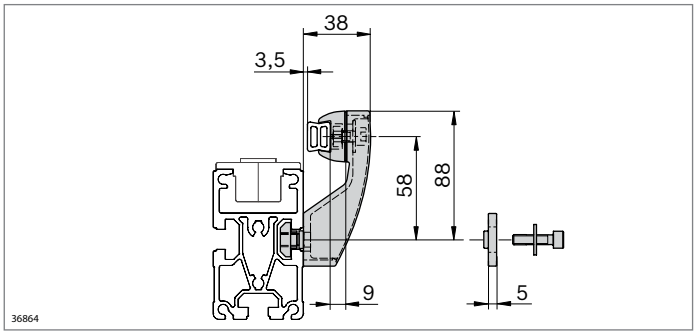
| Cover cap | | ESD | | No. |
|---|---|---|---|---|
| | | ESD | 10 | **3 842 538 208** |
| Material: | PA; black, conductive | | | |

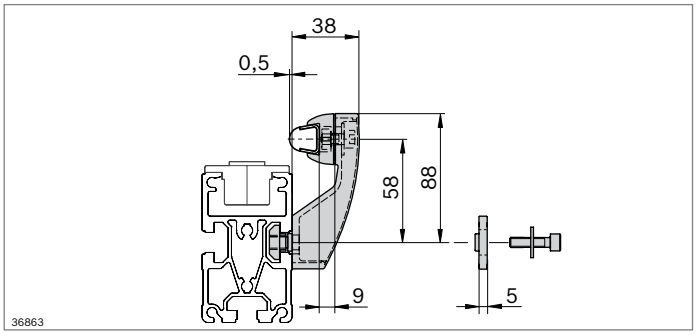


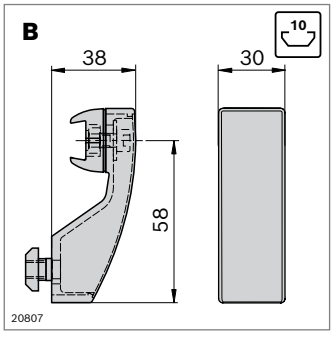

## Holder for lateral guide, fixed

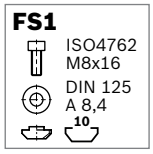
10

- Holders for lateral guides with fixed installation height and fixed guide width
- Easy to clean
- Robust



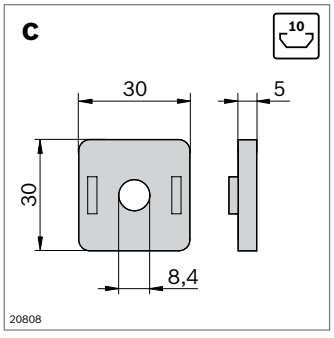



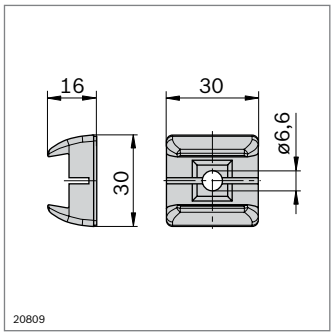

- Holder, fixed, for profile rail in aluminum, HDPE and 17x17.5
- For fixed guide width
- Spacer plate for guide width enlargement

| Holder, fixed | | No. | FS |
|---|---|---|---|
| **Set** | | **3 842 527 851** | FS1 |
| Material: | PA; black<br>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 | |



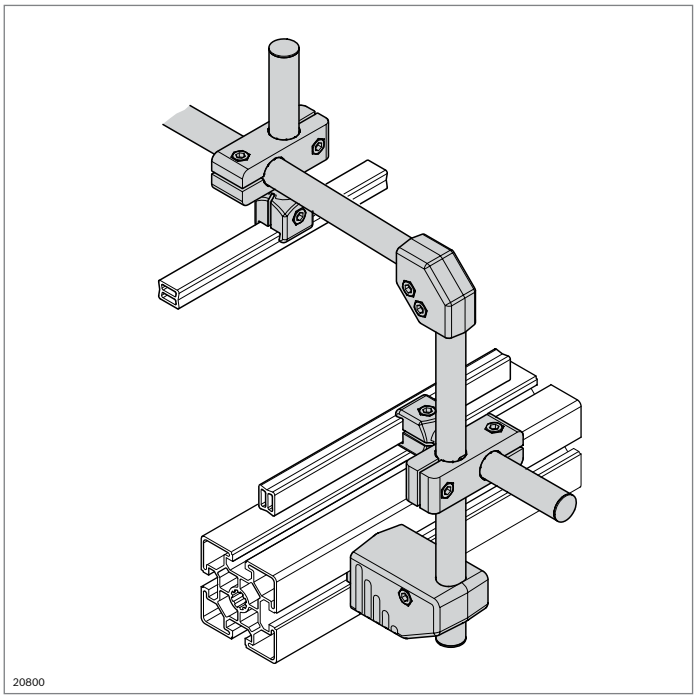

**FS2**

DIN 557
M6

- Clamping head for on-site construction of supports for protruding transported material

| Clamping head | | No. | FS |
|---|---|---|---|
| **Set** | 10 | **3 842 536 295** | FS2 |
| Material: | PA; black<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | Incl. fastening material (FS) | | |

16



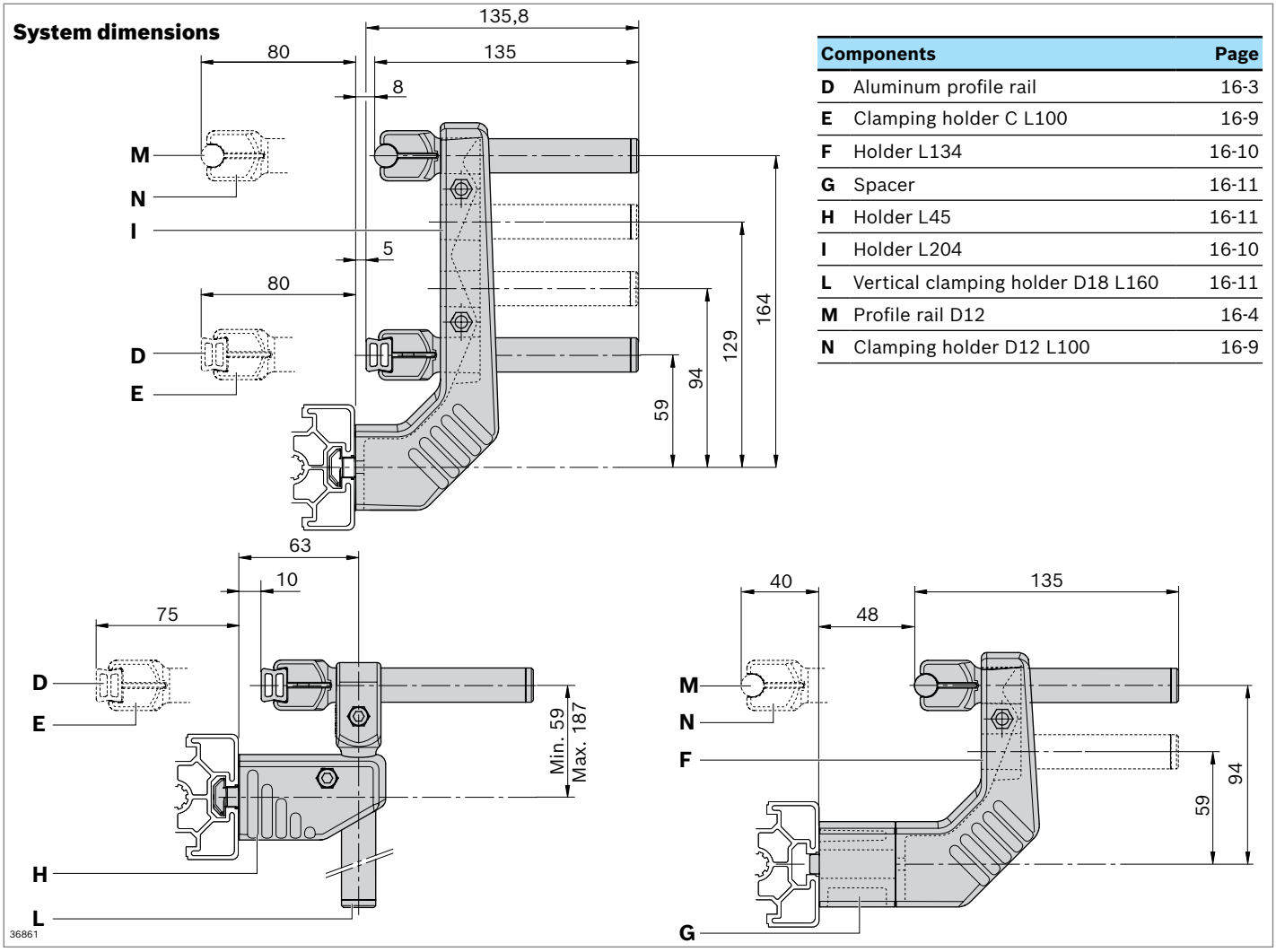

## Holder for lateral guide, variable

10

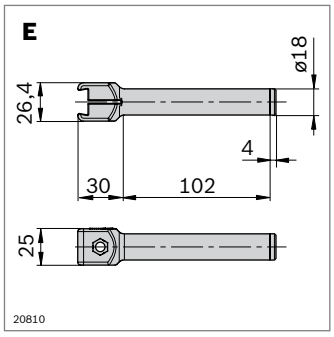
- Holder and clamping holder allow for the variable adjustment of the guide height and width
- Easy to clean

**Notice:** For stability in the rotational direction, at least 2 holders must be connected with a continuous profile rail.

### System dimensions

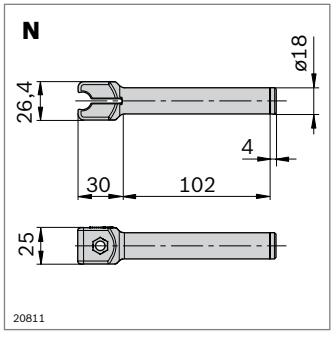



| Components | | Page |
|---|---|---|
| **D** | Aluminum profile rail | 16-3 |
| **E** | Clamping holder C L100 | 16-9 |
| **F** | Holder L134 | 16-10 |
| **G** | Spacer | 16-11 |
| **H** | Holder L45 | 16-11 |
| **I** | Holder L204 | 16-10 |
| **L** | Vertical clamping holder D18 L160 | 16-11 |
| **M** | Profile rail D12 | 16-4 |
| **N** | Clamping holder D12 L100 | 16-9 |



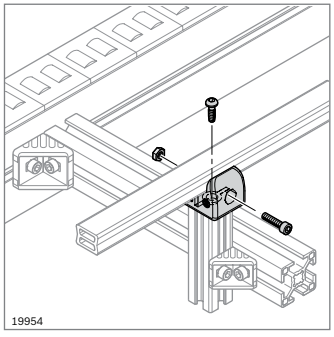

- Clamping holder C L100 for accommodating aluminum, HDPE, or 17x17.5 profile rails
- Scaling in mm and inch for simple alignment

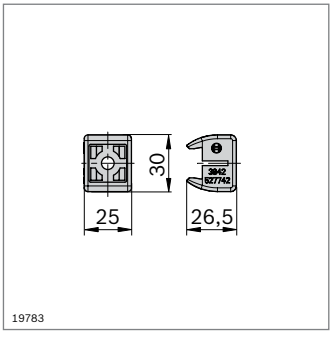
| Clamping holder C L100 | | No. |
|---|---|---|
| | 10 | **3 842 539 499** |
| Material: | Clamping holder: PA; black<br>Nut, screw: Steel; stainless | |
| Accessories: | Plug | |




- Clamping holder D12 for accommodating D12 profile rails
- Scaling in mm and inch for simple alignment

| Clamping holder D12 L100 | | No. |
|---|---|---|
| | 10 | **3 842 539 498** |
| Material: | Clamping holder: PA; black<br>Nut, screw: Steel; stainless | |
| Accessories: | Plug | |



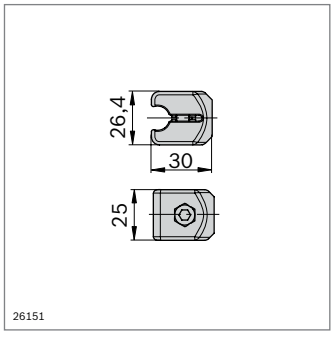

- Clamping head for accommodating aluminum, HDPE, or stainless steel profile rails with PE guide
- Direct mounting on profiles with 10 mm slot

| Clamping head | | No. | FS |
|---|---|---|---|
| **Set** | 10 | **3 842 528 009** | FS1 |
| Material: | Clamping holder: PA; black<br>Fastening material: Steel; zinc-plated | | |
| Scope of delivery: | Incl. fastening material (FS) | | |

**FS1**

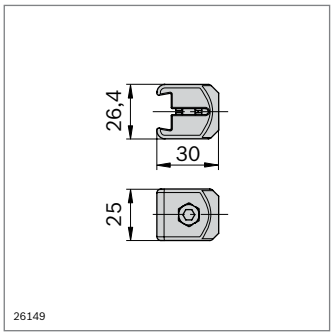


S6x16-
T25 ESD



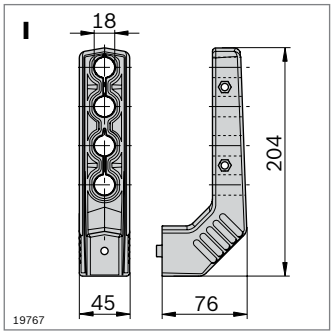

- Clamping holder D12 for accommodating D12 profile rails
- In conjunction with tube 18 for constructing longer clamping holders

| Clamping holder D12 | | No. |
|---|---|---|
| | 10 | **3 842 547 227** |
| Material: | Clamping holder: PA; black<br>Nut, screw: Steel; stainless | |
| Accessories: | Plug, tube D18 | |




- 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<br>Nut, screw: Steel; stainless | |
| Accessories: | Plug, tube D18 | |

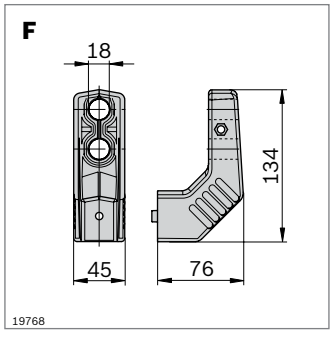



**FS2**

DIN 912
M6x16
DIN 9021
A 6,4

- 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<br>Fastening material: Steel; stainless | | |
| Scope of delivery: | Incl. fastening material (FS) | | |
| Accessories: | T-nut M6, 10 mm slot (p. 3-4) Spacer | | |

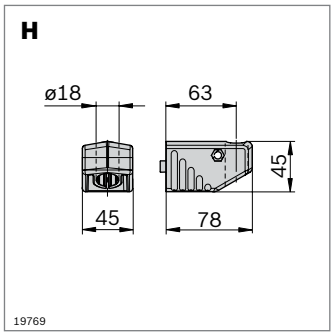



**FS2**

DIN 912
M6x16
DIN 9021
A 6,4

- 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<br>Fastening material: Steel; stainless | | |
| Scope of delivery: | Incl. fastening material (FS) | | |
| Accessories: | T-nut M6, 10 mm slot (p. 3-4) Spacer | | |



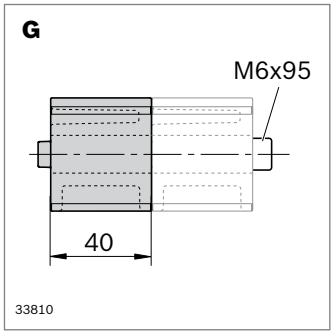


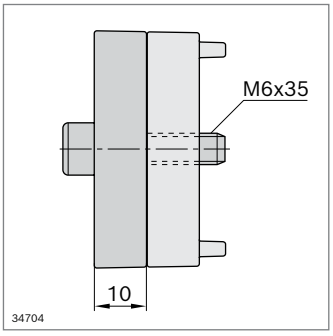


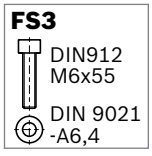
- Holder L45 for fastening vertical clamping holders or tube D18
- For infinitely height-adjustable lateral guides
- Enlarge the guide width with the spacer
- Accessories, optional: Clamping lever M6x40 (p. 4-15)

| **Holder L45** | | **No.** | **FS** |
|---|---|---|---|
| **Set** | 10 | **3 842 539 496** | FS2 |

| | |
|---|---|
| Material: | PA; black<br>Fastening material: Steel; stainless |
| Scope of delivery: | Incl. fastening material (FS) |
| Accessories: | T-nut M6, 10 mm slot (p. 3-4) Spacer |



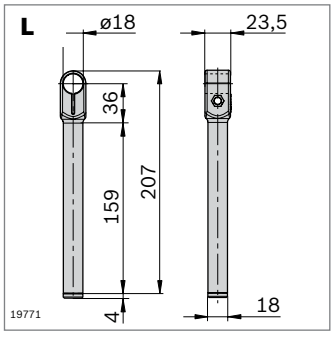




- Spacer for guide width enlargement
- 2 versions can be combined as desired, pluggable
- Centering lug for easy assembly
- Stable connection thanks to stainless steel core

| **Spacer** | | **No.** | **FS** |
|---|---|---|---|
| **Set 40 mm** | 10 | **3 842 539 497** | FS3 |
| **Set 10 mm** | 10 | **3 842 567 773** | FS3 |

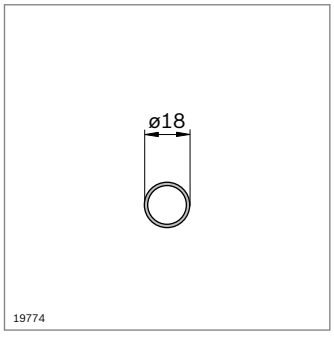
| | |
|---|---|
| Material: | PA; black<br>Fastening material: Steel; stainless |
| Scope of delivery: | Incl. Fastening material (except for T-nuts) |
| Accessories: | T-nut for AL or STS |




- Vertical clamping holder for constructing height-adjustable guides
- Accessories, optional: Clamping lever M6x40 (p. 4-15)

| **Vertical clamping holder D18 L160** | | **No.** |
|---|---|---|
| | 10 | **3 842 539 500** |

| | |
|---|---|
| Material: | PA; black<br>Nut, screw: Steel; stainless |
| Accessories: | Plug |

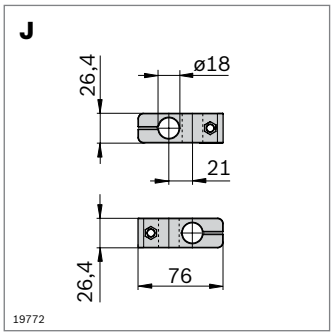



- Tube D18 for constructing height-adjustable vertical holders or cross members for upper guides

| **Tube D18** | **L** (mm) | **No.** |
|---|---|---|
| | 3000 | **3 842 539 339** |

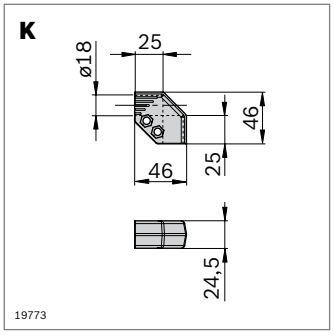
| | |
|---|---|
| Material: | Stainless steel |
| Accessories: | Plug |

16



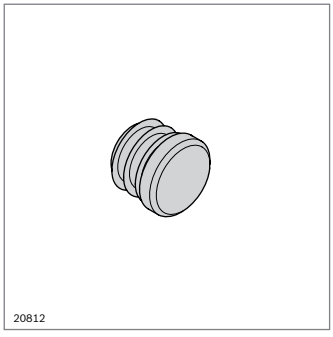

- Corner connecto for the intersecting, right-angled joining of tubes D18 and clamping holders C L100 or D12 L100
- Accessories, optional: Clamping lever M6x40 (p. 4-15)

| Cross piece | | No. |
|---|---|---|
| | 10 | **3 842 539 501** |
| Material: | Cross piece: PA; black<br>Nut, screw: Steel; stainless | |



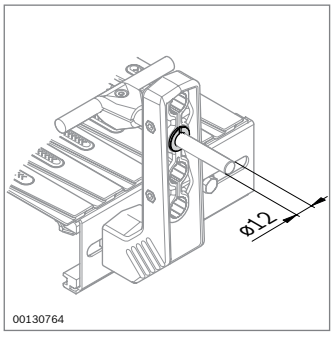

- Corner piece for the end face, right-angled joining of tubes D18 and clamping holders C L100 or D12 L100

| Corner piece | | No. |
|---|---|---|
| | 10 | **3 842 539 505** |
| Material: | Corner piece: PA; black<br>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 | **3 842 539 826** |
| Material: | PE; black | |



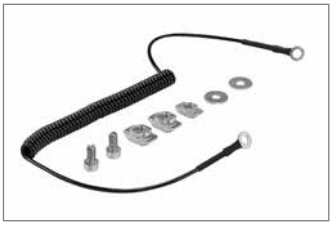

- Reducing adapter for mounting round profiles ø12 in attachments D18

| Reducing adapter | | No. |
|---|---|---|
| | 20 | **3 842 539 344** |
| Material: | PA; black | |

# Components for ESD applications



Set of grounding components (p. 17-2)



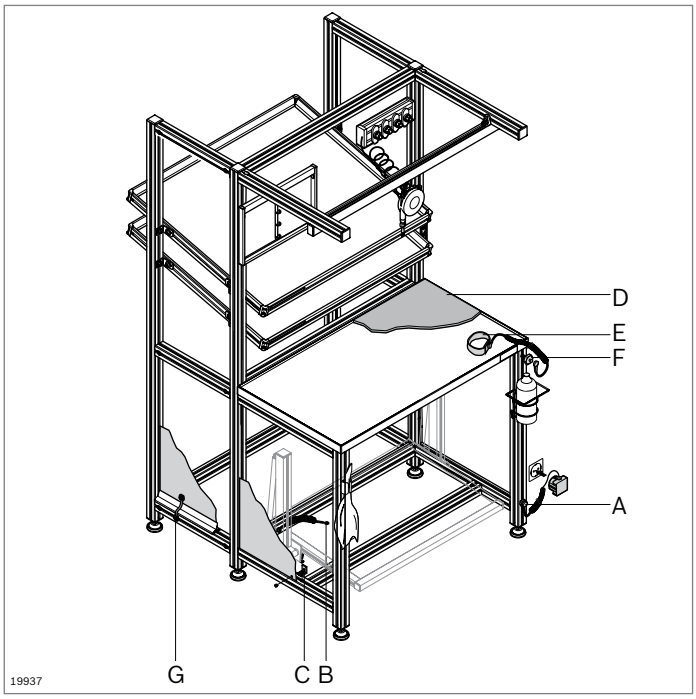
Grounding cable (p. 17-2)



Potentialfix (p. 17-3)

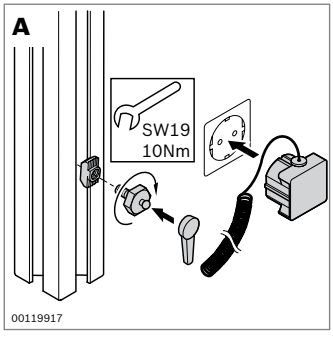


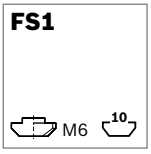
Wrist band, connection piece (p. 17-3)




## 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 (⚠).

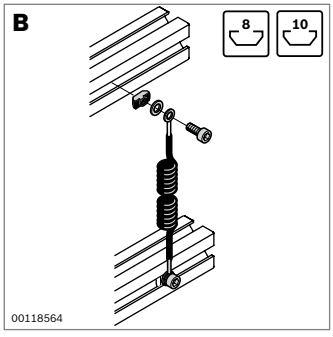


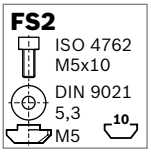



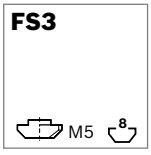

- Set of grounding components for defined grounding of ESD workstations
- Conduction resistance R = 1 x $10^6$ Ω

Accessories:
Damping ring or damping plate for insulation from conductive floors makes defined conduction possible (p. 6-4, 6-6)

| 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) | | |

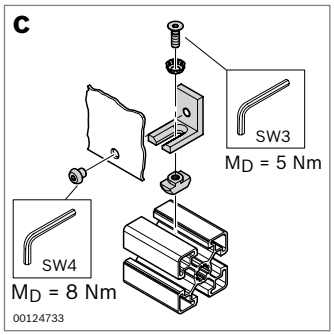


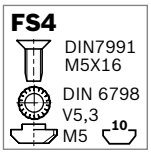




- Grounding cable to create defined conductive paths between strut profiles in order to protect ESD-sensitive components

| 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) | | |



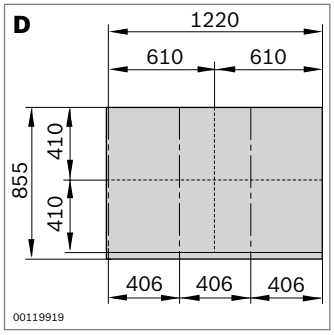




- Potentialfix for defined grounding of panel elements such as side panels

| Potentialfix | ESD | No. | FS |
|---|---|---|---|
| **C** | ⏚ | **3 842 536 320** | FS4, FS5 |

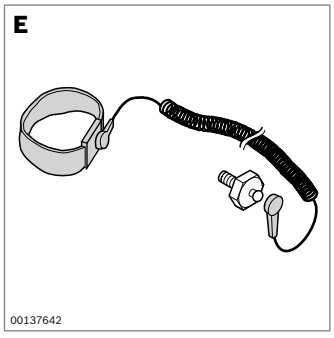
| | |
|---|---|
| Material: | Bracket Aluminum<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |




- 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 = $10^4$ ... $10^9$ Ω

| ESD mat insert | ESD | No. |
|---|---|---|
| **D** 1220 mm x 855 mm | ⏚ | **3 842 522 012** |

| | |
|---|---|
| Material: | Rubber (thickness: 2 mm) |

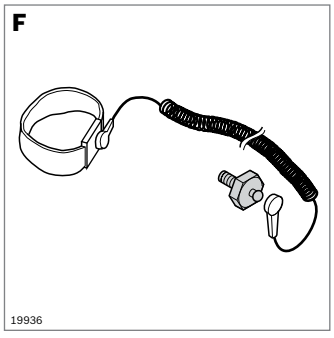



- Wrist band for defined grounding of people and protection of ESD-sensitive components

Required accessories:
- Connection piece
- T-nut M6, or swivel-in sliding block, with spring, M6

| Wrist band | ESD | No. |
|---|---|---|
| **E** | ⏚ | **3 842 516 908** |

| | |
|---|---|
| Material: | Textile with woven-in conductive plastic; navy blue |

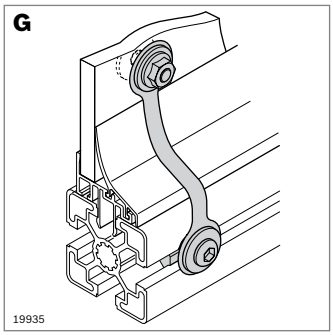


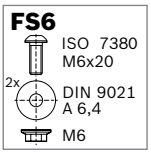

- Connection piece for connecting the wrist band to the profile construction

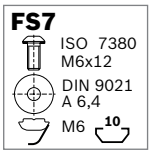
| Connection piece | ESD | | No. |
|---|---|---|---|
| **F** | ⏚ | 10 | **3 842 516 905** |

| | |
|---|---|
| Material: | Steel; zinc-plated |

17



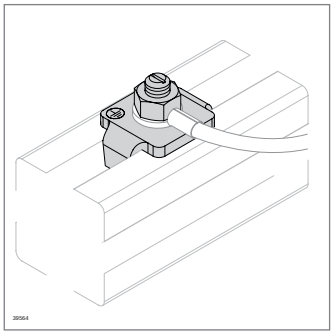



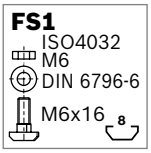



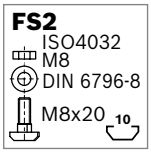

▶ Potential equalizer for creating electrostatic conduction between panel elements and strut profiles

| Potential equalizer | ESD | | No. | FS |
|---|---|---|---|---|
| **G** | | 10 | **3 842 536 148** | FS6, FS7 |

| | |
|---|---|
| Material: | Strip steel, stainless<br>Fastening material: Steel; zinc-plated |
| Scope of delivery: | Incl. fastening material (FS) |



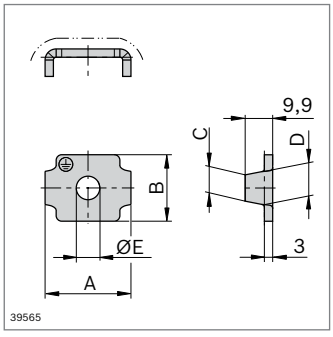




▶ PE conductor connection set for profile structures for the secure connection of a PE connection in Rexroth profile slots

| 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 | **3 842 564 106** | FS1 |
| 10 | 31 | 24 | 9.5 | 12 | 8.5 | **3 842 564 107** | FS2 |

Scope of delivery: Set incl. fastening material



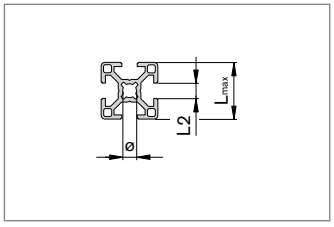
# Technical data



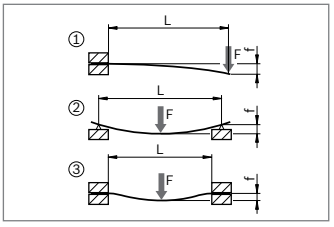
Standard profile finishing (Quick & Easy) (p. 18-2)



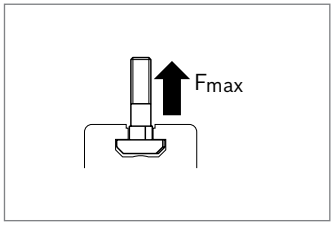
Individual profile finishing (Quick & Easy) (p. 18-7)



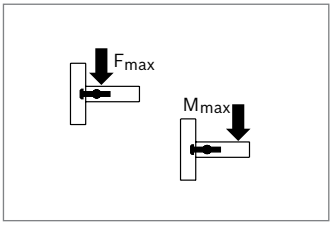

Technical data for strut profiles (p. 18-12)



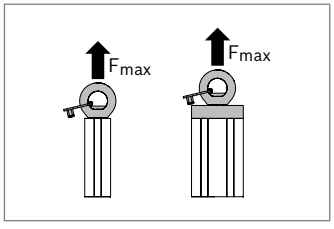

Profile deflection (p. 18-14)



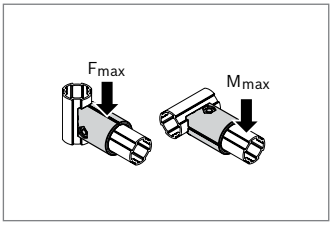

Profile slot load-bearing capacity (p. 18-15)




Load capacity of profile connection (p. 18-16)




Lifting eye bolt load capacity data (p. 18-22)




EcoShape load capacity (p. 18-23)

18

# 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

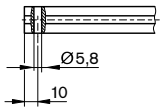
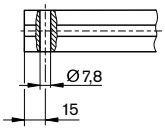
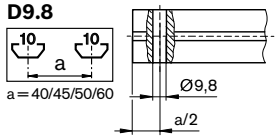
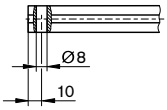
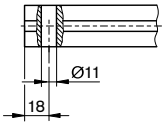
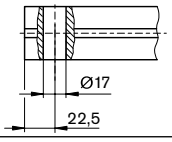
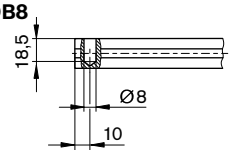
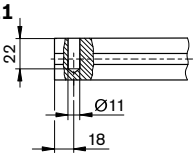
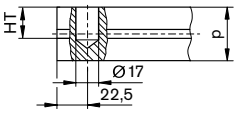
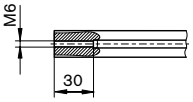
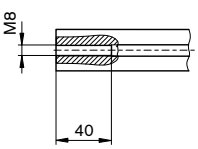
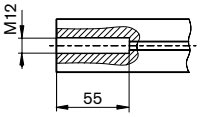
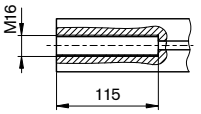
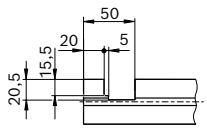
This opens up completely new possibilities!

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 | | 6 | 8 | 10 |
|---|---|---|---|---|
| **Through-hole**<br>for corner connections with central bolt |  | **D5.8**<br>  | **D7.8**<br>  | **D9.8**<br>  |
| **Through-hole**<br>for bolt connectors and quick connectors |  | **D8**<br>  | **D11**<br>  | **D17**<br>  |
| **Blind hole**<br>For longitudinal end connectors and quick connectors in closed profiles |  | **DB8**<br>  | **DB11**<br>  | **DB17**<br>  <br>**p** 40 45 50 60<br>**HT** 31 34 36 41 |
| **Threads**<br>in all core holes for accessories |  | **M6**<br>  | **M8**<br>  | **M12**<br>  <br>**M16**<br>  |
| **Standard milling**<br>for cross connectors |  | | | **F1**<br>  |

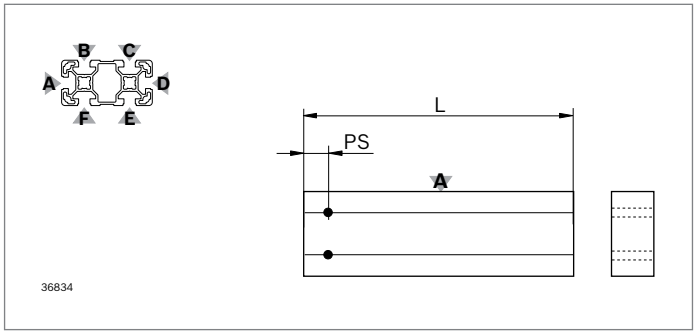


## Through-hole Dx

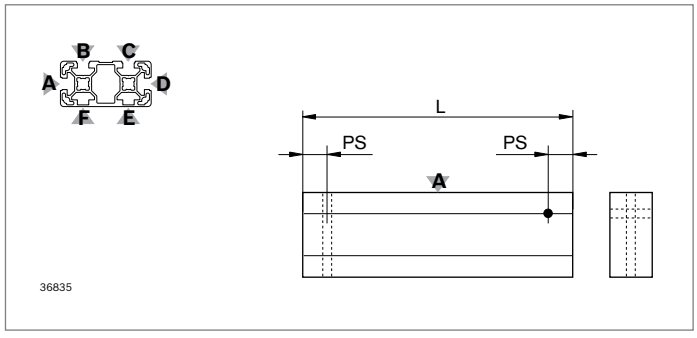
Use:

- **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)

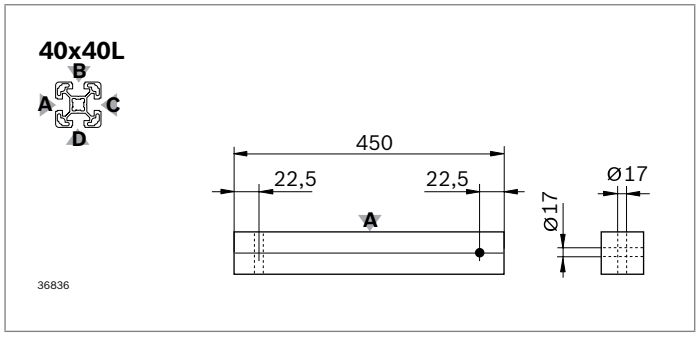



**Example:**
**3 842 993 728 / 255 / B=D17/–; C=D17/–**
Profile 40x80L / L = 255 mm /
Slot B: Through-hole D17 at profile start / without finishing at profile end;
Slot C: Through-hole D17 at profile start / without finishing at profile end
Fixed: PS = 22.5 mm (p. 18-2)

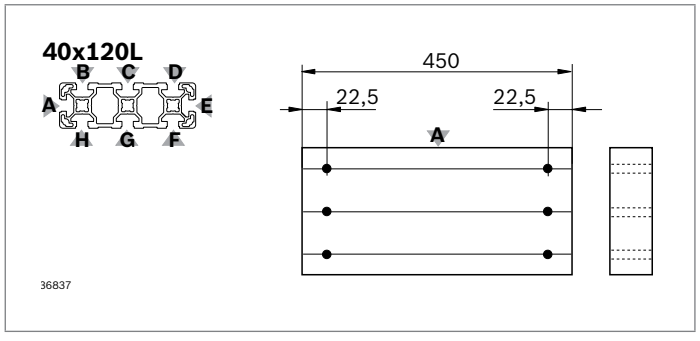



**Example:**
**3 842 993 729 / 255 / B=–/D17; D=D17/–**
Profile 40x80L 4N / L = 255 mm /
Slot B: Without finishing at profile start / through-hole D17 at profile end;
Slot D: Through-hole D17 at profile start / without finishing at profile end
Fixed: PS = 22.5 mm (p. 18-2)

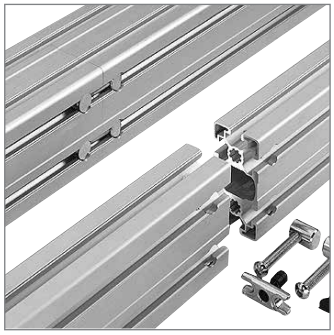
### Other examples




**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**

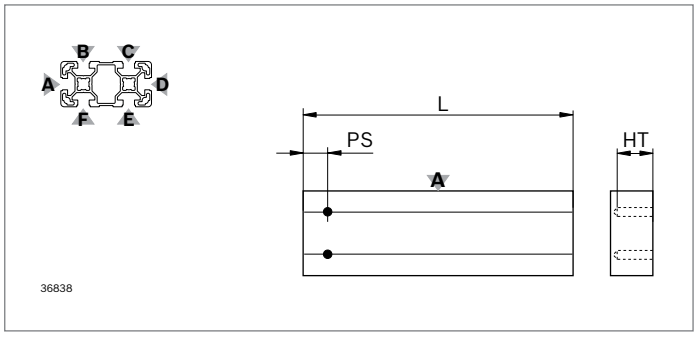


## Blind hole DBx

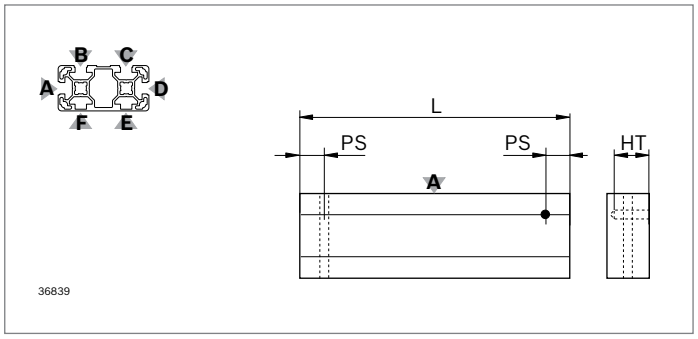
Use:
**DB8; DB11; DB17** for quick connectors in closed profiles and longitudinal end connectors

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)



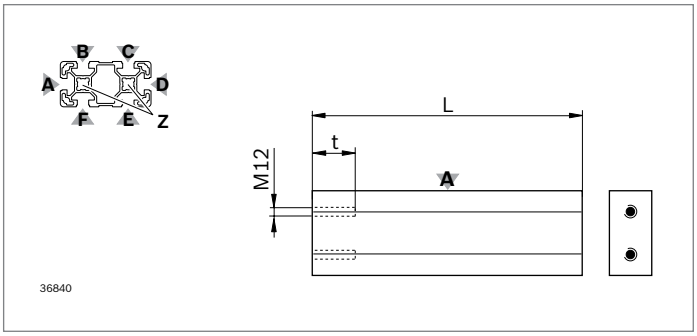

**Example:**
**3 842 993 729 / 255 / B=–/DB17; D=D17/–**
Profile 40x80L 4N / L = 255 mm /
Slot B: Without finishing at profile start / blind hole DB17 at profile end;
Slot D: Through-hole D17 at profile start / without finishing at profile end
Fixed: PS = 22.5 mm, HT = 34 mm (p. 18-2)



## Thread Mx

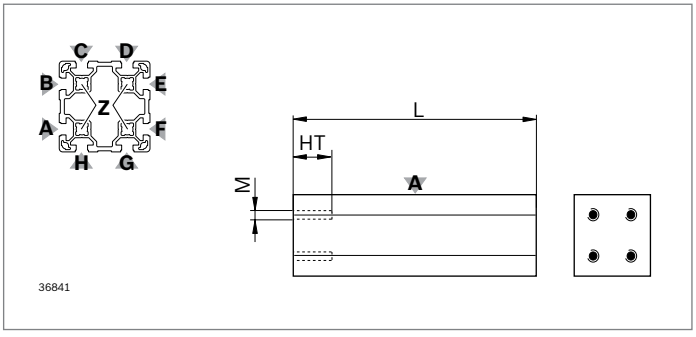
Use:
**M6; M8; M12; M16** in all core holes of the profile, e.g. for screw fitting of feet and wheels

Fixed specifications:
Thread depth




**Example:**
**3 842 993 728 / 255 / Z=M12/–**

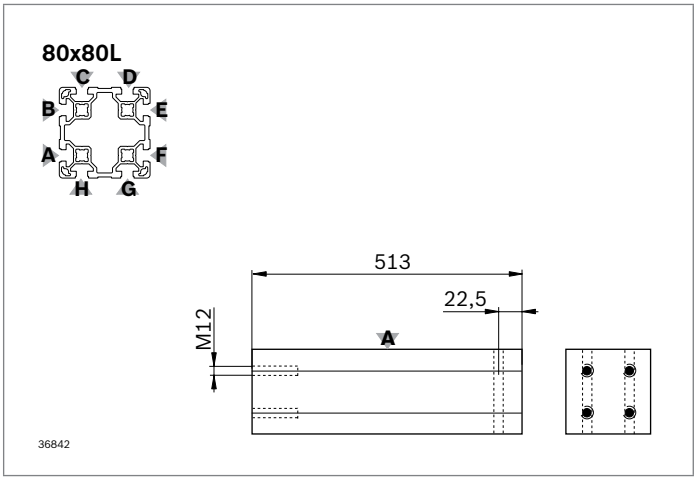
Profile 40x80L / L = 255 mm /
Thread M12 in all core holes at profile start /
no finishing at profile end
Fixed: Thread depth HT = 55 mm (p. 18-2)



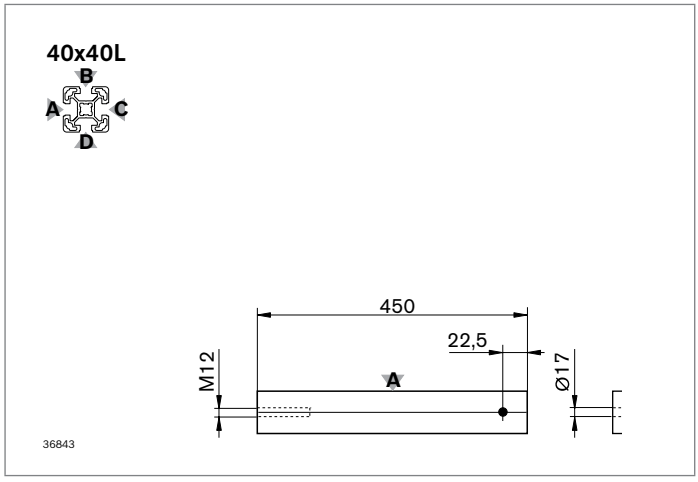

**Example:**
**3 842 993 674 / 255 / Z=M12/–**

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)

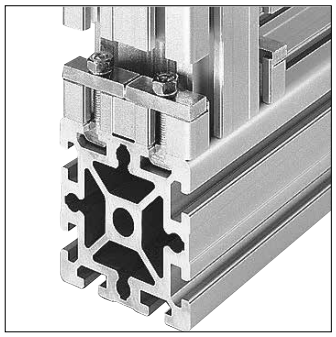
### Other examples




**Example:**
**3 842 993 674 / 513 / Z=M12/–; A=–/D17; B=–/D17**



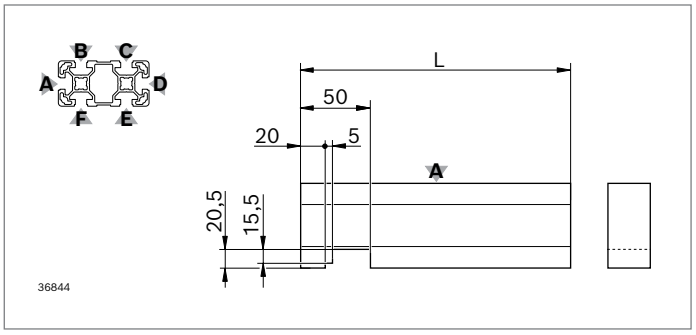

**Example:**
**3 842 993 724 / 450 / Z=M12/–; B=–/D17**



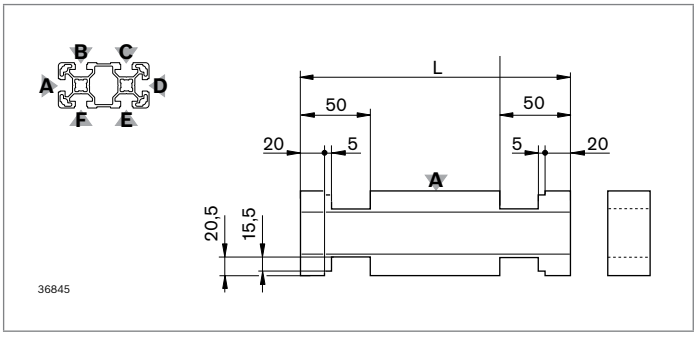
## Standard milling F1

Use:
F1 for cross connectors

Fixed specifications:
- Start point of milling (PS)
- End point of milling (PE)
- Depth of milling (HT)

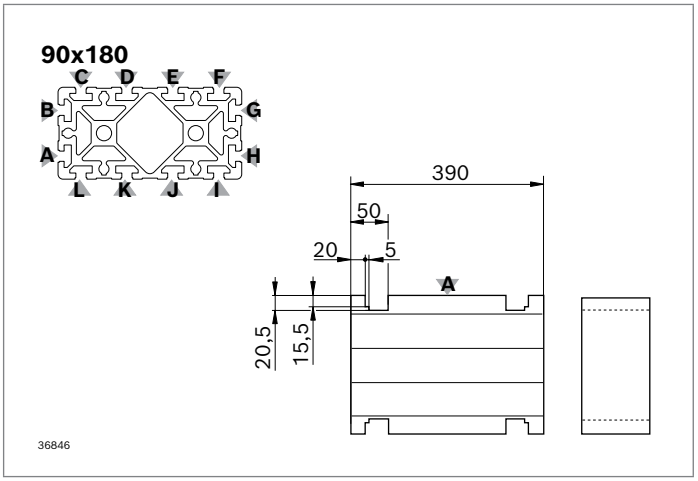



**Example:**
**3 842 993 728 / 383 / D=F1/–**
Profile 40x80L / L = 383 mm /
Slot D: Cross milling at profile start /
without finishing at profile end

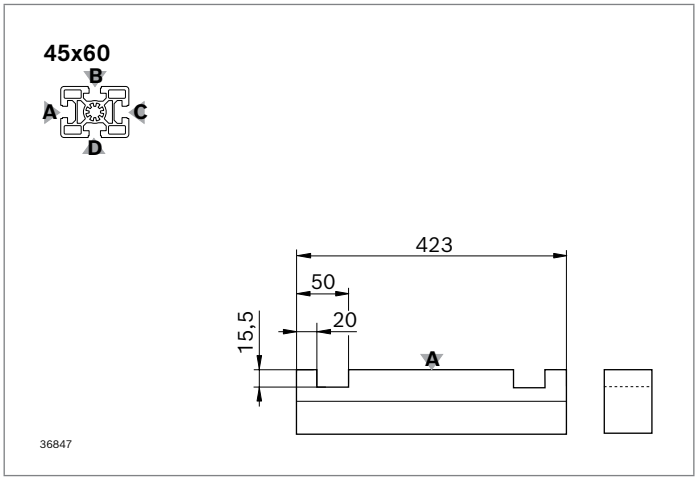



**Example:**
**3 842 993 729 / 383 / A=F1/F1; D=F1/F1**
Profile 40x80L 4N / L = 383 mm /
Slot A: Cross milling at profile start / cross milling at profile end
Slot D: Cross milling at profile start / cross milling at profile end

### Other examples

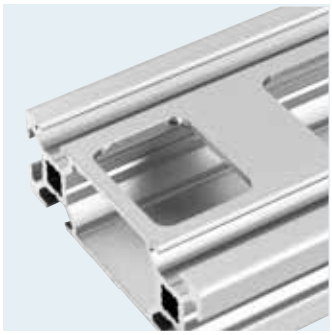
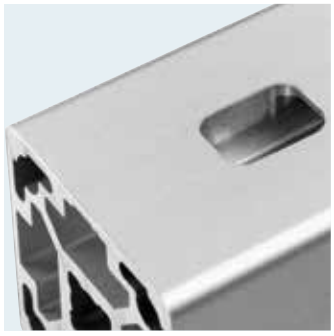
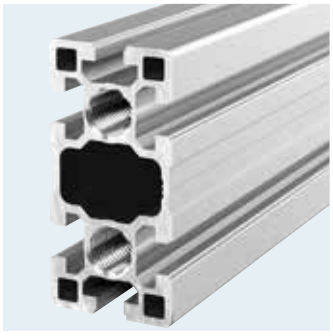


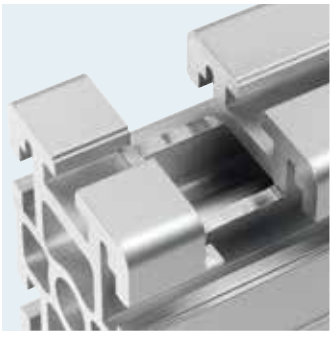

**Example:**
**3 842 993 676 / 390 / A=F1/F1; G=F1/F1**




**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:

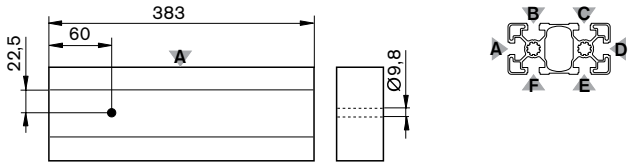
- Through-hole
- Blind holes
- Stepped drilling
- Cross milling (transversely to the longitudinal axis)
- Lengthwise milling (in longitudinal axis)
- Miter cuts

Notice:
Depending on the selected finishing options, minimum and maximum lengths must be observed when ordering.

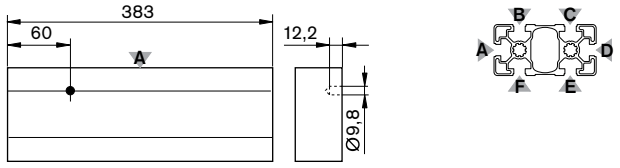


## Order examples for profile 45x90, L = 383 mm

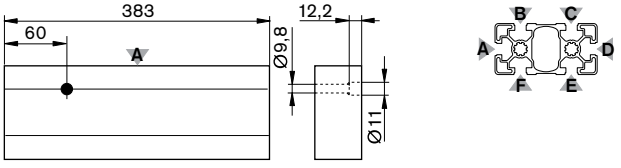
**DI** **Through-hole next to the slot**
3 842 993 661 / 383 / [B=DI; PS=60; OS=22.5; DM=9.8]



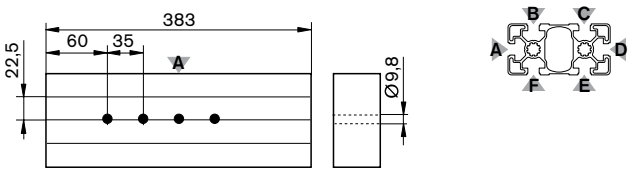

**Blind hole**
3 842 993 661 / 383 / [B=DI; PS=60; DM=9.8; HT=12.2]




**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

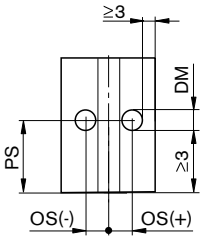
### Drill hole DI

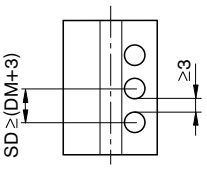
- Through-hole with diameter (**DM**) at any points of the profile (**PS, OS**). Please note the information on OS in the table.
- Blind hole by additional specification of drilling depth (**HT**)
- Stepped drilling by two drill holes at the same position of the profile
- Observe required minimum wall 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 | |
|---|---|---|---|
| **Drill hole** | **DI** | **PS** | Center point of hole |
| | | | $PS_{min}$ = DM/2 + 3 mm; $PS_{max}$ = L – (DM/2 + 3 mm) |
| | | *OS (optional)* | Offset starting point |
| | | | Select OS so that the hole does not cut through any slot edges |
| | | **DM** | Hole diameter |
| | | | DM, see table |
| | | *HT (optional)* | Depth of drilling. Through-holes made if no information provided. |
| | | | $HT_{max}$, see table |
| **Drilling sequence** | **DIS** | **PS, OS, DM, HT** | As for drill hole DI |
| | | **SN** | Number of finishes |
| | | | $SN_{max}$ = INT((L – 3 – PS – DM/2)/ SD) + 1 |
| | | **SD** | 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 |

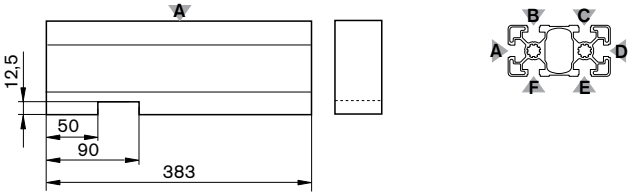
ATTENTION: If $HT_{max}$ is not sufficient to drill through the profile, you must order two opposite bores!

**Order key:**
**Material number / length / [slot designation=DI; PS=...;** *OS=...*; **DM=...;** *HT=...*; **]** *[...]*
**Material number / length / [slot designation=DIS; PS=...;** *OS=...*; **DM=...;** *HT=...*; **SN=...; SD=...];** *[...]*

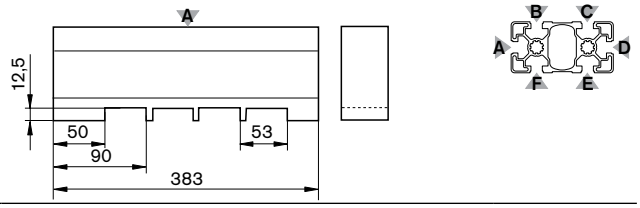


## Order examples for profile 45x90, L = 383 mm

**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]




## Cross milling

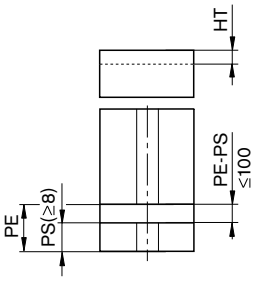
### Cross milling MT

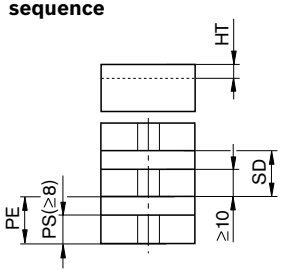
- Cross milling at any point of the profile (slot designation **PS**) with variable depth (**HT**) and length (**PE – PS**); the width corresponds to the profile width.
- Observe required minimum wall thickness ($PS_{min}$, $PS_{max}$)!

### Cross milling sequence MTS

- Regular sequence of identical cross milling (**SN**, **SD**)
- Observe required minimum wall thickness ($SD_{min}$)!

| End finishing | Abbreviation | Parameter | |
|---|---|---|---|
| **Cross milling** | **MT** | **PS** | Starting point of milling (Profile cut surface distance – Cross milling leading edge) |
| | | | $PS_{min}$ = 8 mm<br>$PS_{min}$ = 60 mm on the underside of the profile |
| | | **HT** | Depth of milling |
| | | | $HT_{max}$ = 5.5 mm (slot 6 mm)<br>$HT_{max}$ = 9.0 mm (slot 8 mm)<br>$HT_{max}$ = 12.5 mm (slot 10 mm) |
| | | **PE** | Starting point of milling (Profile cut surface distance – Cross milling trailing edge) |
| | | | $PE_{max}$ = L – 8 mm<br>8 mm ≤ PE – PS ≤ 100 mm |
| **Cross milling sequence** | **MTS** | **PS, HT, PE** | As for cross milling MT |
| | | **SN** | Number of finishes |
| | | | $SN_{max}$ = INT((L – 8 – PE)/ SD)+1 |
| | | **SD** | Distance between adjacent finishes |
| | | | $SD_{min}$ = (PE – PS) + 10 |



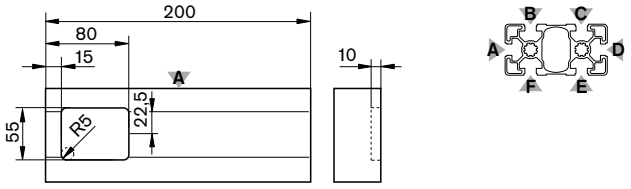




**Order key:**
**Material number / length / [slot designation=MT; PS=...; HT=...; PE=...];** *[...]*
**Material number / length / [slot designation=MTS; PS=...; HT=...; PE=...; SN=...; SD=...];** *[...]*

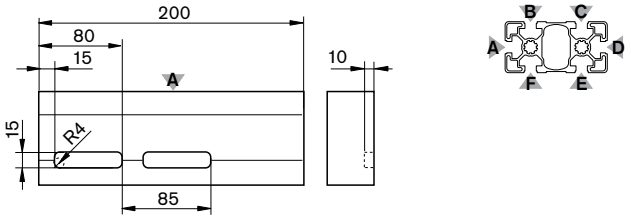


## Order examples for profile 45x90, L = 200 mm

**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

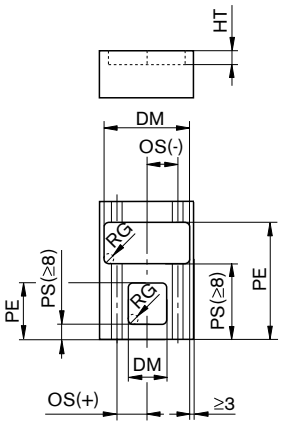
### Lengthwise milling MI

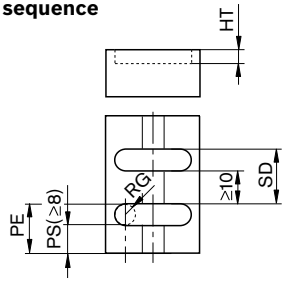
- Lengthwise milling at any point of the profile (slot designation **PS**, **OS**) with variable depth (**HT**), width (**DM**) and length (**PE – PS**). The milling corner radius is defined by the radius of the milling tool (**RG**).
- Observe required minimum distances ($PS_{min}$, $PS_{max}$, $DM_{max}$)!

### Lengthwise milling sequence MIS

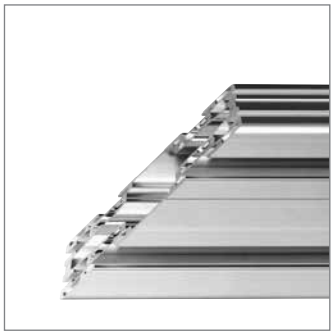
- Regular sequence of identical lengthwise milling (**SN**, **SD**)
- Observe required minimum wall thickness! ($SD_{min}$)

| End finishing | Abbreviation | Parameter | |
|---|---|---|---|
| **Lengthwise milling** | **MI** | **PS** | Starting point of milling |
| | | | $PS_{min}$ = 8 mm<br>$PS_{min}$ = 60 mm on the underside of the profile (see order tables for guidance) |
| | | *OS (optional)* | Offset starting point |
| | | **DM** | Milling width |
| | | | $DM_{min}$ = 8 mm<br>$DM_{max}$ = profile width/ height – 6 mm<br>At least 3 mm of profile must remain on both sides |
| | | **HT** | Depth of milling. |
| | | | $HT_{max}$ = 5.5 mm (slot 6 mm)<br>$HT_{max}$ = 9.0 mm (slot 8 mm)<br>$HT_{max}$ = 12.5 mm (slot 10 mm) |
| | | **PE** | End point of milling |
| | | | $PE_{max}$ = L – 8 mm<br>8 mm ≤ PE – PS ≤ 100 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 |
| | | | $SN_{max}$ = INT(L – 8 – PE/SD) + 1 |
| | | **SD** | Distance between adjacent finishes |
| | | | $SD_{min}$ = (PE – PS) + 10 |



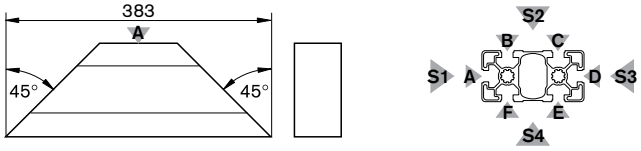




**Order key:**
**Material number / length / [slot designation=MI; PS=...;** *OS=...*; **DM=...; HT=...; PE=...; RG=R..];** *[...]*
**Material number / length / [slot designation=MIS; PS=...;** *OS=...*; **DM=...; HT=...; PE=...; RG=R..; SN=...; SD=...];** *[...]*

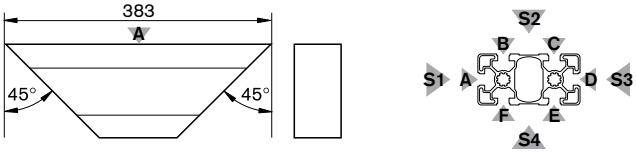


## Order examples for profile 45x90, L = 383 mm

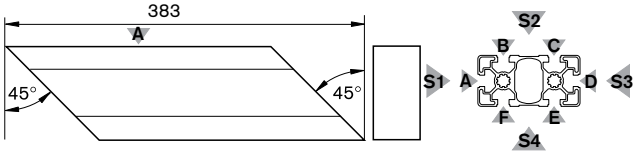
**MT** **Miter cut on both sides through side S3 (side with slot D)**
3 842 993 661 / 383 / [FS=S3; DG=45]; [BS=S3; DG=45]




**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]

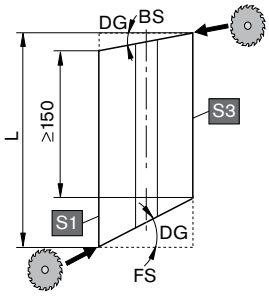



## Miter cut

### 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

| End finishing | Abbreviation | Parameter | |
|---|---|---|---|
| **Miter cut** | – | **FS** | Front side: Designation of the profile end the miter cut is to be performed at<br>S1, S3: Profile side on which the miter cut begins |
| | | | FS = S1; FS = S3 |
| | | **BS** | Back side: Opposite profile end<br>S1, S3: Profile side on which the miter cut begins |
| | | | BS = S1; BS = S3 |
| | | **DG** | Miter bracket |
| | | | DG > 0<br>The angle is always specified as a positive value; orientation results from FS/BS and the side on which the miter cut begins.<br>Note the maximum permissible miter angle.<br>For a single-sided miter $L_{min}1$.<br>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/mm² | Minimum tensile strength (in direction of pressure) |
| $R_{p0.2}$ | = 195 N/mm² | 0.2 % proof stress (in direction of pressure) |
| $A_5$<br>$A_{10}$ | = 10 %<br>= 10 % | Ductile yield $A_5$ or $A_{10}$ |
| E | = 70000 N/mm² | Modulus of elasticity E |
| 75 HB | | Brinell hardness |
| $\alpha_{(-50 \ldots +20\ °C)}$<br>$\alpha_{(+20 \ldots 100\ °C)}$ | = 21.8 x $10^{-6}$ 1/K<br>= 23.4 x $10^{-6}$ 1/K | Longitudinal expansion coefficient |
| μ | = 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 |

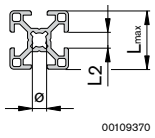
| $L_{max}$ | 80 | 90 | 120 | 160 |
|---|---|---|---|---|
| **t** | +0.8 | ±0.4 | +1.0 | +1.6 |

| $L_{max}$ | 180 | 270 | 360 |
|---|---|---|---|
| **t** | ±0.6 | ±1.0 | ±1.5 |

| **L2** | 6 | 8 | 10 |
|---|---|---|---|
| **t** | +0.3 | +0.3 | +0.4 |

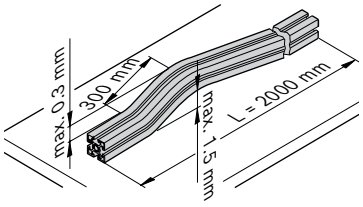
| **Ø** | 5.5 | 7.3 | 10 | 15 |
|---|---|---|---|---|
| **t** | −0.1<br>+0.2 | −0.1<br>+0.2 | ±0.15 | ±0.15 |

Permitted dimensional tolerance t (mm) for profiles from different deliveries

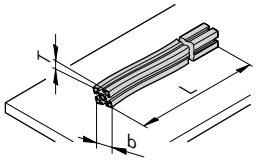


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Deviation limits and form tolerances according to DIN EN 12020-2
Rexroth profiles generally fall well within the generally applicable tolerances specified in the standard. They are specifically defined for the individual products.




Longitudinal straightness tolerance of profile



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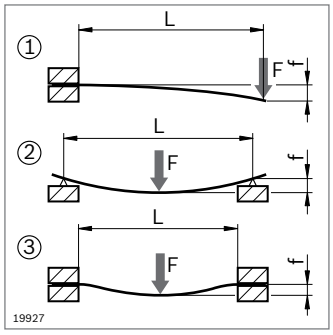
Longitudinal torsional tolerance of profile

| **Width *b* in (mm)** | **Torsional tolerance *T* for nominal length *L* in (mm)** | | | | | |
|---|---|---|---|---|---|---|
| | L ≤ 1000 | 1000 < L ≤ 2000 | 2000 < L ≤ 3000 | 3000 < L ≤ 4000 | 4000 < L ≤ 5000 | 5000 < L ≤ 6000 |
| ≤ 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

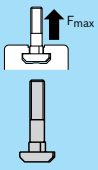
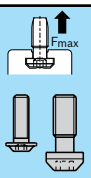
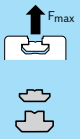
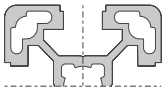
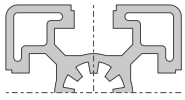
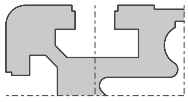



| | |
|---|---|
| $f_{①} = \frac{F \times L^3}{3\ E \times I \times 10^4}$<br>$f_{②} = \frac{F \times L^3}{48\ E \times I \times 10^4}$<br>$f_{③} = \frac{F \times L^3}{192\ E \times I \times 10^4}$ | Profile deflection due to force F for static load cases ①②③ |
| $f_{①} = \frac{m' \times g \times L^4}{8\ E \times I \times 10^4}$<br>$f_{②} = \frac{5 \times m' \times g \times L^4}{384\ E \times I \times 10^4}$<br>$f_{③} = \frac{m' \times g \times L^4}{384\ E \times I \times 10^4}$ | Profile deflection due to the profile's own weight |
| $\sigma_{①} = \frac{(m' \times g \times L + F) \times L}{W \times 10^3}$<br>$\sigma_{②} = \frac{(m' \times g \times L + F) \times L}{4\ W \times 10^3}$<br>$\sigma_{③} = \frac{(m' \times g \times L + F) \times L}{8\ W \times 10^3}$ | Control of max. occurring bending stress $\sigma_{b\ max}$ |
| $\sigma_{b\ max} < \sigma_{b\ zul.}$!<br>$\sigma_{b\ zul.} = \frac{R_{p0,2}}{S_{F\ erf.}}$ | $S_{F\ erf}$: Safety value required to avoid deformation (flow)<br>$\sigma_{b\ zul}$: Max. permissible bending stress |

| | |
|---|---|
| f (mm) | W ($cm^3$) |
| F (N) | E = 70000 $N/mm^2$ |
| L (mm) | m' (kg/mm); m' = m/1000; m (p. 2-3 ... 2-6) |
| I ($cm^4$) | g = 9.81 $m/s^2 \approx 10\ m/s^2$ |

# Profile slot load-bearing capacity

Static load limit values of slot (beginning of plastic deformation) **for connectors with the largest thread in each case**

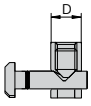
| | | |  T-bolt |  T-nut |  Central bolt |  Swivel-in sliding block |  Sliding block |
|---|---|---|---|---|---|---|---|
| 6 |  | 20x20, 20x20R<br>10x40<br>20x40, 20x60<br>20x40x40 | 1700 N | 1700 N | 2000 N | – | 3000 N |
| 8 |  | 30x30, 30x30R<br>30x30°, 30x45°, 30x60°<br>11x20, 15x120<br>30x45, 30x60, 30x60x60<br>30x90, 30x120 | 4000 N | 4000 N | 5000 N | 2200 N | 6000 N |
| 10 |  | 90x90SL<br>40x40L, 40x40L R<br>40x30°, 40x45°, 40x60°<br>40x80L, 40x120L, 40x160L<br>40x80x80L<br>80x80L<br>80x120L, 80x160L<br>45x45L, 45x45L R<br>45x30°, 45x45°, 45x60°<br>15x22.5, 15x180, 22.5x45<br>45x90L, 45x90x90L<br>45x135L<br>50x50L, 50x50L R<br>50x100L, 50x150L<br>100x100L, 100x200L<br>60x60L | 6000 N<br>7000 N | 6000 N<br>7000 N | 9000 N<br>10000 N | 8000 N<br>9000 N | 11000 N<br>12000 N |
| |  | 45x45<br>60x60<br>90x90L<br>22.5x180<br>45x60<br>45x90, 45x180<br>90x180L<br>90x135L | 12000 N | 12000 N | 15000 N | 13000 N | 17000 N |
| |  | 45x270<br>60x90<br>90x90<br>90x180<br>90x360 | 18000 N | 18000 N | 22000 N | 18000 N | 24000 N |

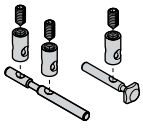
# Load capacity of profile connection

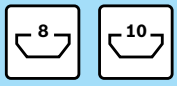
The specified tightening and loading limit values were determined as an example in (dry) trials. Safety factors and building regulations in accordance with the law and accepted engineering practices must be observed.

**Static load limit values of the connection (beginning of plastic deformation)**

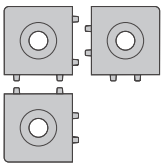
| 6 8 10 | D | Slot | | | $F_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|---|
|  | 8 | 6 / 6 | ↻ | 2.5 Nm | 450 N | 18 Nm |
| | 11 | 8 / 8 | ↻ | 12 Nm | 500 N | 40 Nm |
| | 11 | 8 / 10 | ↻ | 12 Nm | 2000 N | 70 Nm |
| | 17 | 10 / 10 | ↻ | 25 Nm | 4000 N | 140 Nm |
| Quick connector (p. 3-56) | 9.8 | 10 / 10 | ↻ | 6 Nm | 800 N | 50 Nm |

| 6 8 10 | D | Slot | | | $F_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|---|
|  | 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 | 140 Nm |

| 8 10 | Slot | | | $F_{max}$ | $M_{max}$ | $M_{max}$ | $F_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|---|---|---|
|  | 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 | 180 Nm |

|  | | Slot | | | $F_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|---|---|
|  | 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 | | | $F_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|---|
|  | 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 | 80 Nm |

| | | Slot | | | | $M_{max}$ | $M_{max}/2$ + $M_{max}/2$ |
|---|---|---|---|---|---|---|---|
|  | 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 |
| | 50/2 | 10 | ↻ | 35 Nm | | 120 Nm | |
| Cubic connector (p. 3-45) | 50/3 | 10 | ↻ | 35 Nm | | | 140 Nm |

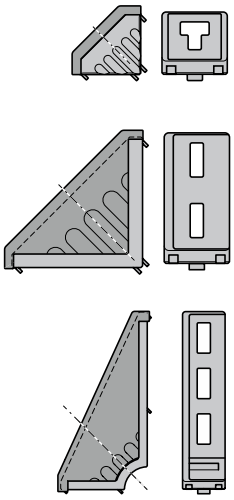
| | | Profile | Slot | | | $F_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|---|---|---|
|  | SV8 | 30x... | 8 | ↻ | 6 Nm | 1000 N | 35 Nm | 15 Nm |
| | SV 10L | 45x... L | 10 | ↻ | 15 Nm | 3500 N | 110 Nm | 30 Nm |
| | SV 10 | 40x..., 45x... | 10 | ↻ | 25 Nm (M8)<br>5 Nm (M5) | 3500 N | 110 Nm | 30 Nm |
| Tensioning connector (p. 3-13) | | 60x... | 10 | ↻ | 15 Nm | 3500 N | 195 Nm | 60 Nm |

| | Slot | | | $F_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|---|
|  | 8 / 8 | ↻ | 2.5 Nm (M4)<br>10 Nm (M8) | 1000 N | 35 Nm | 15 Nm |
| | 8 / 10 | ↻ | 2.5 Nm (M4)<br>10 Nm (M8) | 1000 N | 35 Nm | 15 Nm |
| Slot connector (p. 3-14) | 10 / 10 | ↻ | 7 Nm (M6)<br>12 Nm (M10) | 3000 N | 110 Nm | 30 Nm |

| | Slot | | | $F_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|
|  | 8 / 8 | ↻ | 12 Nm | 2200 N | 50 Nm |
| | 10 / 10 | ↻ | 15 Nm | 2800 N | 100 Nm |
| Inner bracket (p. 3-15) | | | | | |

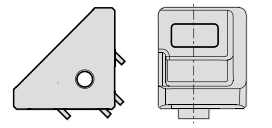
| | Slot | | | $F_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|
|  | 6 / 6 | ↻ | 3 Nm | 600 N | 10 Nm |
| | 8 / 8 | ↻ | 12 Nm | 2500 N | 50 Nm |
| Inner bracket R (p. 3-16) | 10 / 10 | ↻ | 15 Nm | 3000 N | 100 Nm |



| | Slot | | | $F_{max}$ | $M_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|---|---|
| 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 |

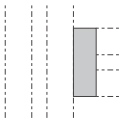
Bracket (p. 3-19)



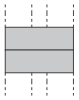



| | Slot | | | $F_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|---|
| S 20x20 | 6 | ↻ | 2.5 Nm | 700 N | 3.6 Nm | 25 Nm |
| S 30x30 | 8 | ↻ | 8.5 Nm | 1250 N | 16 Nm | 75 Nm |
| S 40x40 | 10 | ↻ | 25 Nm | 3000 N | 36 Nm | 160 Nm |
| S 45x45 | 10 | ↻ | 25 Nm | 3000 N | 36 Nm | 160 Nm |

Bracket S (p. 7-8)

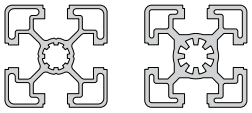
| 8 | 10 | | Slot | | $F_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|---|
|  | | 30x30 | 8 | 25 Nm (M8) / 5 Nm (M5) | 4000 N | 80 Nm |
| | | 40x40 | 10 | 35 Nm (S12) / 10 Nm (M6) | 9000 N | 150 Nm |
| | | 45x45 | 10 | 35 Nm (S12) / 10 Nm (M6) | 9000 N | 200 Nm |
| | | 50x50 | 10 | 35 Nm (S12) / 10 Nm (M6) | 10000 N | 170 Nm |

T-connector (p. 3-53)

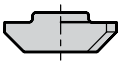
| 8 | 10 | | Slot | | $M_{max}$ |
|---|---|---|---|---|---|
|  | | 30x30 | 8 | 25 Nm (M8) / 5 Nm (M5) | 81 Nm |
| | | 40x40 | 10 | 35 Nm (S12) / 10 Nm (M6) | 170 Nm |
| | | 45x45 | 10 | 35 Nm (S12) / 10 Nm (M6) | 200 Nm |
| | | 50x50 | 10 | 35 Nm (S12) / 10 Nm (M6) | 180 Nm |

End connector (p. 3-51)

**Profile connection load capacity with radial compensation (p. 2-94)**

| | | | Slot | | $F_{max}$ | $M_{max}$ | $M_{max}$ |
|---|---|---|---|---|---|---|---|
|  | 30x30 | S8 | 8 | 25 Nm | 600 N | 37 Nm | 28 Nm |
| | | | 8 / 8 | 12 Nm | 600 N | 37 Nm | 28 Nm |
|  | 40x40 | M12<br>S12 | 10 | 30 Nm | 1000 N | 47 Nm | 55 Nm |
| | | | 10 / 10 | 22 Nm | 1000 N | 47 Nm | 55 Nm |
|  | 45x45 | S12<br>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)

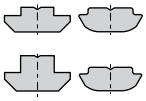





| | Slot | | |
|---|---|---|---|
| M6 | 8 | ↻ | 10 Nm |
| M8 | 10 | ↻ | 25 Nm |

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)

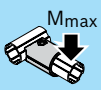
# Lifting eye bolt load capacity data

| | Page |  One cable, vertical |  Two cables, vertical |  Two cables, ß 0 ... 45 |  Two cables, ß 45 ... 60 |  Two cables, asymmetrical |  Three or four cables, ß 0 ... 45 |  Three or four cables, ß 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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