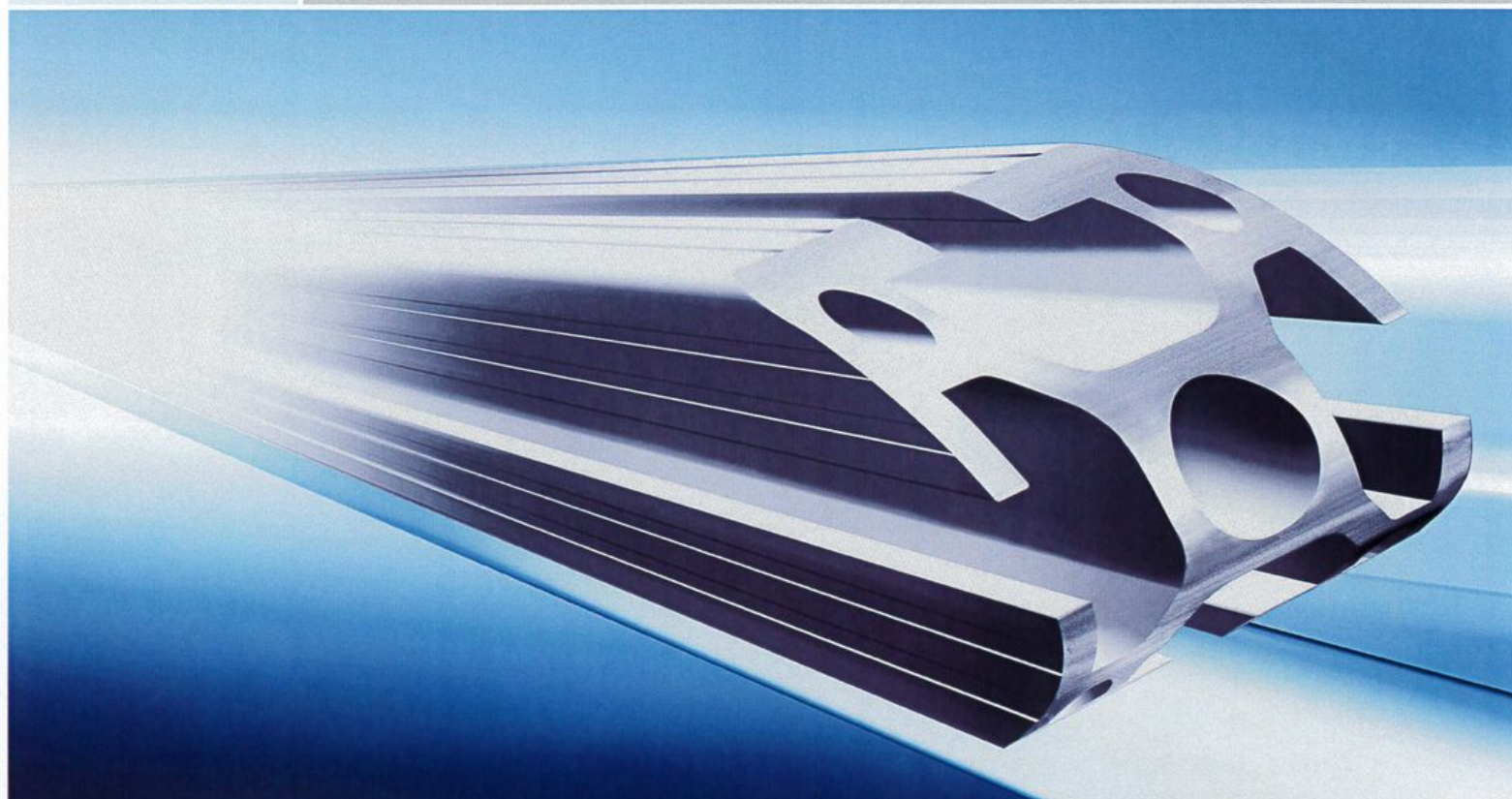


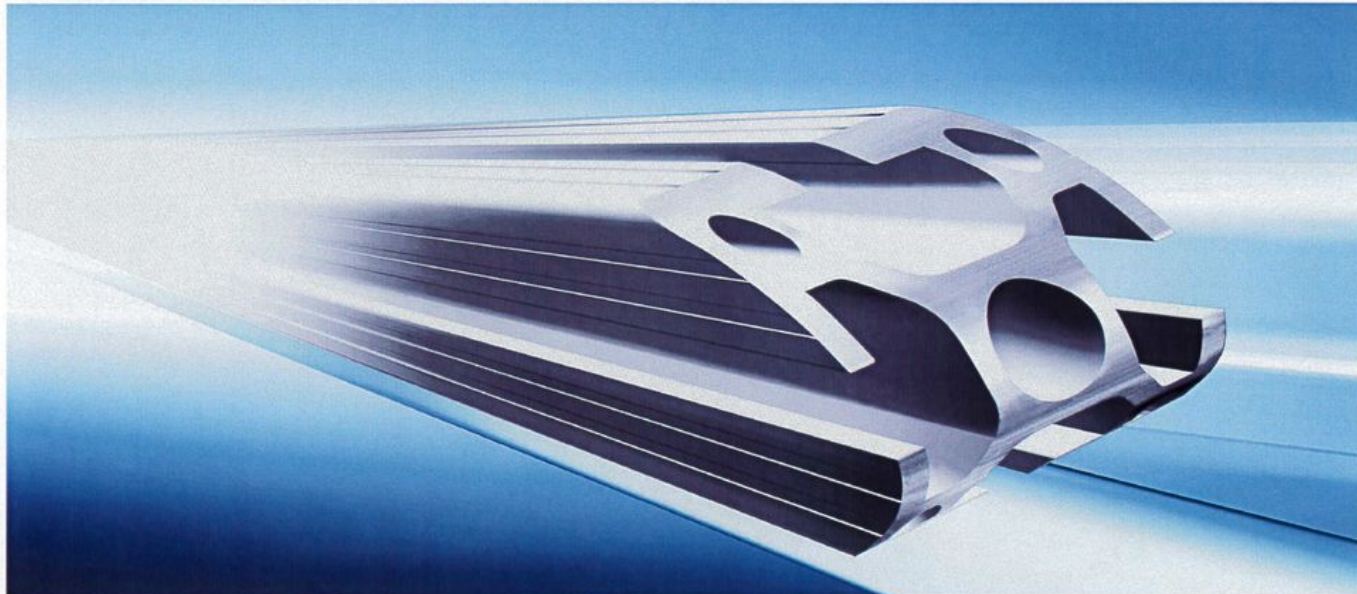


» The Profile System

GB
1/2023

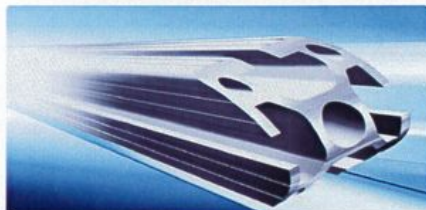
 **MayTec®**

The key ...



» The Profile System

powered by
MayCAD
Design Software



The Profile System



The Clean-Room System



The Tube Clamping System



The Conveyor System



The Telescopic System



The Linear System



The Personnel Transfer System



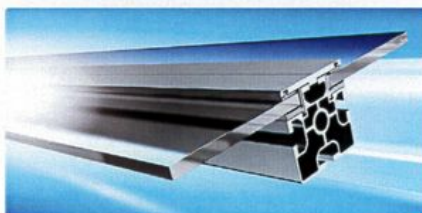
The Skid Transfer System



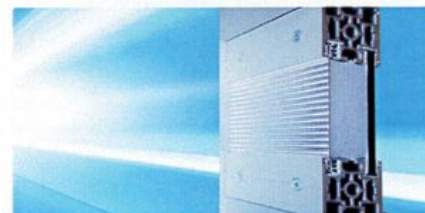
The Dust Protection System



Safety Barriers

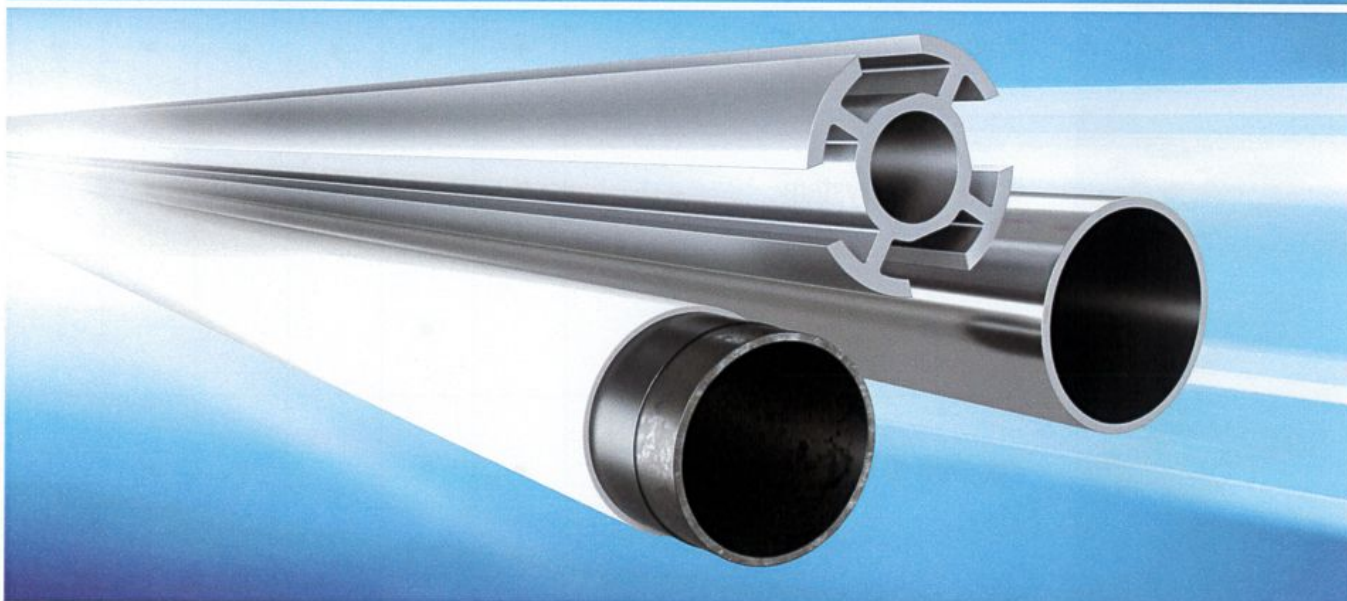


The Modular Wall System



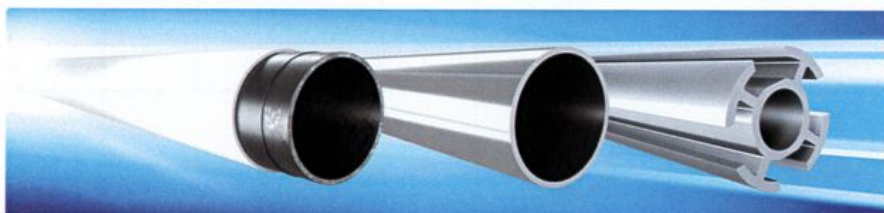
Noise Resist

... to success !



» The Pipe & Joint System

powered by
MayTube
Design Software



The Pipe & Joint System



The Trailer System

The ideal modular system

MayTec offers a comprehensive, harmonised modular system. All modules can be combined in any way conceivable.

The accessories provide functional and aesthetic solutions for a wide range of applications.

Service

The MayTec service is as versatile as the MayTec modular system.

You may choose:

- delivery of standard elements ex-factory
- delivery of profiles, pipes and accessories cut to size according to parts list for customer's assembly
- delivery of pre-fitted modular components
- delivery of completely assembled units
- assembly at your premises

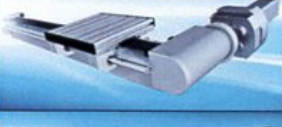
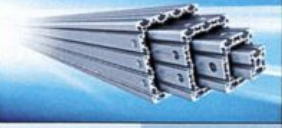
Implementation

The MayTec modular system is easy to process and quick to assemble. Its flexible and modular construction means it can be easily modified and is reusable at any time.

An experienced team will support you in implementing the MayTec system, tailored to your individual applications, taking into consideration your dimensions, loading capacity and stability.

Applications

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> • assembly and inspection stations • display systems • exhibition cabinets and stands • FiFo shelves • flow shelves | <ul style="list-style-type: none"> • machine bases • machine enclosures • machine guarding • partitions and protective walls • plant equipment | <ul style="list-style-type: none"> • protective and work cabinets • sequence trolleys • special shelves • transfer and supply trolleys • work stations |
|---|---|---|

	Title	DE	GB	FR	ES	IT	CZ
	Product Summary	•	•	•	•	•	•
	The Profile System	•	•	•	•	•	
	The Inch System		•				
	The Pipe & Joint System	•	•		•	•	
	The Trailer System	•	•			•	
	The Conveyor System	•	•	•		•	
	The Linear System	•	•				
	The Modular Wall System	•	•			•	
	Safety Barriers	•	•				
	The Tube Clamping System	•					
	The Telescopic System	•	•			•	
	MayCAD / MayTube	•	•	•	•	•	

Download at <http://maytec.com.de>

Offline

MayCAD Design Software
3D CAD-Tool for The Profile System
3D configuration module for The Conveyor System

Free download at:

<http://maytec.com.de/index.php?id=21>

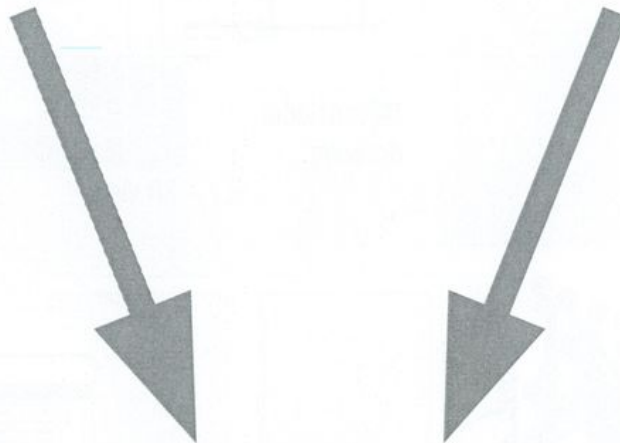
System requirements

- Microsoft Windows
- Graphics card with OpenGL (from version 3.3)

Online

MayTube Design Software
3D CAD-Tool for The Pipe & Joint System

Link:

<https://may-tube.com>

In preparation:

Offline

MayCAD Design Software
3D CAD-Tool for The Profile System and The Pipe & Joint System
3D configuration module for The Conveyor System

MayCAD

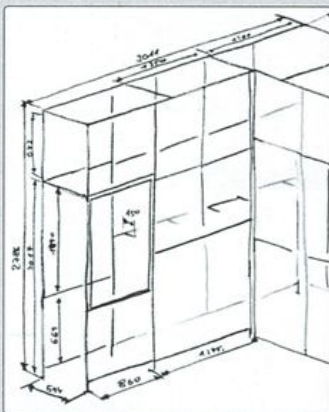
Design Software

Offline 3D CAD-Tool

- Free to use
- Easy to install
- 80% faster
- Export function for 3D models and parts list

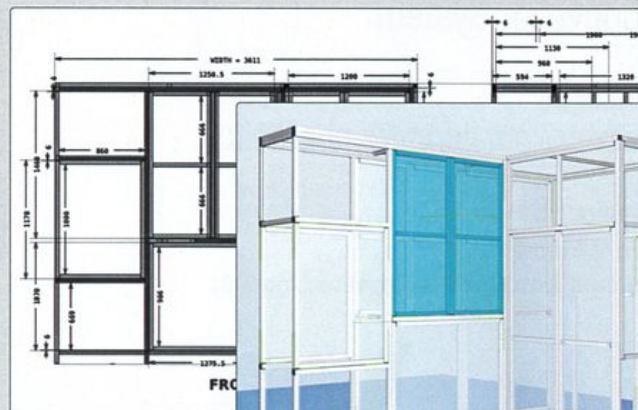
Sample

Machine enclosure



Hand sketch

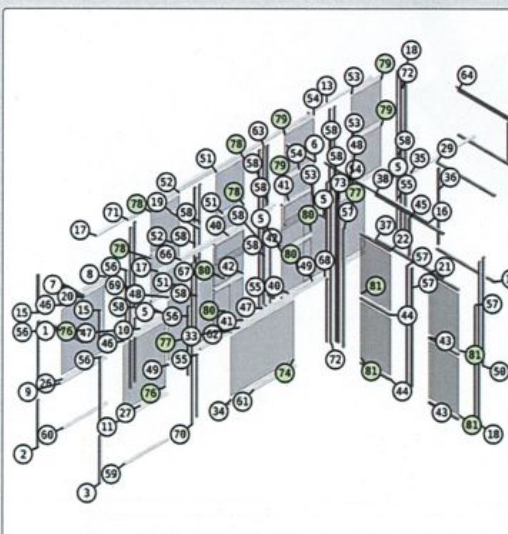
Input in
MayCAD



Dimensional drawing



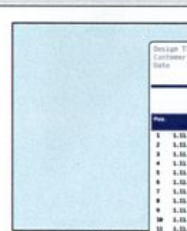
3D view



Exploded view with part numbers



DRAWING 5, Pos 7B
Shape measurements



DRAWING 6, Pos 79
Shape measurement



DRAWING 7, Pos 80
Shape measurement



DRAWING 8, Pos 81
Shape measurement

Detailed drawings for all panel elements

[illegible]

Parts list with calculations

MayCAD

Download link:

Download link:
www.maytec.de/index.php?id=21

MayCAD

Design Software

Offline 3D configuration module
for layout planning

Sample

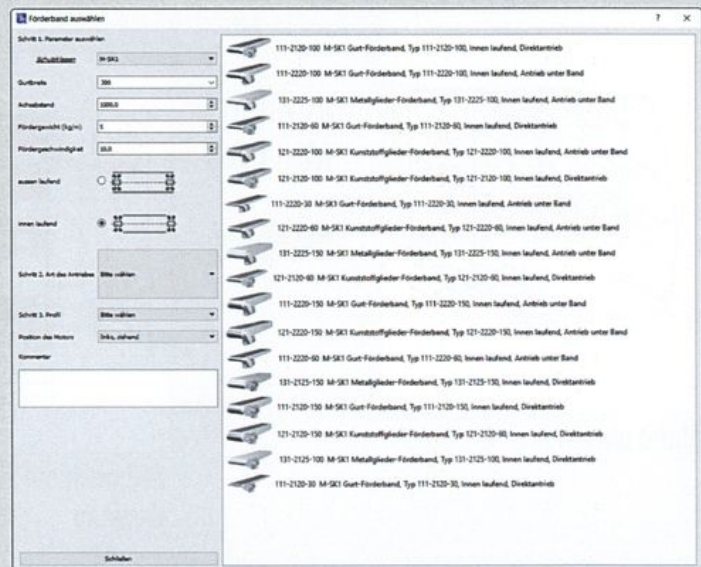
M-SK1 Belt conveyor
Type 111-2220-100

- running inside
- drive under belt

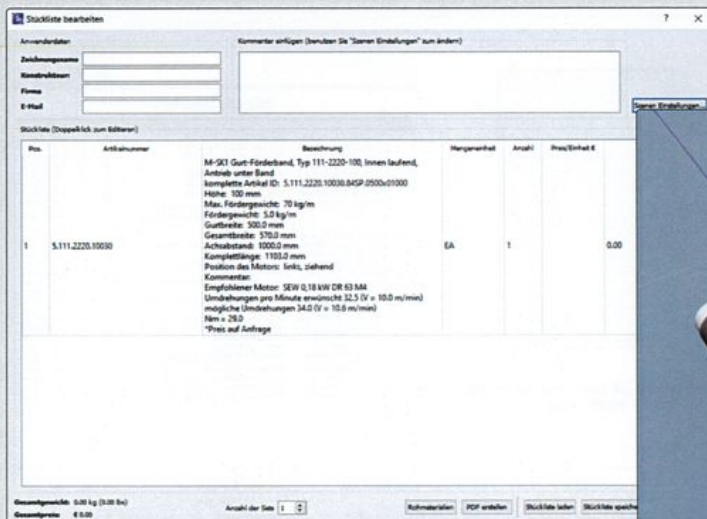
Configuration in
MayCAD



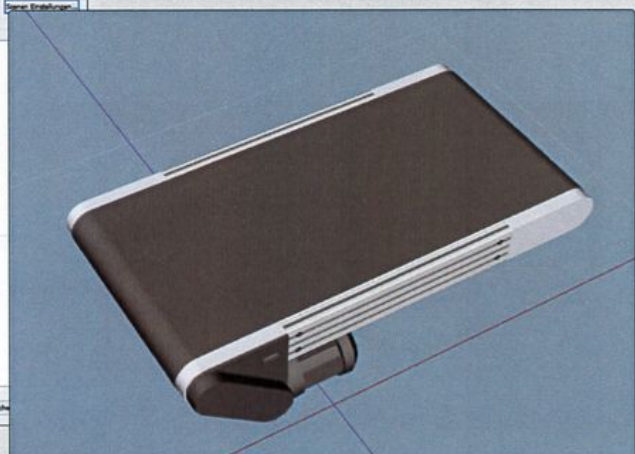
Complete in 2 min. ... Ready



Conveyor configuration



Article number with description



3D model for use in CAD systems

MayCAD

Download link:

www.maytec.com.de/index.php?id=21

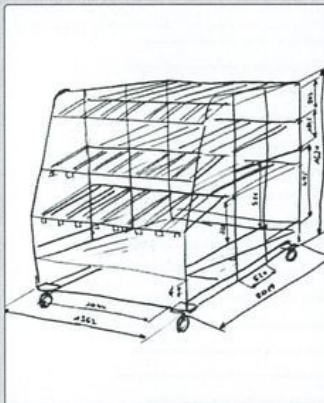
MayTube
Design Software

Online 3D CAD-Tool

- Free to use
- No software installation required
- 80% faster
- Export function for 3D models and parts list

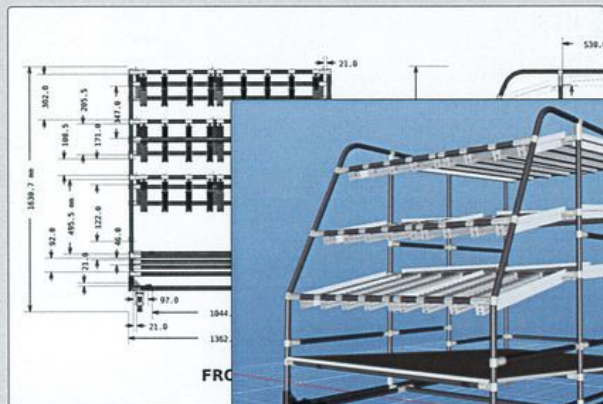
Sample

Kanban material conveyancing Complete in 90 min. ... Ready

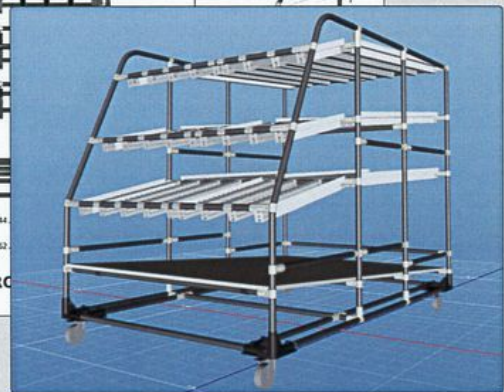


Hand sketch

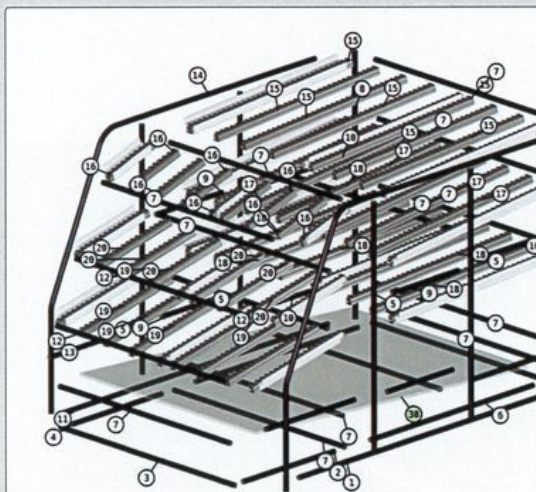
Input in
MayCAD



Dimensional drawing



3D view



Exploded view with position numbers



**Chipboard 16 mm, similar to RAL
7035, #38**

Single part drawing for all panel elements

Design: 100007, 7.06.00 2000 Carvel Rotterdam BV
Designer: Marko Buijs
E-Mail: m.buijs@rotterdam.nl
Date: 05/07/2023

 Lennings 100007

Bill of Materials

Pos	Article-No.	Description	Units	Qty	Each	Price
1	21.10.126.38.00.0000000000	Sheet plate 600, 2,5, black, EN50	m	13	13,44	126.45
2	21.126.126.38.00.0000000000	Sheet plate 600, 2,5, black, EN50	m	4	13,44	53.76
3	21.10.126.38.00.0000000000	Sheet plate 600, 2,5, black, EN50	m	4	13,44	53.76
4	21.126.126.38.00.0000000000	Sheet plate 600, 2,5, black, EN50	m	7	13,45	94.15
5	21.10.126.38.00.0000000000	Sheet plate 600, 2,5, black, EN50	m	2	13,44	26.88
6	21.10.126.38.00.0000000000	Sheet plate 600, 2,5, black, EN50	m	2	13,44	26.88
7	21.10.126.38.00.0000000000	Sheet plate 600, 2,5, black, EN50	m	2	13,47	26.95
8	21.10.126.38.00.0000000000	Sheet plate 600, 2,5, black, EN50	m	2	13,48	27.06
9	21.10.126.38.00.0000000000	Sheet plate 600, 2,5, black, EN50. Corner, chamfer, square, separatory	m	2	6,88	13.76
10	21.10.1.000.12.30.0000000000	Corner guiding profile	m	1	14,58	14.58
11	21.10.1.000.12.30.0000000000	Nail/scr 7/8 low weiss, black nickel, EN50	m	12	10,17	122.08
12	21.10.1.000.12.30.0000000000	Corner guiding profile	m	1	9,52	9.52
13	21.10.1.000.12.30.0000000000	Nail/scr 7/8 low weiss, black nickel, EN50	m	108	11,15	1204.80
14	21.10.1.000.12.30.0000000000	Corner guiding profile	m	2	10,60	21.20
15	21.10.1.000.12.30.0000000000	Nail/scr 7/8 low weiss, black nickel, EN50	m	1	14,58	14.58
16	21.10.1.000.12.30.0000000000	Corner guiding profile	m	1	14,58	14.58
17	21.10.1.000.12.30.0000000000	Nail/scr 7/8 low weiss, black nickel, EN50	m	11	14,58	160.77
18	21.10.1.000.12.30.0000000000	Corner guiding profile	m	1	14,17	14.17
19	21.10.1.000.12.30.0000000000	Nail/scr 7/8 low weiss, black nickel, EN50	m	108	10,73	1159.23
20	21.10.1.000.12.30.0000000000	Corner guiding profile	m	2	10,60	21.20
21	21.10.1.000.12.30.0000000000	Nail/scr 7/8 low weiss, black nickel, EN50	m	1	9,85	9.85
22	21.10.1.000.12.30.0000000000	Corner guiding profile	m	1	6,10	14.41
23	21.10.1.000.12.30.0000000000	Nail/scr 7/8 low weiss, black nickel, EN50	m	1	12,18	12.18
24	21.10.1.000.12.30.0000000000	Side guiding profile with offset, heavy	m	2	8,85	17.80
25	21.10.1.000.12.30.0000000000	Side guiding profile with offset, heavy	m	2	13,82	27.65
26	21.10.1.000.12.30.0000000000	Side guiding profile with offset, heavy	m	2	13,82	27.65
27	21.10.1.000.12.30.0000000000	Side guiding profile with offset, heavy	m	2	8,85	17.80
Ende parts						
40	21.10.1.100.0000000000	Nail/scr track profile 40	Stk	4	1,47	5.88
41	21.10.1.100.0000000000	Nail/scr track profile 40 with stop	Stk	4	1,54	6.16
Ende parts						
1	21.10.1.100.0000000000	Nail/scr track 40 with stop	Stk	37	3,36	123.72
Total weight:			200.30 kg	Total amount:	12476.98	

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General

Profile group

16 mm, 20 mm, 30 mm, 40 mm, 45 mm, 50 mm, 60 mm

The profiles of the MayTec Profile System are divided into seven **profile groups (PG)**. They can be determined by the basic measure of each profile.

Slot

H-slot, F-slot, E-slot

In order to connect the profiles or to mount accessories the profiles have slots. The MayTec Slot System (➤ 0.07) distinguishes between the three slot types H-slot, F-slot and E-slot, whereas E-slot exists as **E3-slot** and **E4-slot** (3 or 4 mm wall thickness).

Symbols

Many articles (fastening elements, accessories and tools) can only be used especially for individual profile groups or slot types.

In this case these articles are marked with the corresponding symbols.



Profile group

dark symbol: suitable for the corresponding profile group

light symbol: not suitable

Slot type

dark symbol: suitable for the corresponding slot type

light symbol: not suitable

Remark

The symbol for the E-slot is used, if the article is (un)suitable for the two slot types E3 and E4.



Cut

These articles are offered with cut.



Stainless steel

These articles are made of stainless steel.



Cleanroom

These articles are suitable for the use in and around cleanrooms.



ESD

ESD protection



Attention!

Important notice

Abbreviations

PG

profile group

e.g.: PG 30 = profile group 30 mm

L

light

profile characteristic: light type of construction

S

heavy

profile characteristic: heavy type of construction

P

plain

profile characteristic: no ornamental slots

Special characters



Placeholder

Article-No.

Example

1.41.5□□.□

identifies the articles:

1.41.5F0.1

1.41.5F0.2

1.41.5E0.1

1.41.5E0.2



Reference

Example

➤ 117

➤ 1.41

➤ 1.41.5F0.1

➤ 1.41.5□□.□

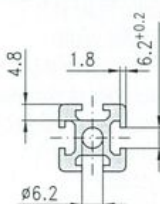
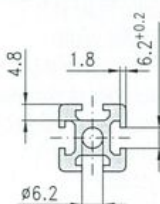
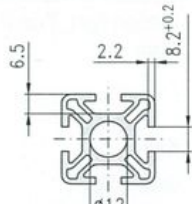
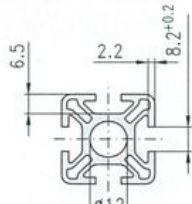
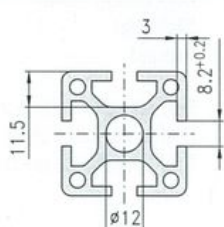
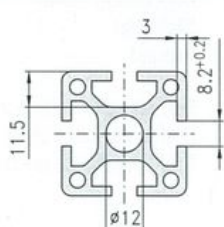
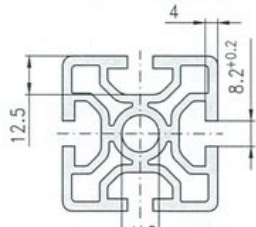
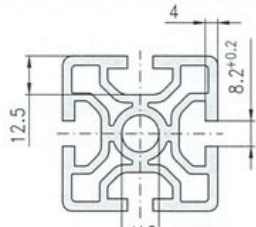
reference to

catalogue page 117

article number group 1.41

article 1.41.5F0.1

group of articles 1.41.5□□.□

Cross section of slots		Core hole-Ø	Slot width	Slot depth	Wall thickness	PG
H-slot 		6.2	6.2	4.8	1.8	20
F-slot 		12.0	8.2	6.5	2.2	20
						30
E3-slot 		12.0	8.2	11.5	3.0	40
E4-slot 		12.0	8.2	12.5	4.0	45
						50
						60

Profiles

1. 1 □ . □□□□□□ . □□□□□	Key
1. 1 □ . □□□□□□ . □□□□□	Core hole-Ø ¹⁾
1. 1 □ . □□□□□□ . □□□□□	Profile width
1. 1 □ . □□□□□□ . □□□□□	Profile height (all, but special profiles)
1. 1 □ . □□□□ R □□ . □□□□□	Number of degrees (round profiles)
1. 1 □ . □□□□ k t . □□□□□	Number of edges (special profiles)
1. 1 □ . □□□□□□ . □□□□□	Slot quantity ²⁾
1. 1 □ . □□□□□□ . □□□□□	Contour ³⁾
1. 1 □ . □□□□□□ . □□ L	Version light
1. 1 □ . □□□□□□ . □□ S	Version heavy
1. 1 □ . □□□□□□ . □□ B	Type B
1. 1 □ . □□□□□□ . □□ L B	Version light, Type B
1. 1 □ . □□□□□□ . □□ P	Plain

- ¹⁾ 0 = 6.2 mm
1 = 12 mm
- ²⁾ 2-digit off 10 slots
- ³⁾ 0 = round
1 = Soft
2 = Corner
3 = Cubic
4 = Rectangle
7 = Angle
8 = Angle 45°
9 = Special

Connectors - general

1. 2 □ . □□□□□	Key
1. 2 □ . □□□□□	Core hole ¹⁾
1. 2 □ . □□□□□	Profile width ²⁾
1. 2 □ . □□□□□	Head-variant ³⁾
1. 2 □ . □□□□□	Connection-variant ⁴⁾
1. 2 □ . □□□□ V □	Stainless
1. 2 □ . □□□□□ E	Ground
□/□ □/□ □/□	Special cases: Parallel-connector across and high Profile width for cross bushing Profile width for anchor

- ¹⁾ 0 = 6.2 mm
1 = 12 mm
- ²⁾ 2 = 20 mm
3 = 30 mm
4 = 40 mm
45 = 45 mm
5 = 50 mm
6 = 60 mm
- ³⁾ E = E-head
F = F-head
H = H-head
V = Extension
- ⁴⁾ 0 = Universal / Neutral
1 = Standard
2 = Standard 90°
4 = Square head
5 = Parallel

-Oblique-hinge

1. 2 □ . □□□□□	Key
1. 2 □ . □□□ K □□	Oblique-connector, hinge
1. 2 □ . □□□□□	Connection-variant ¹⁾
1. 2 □ . □□□□ V	Stainless

- ¹⁾ 1 = Standard
2 = Standard 90°

-Oblique-bent anchor

1. 2 □ . □□□□□ / □□□□	Key
1. 2 □ . □□□ B □□ / □□□□	Oblique-connector, bent anchor
1. 2 □ . □□□□□ / □□□□	Connection-variant ¹⁾
1. 2 □ . □□□□□ / □□□□	Design L/R
1. 2 □ . □□□□□ / □□□□	Angle
1. 2 □ . □□□□□ / □□ V □	Stainless
1. 2 □ . □□□□□ / □□□□ E	Ground

- ¹⁾ 1 = Standard
2 = Standard 90°

-Miter-hinge

1. 2 □ . □□□□□	Key
1. 2 □ . □□□ G □□	Miter-connector, hinge
1. 2 □ . □□□□□	Connection-variant ¹⁾
1. 2 □ . □□□□ V	Stainless

- ¹⁾ 1 = Standard
2 = Standard 90°

-Miter-bent anchor

1. 2 □ . □□□□□ / □□□□	Key
1. 2 □ . □□□ G □□ / □□□□	Miter-connector
1. 2 □ . □□□ B □□ / □□□□	Bent design
1. 2 □ . □□□□□ / □□□□	Connection-variant ¹⁾
1. 2 □ . □□□□□ / □□□□	Angle
1. 2 □ . □□□□□ / □□ V	Stainless

- ¹⁾ 1 = Standard
2 = Standard 90°

-Screw-type

1. 2 □ . □□□□□ / □□□□	Key
1. 2 □ . □□□ S □□□ / □□□□	Screw-type-connector
1. 2 □ . □□□□□ / □□□□	Type of anchor ¹⁾
1. 2 □ . □□□□ M □□ / □□□□	Thread
1. 2 □ . □□□□□□ / □□□□	Thread-Ø
1. 2 □ . □□□□□□ / □□□□	Screw special length
□/□ □/□ □/□	Special cases: Screw-type connector parallel across and high Profile width for cross bushing Profile width for anchor

- ¹⁾ 1 = Standard
2 = Parallel 20 mm
3 = Parallel 30 mm
4 = Parallel 40 mm
5 = Parallel 50 mm

	plain	plain	plain	plain
16	F 16x40 L S 1FLP 1.08	E 16x40 16x80 16x160 L S 1ELP 2ELP 4ELP 1ESP 2ESP 1.07		
20	H 20x20 L S 2HLP 4HLP 2Hs.SP 2Hc.SP 3HSP 4HSP 1.09	20x40 6HLP 4HSP 6HSP 1.10	F 20x10 20x30 L S 1FLP 1FLP 2FLP 1FSBP 2FSP 1.11	
30	F 30x30 30x50 30x60 30x100 30x150 L S 1FLP 2Fc.LP 2FLP 3FLP 4FLP 4FLP 2Fs.SP 0FSP 1FSP 2Fc.SP 2Fc.SBP 2FSP 3FSP 4FSP 4FSP 0FSP 6FSP 3FSP 8FSP 10FSP 8FSBP 1.12 1.13 1.14 1.15	E4 30x150 8ESP 1.15		
40	E3 40x40 40x80 40x120 40x160 80x80 L S 2Es.LP 1ELP 2Ec.LP 2ELP 3ELP 4ELP 0ELP 3Ec.LP 4ELP 4ELP 5ELP 6ELP 8ELP 6ELP 10ELP 0ELP 4Ec.LP 6ELP 8ELP 2Es.LP 2ELP 2ELP 2ELP 2E 45° LP 7E 45° LP 7ESP 8ESP 40 r.30° 40 r.45° 40 r.60° 40 r.90° 1.16 / 1.22 1.17 / 1.22 1.18 1.19 1.20 / 1.23			
45	E4 45x45 45x60 45x90 90x90 L S 2Es.LP 0ELP 1ELP 2Ec.LP 2ELP 3ELP 4ELP 4ELP 0ELP 6ELP 4ESP 0ESP 8ELP 8ESP 1.24 1.25 1.26			
50	E4 50x50 50x100 100x100 L S 4ESP 6ESP 8ESP 1.27			
60	E4 60x60 L S 2ELP 4ELP 2Ec.SP 2ESP 4ESP 1.28			

plain

plain



without grooves

grooves



with grooves

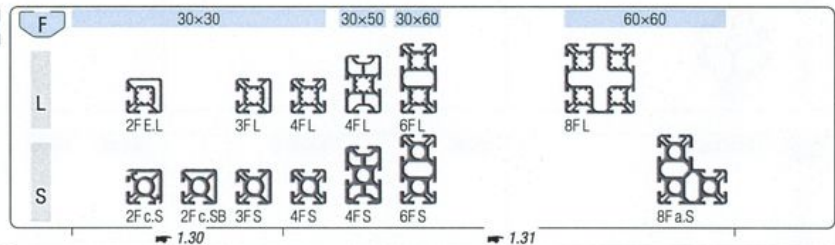
grooves

16	20	30	40	45	50	60	Profile group
H	F	E					Slot type
			plain				plain

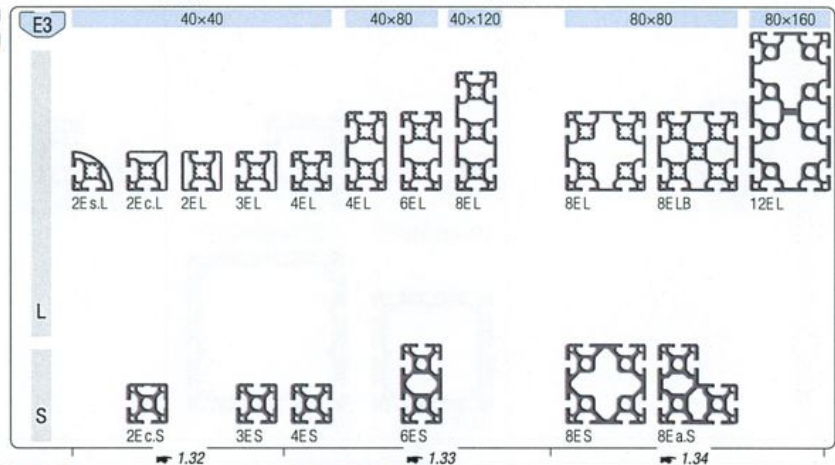
L	light
S	heavy
P	plain
B	type B

octag.	octagonal
c.	corner
r.	round
s.	soft
a.	angle

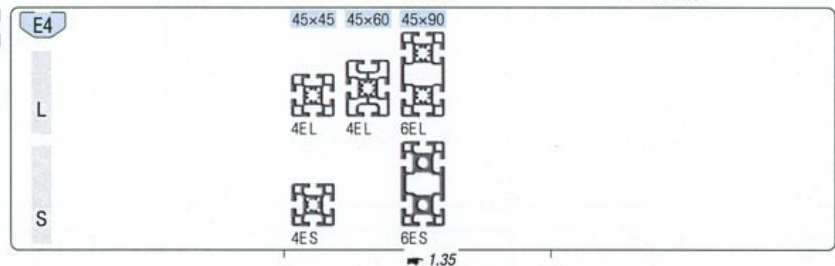
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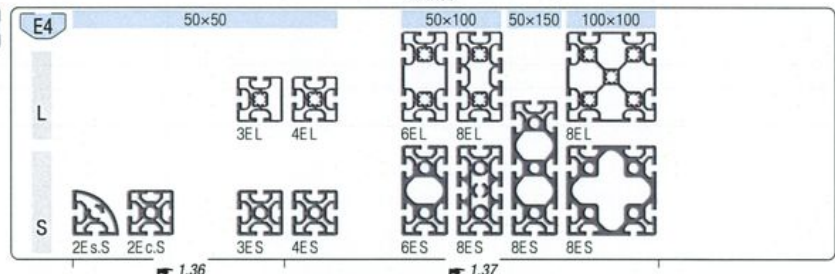
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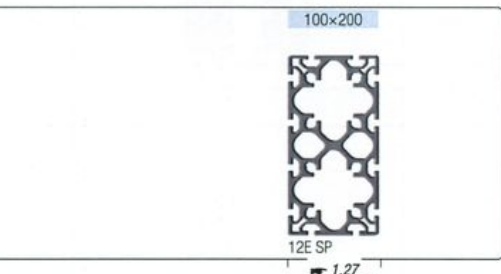
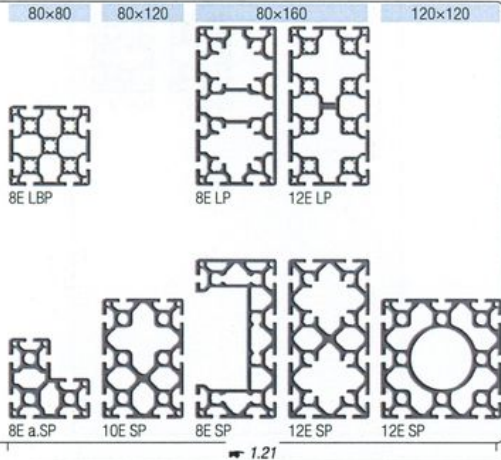
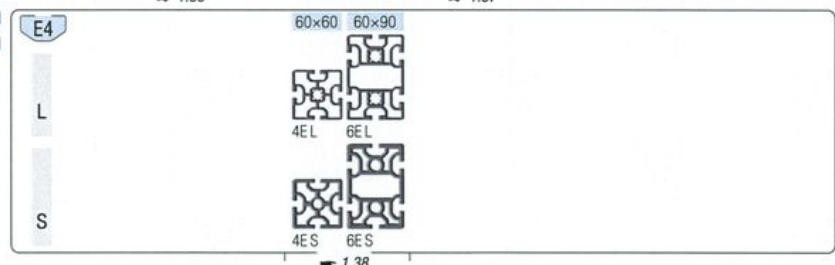
45



50



60



Profiles octagonal



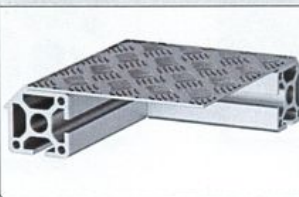
1.39

Telescopic profiles



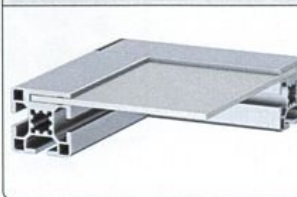
"The Telescopic System"

Panel bazel profiles



1.40

Panel profiles



1.41 - 1.43

30

plain

F 30 octag.

L

S



8F SP

30x60



3F 45° LP

30x30

30x50



0F LP



2Fc.LP 4



3FLP 4



3FLP 4



2FLP 5



2FLP 5



2FLP 6

40

plain

E3 40 octag.

L

S



8E SP

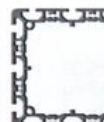
40x40

80x80



8E SBP

120x120



12E SP

160x160



16E SP

40x40

40x80



2E 45° SP



3E 45° SP

40x40

40x60



2Ec.LP 4



3ELP 4



3ELP 4

60x80



5ELP 4



6ELP 4

45

plain

50

plain

E4

L

50x50



2Ec.LP 4



3ELP 4

60

plain

Wire net profiles



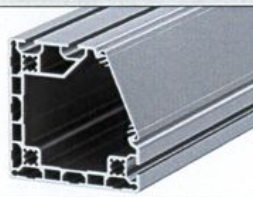
1.44 - 1.45

Modular wall system profiles



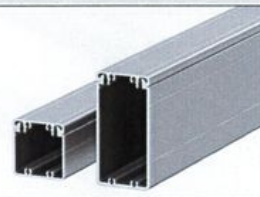
"The Modular Wall System"

E-trunking profiles



1.48

E-trunking profiles



1.46 - 1.47

30

plain

F 30x30 30x45 2F LP 7.5 2F LP 7.5 L S			Lid 30 30x30
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40

plain

E3 40x40 40x60 2E LP 7.5 2E 1F LP 7.5 L S		120x120 Lid 80 120x120 3E LP 80x160 Profile pre-cut lid 120 80x160 8E SP	Lid 40 40x20 for clips 40x20 40x40 40x80 Lid 80 80x40 80x80
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45

plain

E4 L	45x45 Compression profile 47.5x5 45x5 50x5 2E c.LP 4E LP 1E LP 4E LP		
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50

plain

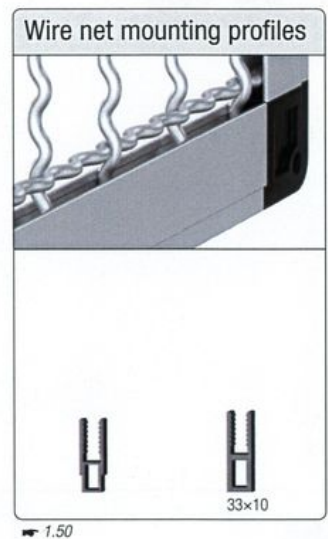
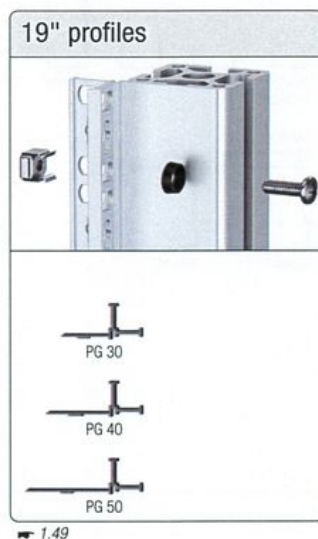
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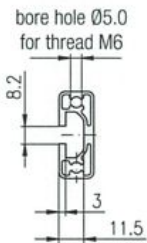
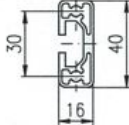
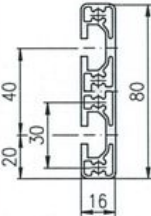
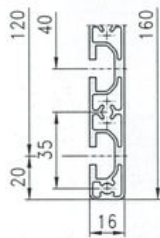
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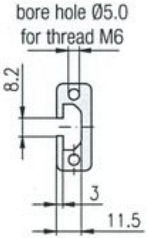
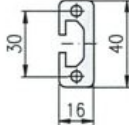
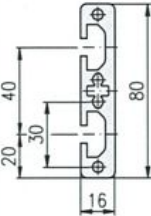
plain

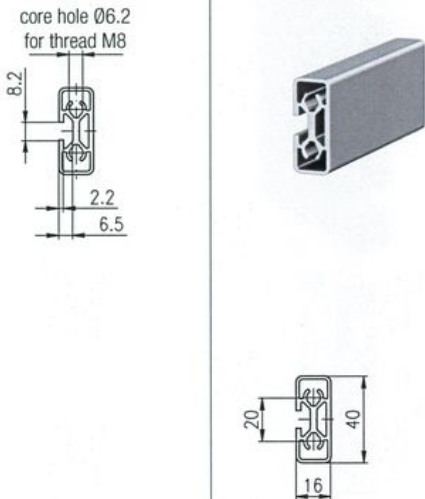
E4 L	57x57 60x57 60x117 Compression profile 57x4 60x4 61x4 2E c.LP 1E LP 4E LP 6E LP 120x120 60x4 with chamfer 4E a.LP		
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plain

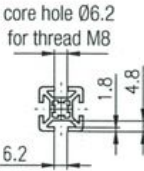


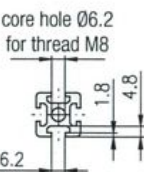
light 				
	 	 	 	
Description	Profile 16×40, 1E, LP	Profile 16×80, 2E, LP	Profile 16×160, 4E, LP	
bar, 6 m	1.09.016040.14LP.60	1.09.016080.24LP.60	1.09.016160.44LP.60	
packing unit (number)	1.09.016040.14LP.61 (20)	1.09.016080.24LP.61 (10)	1.09.016160.44LP.61 (5)	
moment of inertia cm ⁴	$I_x = 4.3$ $I_y = 0.8$	$I_x = 30.7$ $I_y = 1.6$	$I_x = 221.0$ $I_y = 3.2$	
moment of resistance cm ³	$W_x = 2.2$ $W_y = 0.8$	$W_x = 7.7$ $W_y = 1.6$	$W_x = 27.5$ $W_y = 3.2$	
weight kg/m	$G = 0.75$	$G = 1.49$	$G = 2.6$	

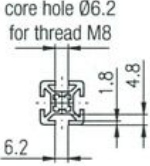
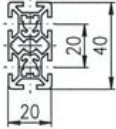
heavy 				
	 	 		
Description	Profile 16×40, 1E, SP	Profile 16×80, 2E, SP		
bar, 6 m	1.09.016040.14SP.60	1.09.016080.24SP.60		
packing unit (number)	1.09.016040.14SP.61 (20)	1.09.016080.24SP.61 (10)		
moment of inertia cm ⁴	$I_x = 7.2$ $I_y = 1.1$	$I_x = 48.3$ $I_y = 2.2$		
moment of resistance cm ³	$W_x = 3.6$ $W_y = 1.1$	$W_x = 12.0$ $W_y = 2.2$		
weight kg/m	$G = 1.14$	$G = 2.11$		

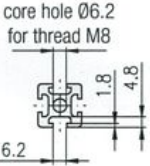
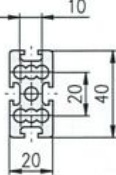
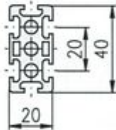
light				
				
Description	Profile 16×40, 1F, LP			
bar, 6 m	1.10.016040.14LP.60			
packing unit (number)	1.10.016040.14LP.61 (20)			
moment of inertia cm ⁴	$I_x = 4.4$ $I_y = 0.8$			
moment of resistance cm ³	$W_x = 2.2$ $W_y = 0.8$			
weight kg/m	$G = 0.87$			

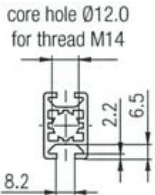
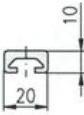
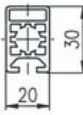
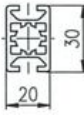
heavy				
Description				
bar, 6 m				
packing unit (number)				
moment of inertia cm ⁴				
moment of resistance cm ³				
weight kg/m				

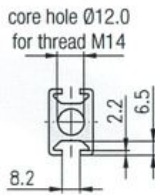
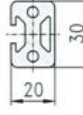
light				
				
				
				
Description			Profile 20×20, 2H, LP	
bar, 6 m			1.10.020020.23LP.60	
packing unit (number)			1.10.020020.23LP.61 (10)	
moment of inertia cm ⁴			$I_x = 1.0$ $I_y = 0.8$	
moment of resistance cm ³			$W_x = 1.0$ $W_y = 0.8$	
weight kg/m			$G = 0.58$	

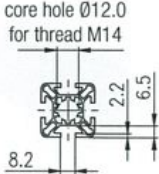
heavy				
				
				
				
				
				
				
				
Description	Profile 20×20, 2H, soft, SP	Profile 20×20, 2H, corner, SP		Profile 20×20, 3H, SP
bar, 6 m	1.10.020020.21SP.60	1.10.020020.22SP.60		1.10.020020.33SP.60
packing unit (number)	1.10.020020.21SP.61 (10)	1.10.020020.22SP.61 (10)		1.10.020020.33SP.61 (10)
moment of inertia cm ⁴	$I_x = 0.6$ $I_y = 0.6$	$I_x = 1.0$ $I_y = 1.0$		$I_x = 0.9$ $I_y = 0.9$
moment of resistance cm ³	$W_x = 0.6$ $W_y = 0.6$	$W_x = 0.9$ $W_y = 0.9$		$W_x = 0.9$ $W_y = 0.9$
weight kg/m	$G = 0.52$	$G = 0.68$		$G = 0.65$

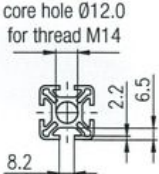
light				
				
 				
 				
Description	Profile 20×20, 4H, LP		Profile 20×40, 6H, LP	
bar, 6 m	1.10.020020.43LP.60		1.10.020040.64LP.60	
packing unit (number)	1.10.020020.43LP.61 (10)		1.10.020040.64LP.61 (10)	
moment of inertia cm ⁴	$I_x = 0.8 \quad I_y = 0.8$		$I_x = 5.3 \quad I_y = 1.4$	
moment of resistance cm ³	$W_x = 0.8 \quad W_y = 0.8$		$W_x = 2.6 \quad W_y = 1.4$	
weight kg/m	G = 0.53		G = 0.9	

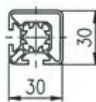
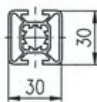
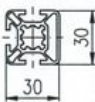
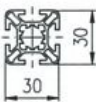
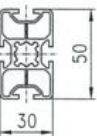
heavy				
				
 				
 				
 				
Description	Profile 20×20, 4H, SP		Profile 20×40, 4H, SP	
bar, 6 m	1.10.020020.43SP.60		1.10.020040.44SP.60	
packing unit (number)	1.10.020020.43SP.61 (10)		1.10.020040.44SP.61 (10)	
moment of inertia cm ⁴	$I_x = 0.9 \quad I_y = 0.9$		$I_x = 7.0 \quad I_y = 2.0$	
moment of resistance cm ³	$W_x = 0.9 \quad W_y = 0.9$		$W_x = 3.5 \quad W_y = 2.0$	
weight kg/m	G = 0.62		G = 1.3	

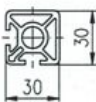
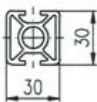
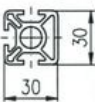
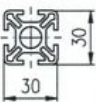
light       				
Description	Profile 20×10, 1F, LP	Profile 20×30, 1F, LP		Profile 20×30, 2F, LP
bar, 6 m	1.11.020010.14LP.60	1.11.020030.14LP.60		1.11.020030.24LP.60
packing unit (number)	1.11.020010.14LP.61 (10)	1.11.020030.14LP.61 (10)		1.11.020030.24LP.61 (10)
moment of inertia cm ⁴	$I_x = 0.1$ $I_y = 0.6$	$I_x = 2.2$ $I_y = 1.4$		$I_x = 2.2$ $I_y = 1.5$
moment of resistance cm ³	$W_x = 0.2$ $W_y = 0.5$	$W_x = 1.5$ $W_y = 1.4$		$W_x = 1.5$ $W_y = 1.5$
weight kg/m	$G = 0.35$	$G = 0.7$		$G = 0.74$

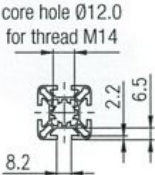
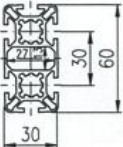
heavy     				
Description			Profile 20×30, 1F, SBP	Profile 20×30, 2F, SP
bar, 6 m			1.11.020030.14SBP.60	1.11.020030.24SP.60
packing unit (number)			1.11.020030.14SBP.61(10)	1.11.020030.24SP.61 (10)
moment of inertia cm ⁴			$I_x = 3.9$ $I_y = 1.4$	$I_x = 2.6$ $I_y = 1.9$
moment of resistance cm ³			$W_x = 2.6$ $W_y = 1.3$	$W_x = 1.7$ $W_y = 1.7$
weight kg/m			$G = 1.2$	$G = 1.0$

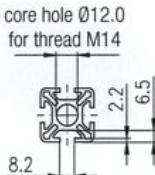
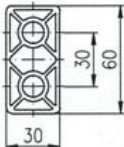
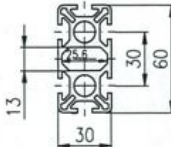
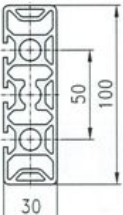
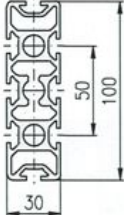
light 			 	
Description			Profile 30×30, 1F, LP	
bar, 6 m			1.11.030030.13LP.60	
packing unit (number)			1.11.030030.13LP.61 (10)	
moment of inertia cm ⁴ moment of resistance cm ³ weight kg/m			$I_x = 3.1$ $I_y = 3.1$ $W_x = 2.1$ $W_y = 2.1$ $G = 0.9$	

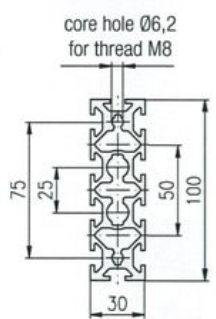
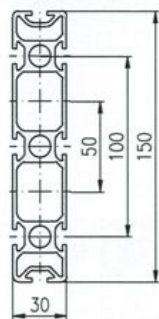
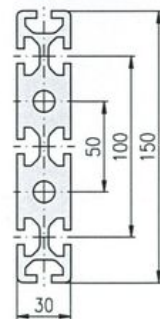
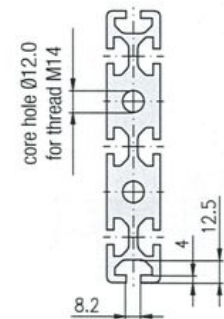
heavy 	 	 	 	 
Description	Profile 30×30, 2F, soft, SP	Profile 30×30, OF, SP	Profile 30×30, 1F, SP	Profile 30×30, 2F, corner, SP
bar, 6 m	1.11.030030.21SP.60	1.11.030030.03SP.60	1.11.030030.13SP.60	1.11.030030.22SP.60
packing unit (number)	1.11.030030.21SP.61 (10)	1.11.030030.03SP.61 (10)	1.11.030030.13SP.61 (10)	1.11.030030.22SP.61 (10)
moment of inertia cm ⁴ moment of resistance cm ³ weight kg/m	$I_x = 2.7$ $I_y = 2.7$ $W_x = 1.6$ $W_y = 1.6$ $G = 0.9$	$I_x = 4.4$ $I_y = 4.4$ $W_x = 2.3$ $W_y = 2.3$ $G = 1.3$	$I_x = 4.3$ $I_y = 4.0$ $W_x = 2.9$ $W_y = 2.6$ $G = 1.2$	$I_x = 3.7$ $I_y = 3.2$ $W_x = 2.4$ $W_y = 2.1$ $G = 1.1$

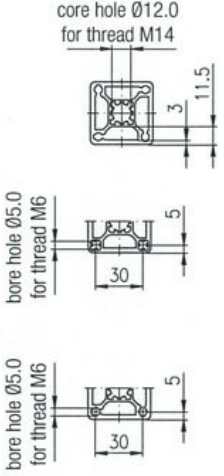
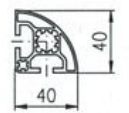
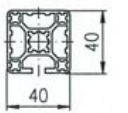
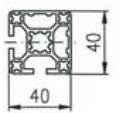
				
				
Profile 30×30, 2F, corner, LP	Profile 30×30, 2F, LP	Profile 30×30, 3F, LP	Profile 30×30, 4F, LP	Profile 30×50, 4F, LP
1.11.030030.22LP.60	1.11.030030.23LP.60	1.11.030030.33LP.60	1.11.030030.43LP.60	1.11.030050.44LP.60
1.11.030030.22LP.61 (10)	1.11.030030.23LP.61 (10)	1.11.030030.33LP.61 (10)	1.11.030030.43LP.61 (10)	1.11.030050.44LP.61 (6)
$I_x = 3.2$ $I_y = 3.2$ $W_x = 2.1$ $W_y = 2.1$ $G = 0.9$	$I_x = 3.2$ $I_y = 3.2$ $W_x = 2.1$ $W_y = 2.1$ $G = 0.9$	$I_x = 3.0$ $I_y = 3.0$ $W_x = 2.0$ $W_y = 2.0$ $G = 0.9$	$I_x = 3.3$ $I_y = 3.3$ $W_x = 2.2$ $W_y = 2.2$ $G = 0.9$	$I_x = 10.6$ $I_y = 4.7$ $W_x = 4.6$ $W_y = 3.6$ $G = 1.3$

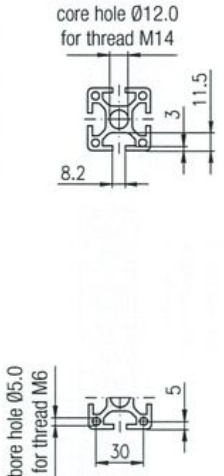
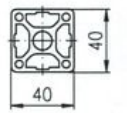
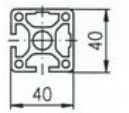
				
				
Profile 30×30, 2F, corner, SBP	Profile 30×30, 2F, SP	Profile 30×30, 3F, SP	Profile 30×30, 4F, SP	Profile 30×50, 4F, SP
1.11.030030.22SBP.60	1.11.030030.23SP.60	1.11.030030.33SP.60	1.11.030030.43SP.60	1.11.030050.44SP.60
1.11.030030.22SBP.61(10)	1.11.030030.23SP.61 (10)	1.11.030030.33SP.61 (10)	1.11.030030.43SP.61 (10)	1.11.030050.44SP.61 (6)
$I_x = 3.7$ $I_y = 3.7$ $W_x = 2.4$ $W_y = 2.4$ $G = 1.1$	$I_x = 3.6$ $I_y = 3.9$ $W_x = 2.4$ $W_y = 2.6$ $G = 1.1$	$I_x = 3.5$ $I_y = 3.7$ $W_x = 2.4$ $W_y = 2.4$ $G = 1.1$	$I_x = 3.5$ $I_y = 3.5$ $W_x = 2.4$ $W_y = 2.4$ $G = 1.1$	$I_x = 16.3$ $I_y = 6.4$ $W_x = 6.5$ $W_y = 4.3$ $G = 1.9$

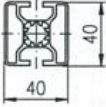
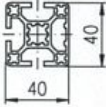
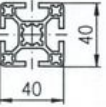
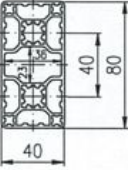
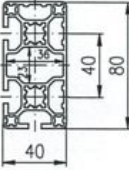
light 				
		 		
Description		Profile 30×60, 6F, LP		
bar, 6 m		1.11.030060.64LP.60		
packing unit (number)		1.11.030060.64LP.61 (6)		
moment of inertia cm ⁴		$I_x = 21.1$ $I_y = 5.9$		
moment of resistance cm ³		$W_x = 7.4$ $W_y = 3.9$		
weight kg/m		$G = 1.6$		

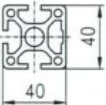
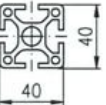
heavy									
									
									
Description		Profile 30×60 OF, SP		Profile 30×60 6F, SP		Profile 30×100, 3F, SP		Profile 30×100, 8F, SP	
bar, 6 m		1.11.030060.04SP.60		1.11.030060.65SP.60		1.11.030100.34SP.60		1.11.030100.84SP.60	
packing unit (number)		1.11.030060.04SP.61 (6)		1.11.030060.65SP.61 (6)		1.11.030100.34SP.61 (4)		1.11.030100.84SP.61 (4)	
moment of inertia cm ⁴		$I_x = 29.0$ $I_y = 7.8$		$I_x = 25.0$ $I_y = 7.0$		$I_x = 120.4$ $I_y = 12.8$		$I_x = 115.0$ $I_y = 11.6$	
moment of resistance cm ³		$W_x = 9.6$ $W_y = 5.2$		$W_x = 8.3$ $W_y = 4.7$		$W_x = 24.0$ $W_y = 8.5$		$W_x = 22.9$ $W_y = 7.7$	
weight kg/m		$G = 2.2$		$G = 2.1$		$G = 3.6$		$G = 3.4$	

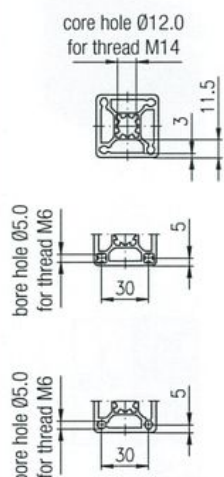
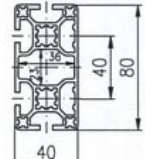
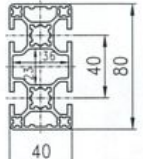
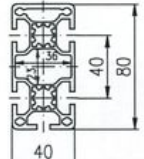
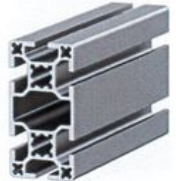
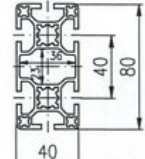
  core hole Ø6,2 for thread M8		 	   core hole Ø12.0 for thread M14	Connection possibilities  2.26, Universal connector  2.30, ST-Connector
Profile 30×100, 10F, SP		Profile 30×150, 8F, SBP	Profile 30×150, 8E, SP	
1.11.030100.104SP.60		1.11.030150.84SBP.60	1.11.030150.84SP.60	
1.11.030100.104SP.61 (4)		1.11.030150.84SBP.61 (2)	1.11.030150.84SP.61 (2)	
$I_x = 127.0$ $I_y = 11.9$ $W_x = 25.4$ $W_y = 7.9$ $G = 3.6$		$I_x = 340.0$ $I_y = 16.0$ $W_x = 45.0$ $W_y = 11.0$ $G = 4.1$	$I_x = 481.0$ $I_y = 25.1$ $W_x = 64.1$ $W_y = 16.7$ $G = 7.9$	

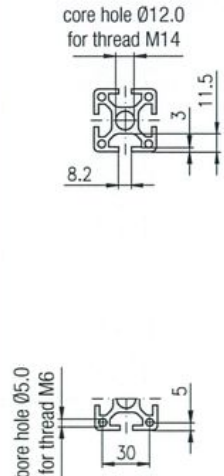
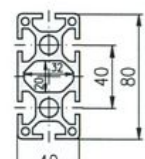
light				
	 		 	 
Description	Profile 40×40, 2E, soft, LP		Profile 40×40, 1E, LP	Profile 40×40, 2E, corner, LP
bar, 6 m	1.11.040040.21LP.60		1.11.040040.13LP.60	1.11.040040.22LP.60
packing unit (number)	1.11.040040.21LP.61 (8)		1.11.040040.13LP.61 (8)	1.11.040040.22LP.61 (8)
moment of inertia cm ⁴	$I_x = 6.4$ $I_y = 6.4$		$I_x = 10.1$ $I_y = 9.8$	$I_x = 9.9$ $I_y = 9.9$
moment of resistance cm ³	$W_x = 3.8$ $W_y = 3.8$		$W_x = 5.0$ $W_y = 4.8$	$W_x = 4.9$ $W_y = 4.9$
weight kg/m	$G = 1.2$		$G = 1.5$	$G = 1.5$

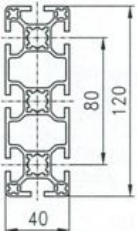
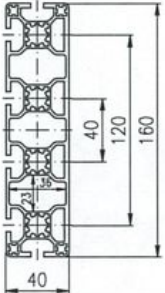
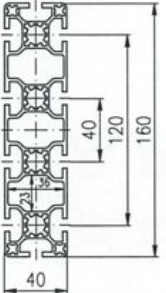
heavy				
	 		 	
Description		Profile 40×40, 0E, SP		Profile 40×40, 2E, corner, SP
bar, 6 m		1.11.040040.03SP.60		1.11.040040.22SP.60
packing unit (number)		1.11.040040.03SP.61 (8)		1.11.040040.22SP.61 (8)
moment of inertia cm ⁴		$I_x = 12.6$ $I_y = 12.6$		$I_x = 12.0$ $I_y = 12.0$
moment of resistance cm ³		$W_x = 6.3$ $W_y = 6.3$		$W_x = 6.0$ $W_y = 6.0$
weight kg/m		$G = 2.0$		$G = 2.0$

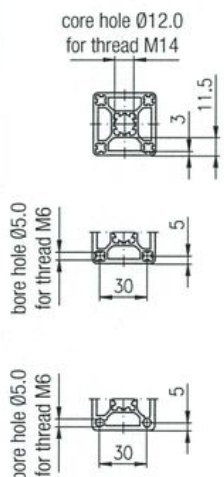
				
				
Profile 40×40, 2E, LP	Profile 40×40, 3E, LP	Profile 40×40, 4E, LP	Profile 40×80, 0E, LP	Profile 40×80, 3E, corner, LP
1.11.040040.23LP.60	1.11.040040.33LP.60	1.11.040040.43LP.60	1.11.040080.04LP.60	1.11.040080.32LP.60
1.11.040040.23LP.61 (8)	1.11.040040.33LP.61 (8)	1.11.040040.43LP.61 (8)	1.11.040080.04LP.61 (4)	1.11.040080.32LP.61 (4)
$I_x = 8.2$ $I_y = 7.5$ $W_x = 4.1$ $W_y = 3.8$ $G = 1.3$	$I_x = 9.5$ $I_y = 9.9$ $W_x = 4.7$ $W_y = 4.9$ $G = 1.5$	$I_x = 9.6$ $I_y = 9.6$ $W_x = 4.7$ $W_y = 4.7$ $G = 1.5$	$I_x = 66.8$ $I_y = 18.4$ $W_x = 16.7$ $W_y = 9.2$ $G = 2.7$	$I_x = 66.9$ $I_y = 18.1$ $W_x = 16.7$ $W_y = 9.0$ $G = 2.6$

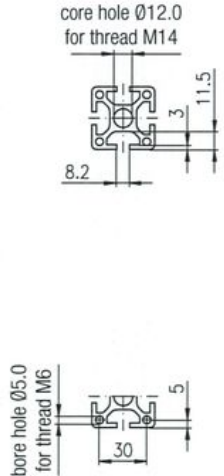
				
				
	Profile 40×40, 3E, SP	Profile 40×40, 4E, SP		
	1.11.040040.33SP.60	1.11.040040.43SP.60		
	1.11.040040.33SP.61 (8)	1.11.040040.43SP.61 (8)		
	$I_x = 12.0$ $I_y = 11.4$ $W_x = 6.0$ $W_y = 5.6$ $G = 2.0$	$I_x = 12.0$ $I_y = 12.0$ $W_x = 6.0$ $W_y = 6.0$ $G = 2.0$		

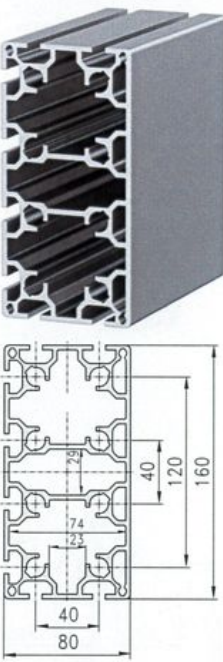
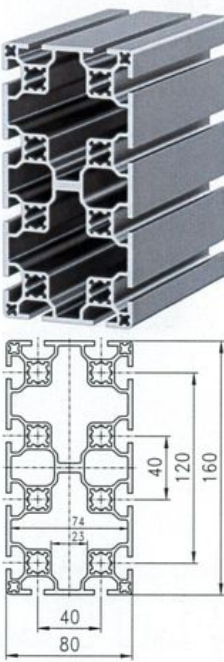
light				
	 	 	 	 
Description	Profile 40×80, 4E, LP	Profile 40×80, 4E, LBP	Profile 40×80, 5E, LP	Profile 40×80, 6E, LP
bar, 6 m	1.11.040080.44LP.60	1.11.040080.44LBP.60	1.11.040080.54LP.60	1.11.040080.64LP.60
packing unit (number)	1.11.040080.44LP.61 (4)	1.11.040080.44LBP.61 (4)	1.11.040080.54LP.61 (4)	1.11.040080.64LP.61 (4)
moment of inertia cm ⁴	$I_x = 65.8$ $I_y = 18.1$	$I_x = 67.7$ $I_y = 16.3$	$I_x = 72.2$ $I_y = 18.1$	$I_x = 65.4$ $I_y = 17.5$
moment of resistance cm ³	$W_x = 16.5$ $W_y = 9.0$	$W_x = 16.9$ $W_y = 8.7$	$W_x = 18.0$ $W_y = 9.0$	$W_x = 16.4$ $W_y = 8.8$
weight kg/m	G = 2.6	G = 2.7	G = 2.8	G = 2.5

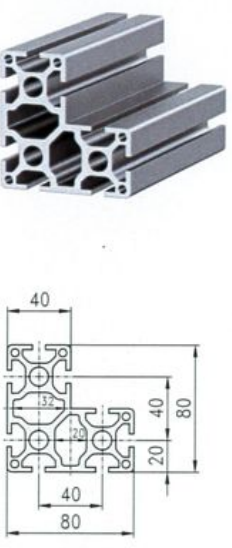
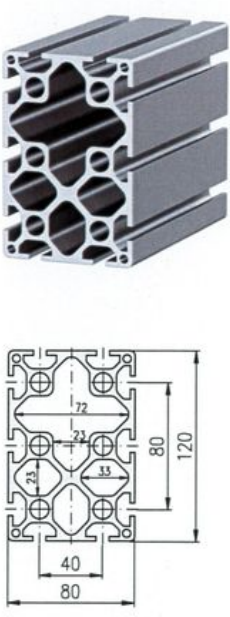
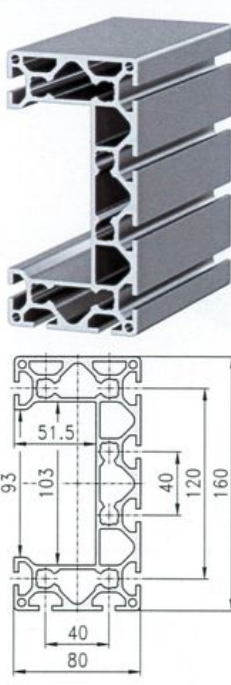
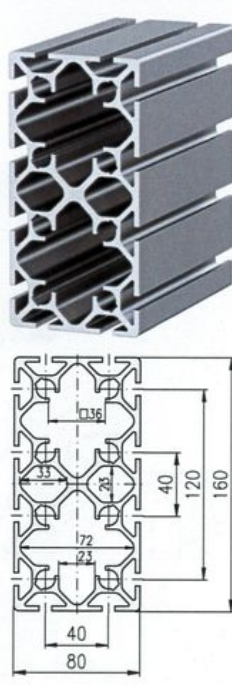
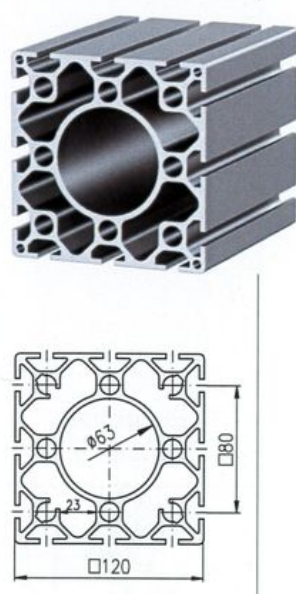
heavy				
				 
Description				Profile 40×80, 6E, SP
bar, 6 m				1.11.040080.64SP.60
packing unit (number)				1.11.040080.64SP.61 (4)
moment of inertia cm ⁴				$I_x = 82.0$ $I_y = 23.4$
moment of resistance cm ³				$W_x = 20.5$ $W_y = 11.7$
weight kg/m				G = 3.8

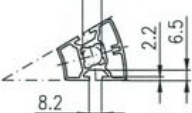
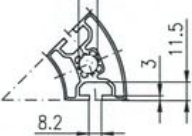
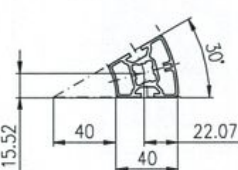
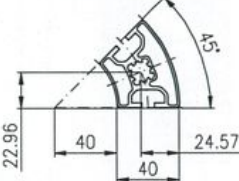
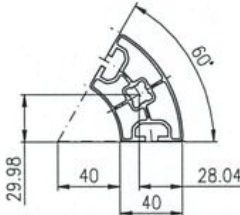
 	 	 		
Profile 40×120, 8E, LP	Profile 40×160, 6E, LP	Profile 40×160, 10E, LP		
1.11.040120.84LP.60	1.11.040160.64LP.60	1.11.040160.104LP.60		
1.11.040120.84LP.61 (2)	1.11.040160.64LP.61 (2)	1.11.040160.104LP.61 (2)		
$I_x = 200.4$ $I_y = 25.4$ $W_x = 33.4$ $W_y = 12.7$ $G = 3.8$	$I_x = 450.4$ $I_y = 36.3$ $W_x = 56.3$ $W_y = 18.1$ $G = 5.0$	$I_x = 433.5$ $I_y = 33.1$ $W_x = 54.2$ $W_y = 16.5$ $G = 4.7$		

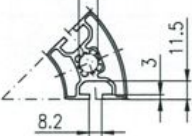
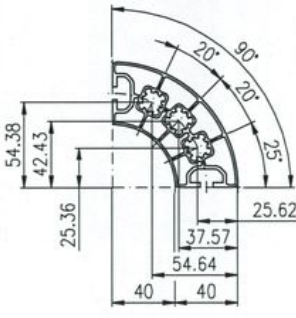
light				
				
Description	Profile 80×80, OE, LP	Profile 80×80, 4E, corner, LP	Profile 80×80, 6E, LP	Profile 80×80, 8E, LP
bar, 6 m	1.11.080080.03LP.60	1.11.080080.42LP.60	1.11.080080.63LP.60	1.11.080080.83LP.60
packing unit (number)	1.11.080080.03LP.61 (2)	1.11.080080.42LP.61 (2)	1.11.080080.63LP.61 (2)	1.11.080080.83LP.61 (2)
moment of inertia cm ⁴	$I_x = 123.3$ $I_y = 123.3$	$I_x = 128.0$ $I_y = 128.0$	$I_x = 121.3$ $I_y = 116.0$	$I_x = 114.0$ $I_y = 114.0$
moment of resistance cm ³	$W_x = 30.9$ $W_y = 30.9$	$W_x = 32.0$ $W_y = 32.0$	$W_x = 30.3$ $W_y = 29.0$	$W_x = 28.4$ $W_y = 28.4$
weight kg/m	G = 4.5	G = 4.5	G = 4.2	G = 4.1

heavy				
				
Description			Profile 80×80, 7E, SP	Profile 80×80, 8E, SP
bar, 6 m			1.11.080080.79SP.60	1.11.080080.83SP.60
packing unit (number)			1.11.080080.79SP.61 (2)	1.11.080080.83SP.61 (2)
moment of inertia cm ⁴			$I_x = 162.8$ $I_y = 149.7$	$I_x = 166.0$ $I_y = 166.0$
moment of resistance cm ³			$W_x = 40.7$ $W_y = 37.5$	$W_x = 41.4$ $W_y = 41.4$
weight kg/m			G = 6.2	G = 5.9

				
Profile 80×80, 8E, LBP		Profile 80×160, 8E, LP	Profile 80×160, 12E, LP	
1.11.080080.83LBP.60		1.11.080160.84LP.60	1.11.080160.124LP.60	
1.11.080080.83LBP.61 (2)		1.11.080160.84LP.61 (2)	1.11.080160.124LP.61 (2)	
$I_x = 118.7$ $I_y = 118.7$ $W_x = 29.9$ $W_y = 29.9$ $G = 4.9$		$I_x = 828.0$ $I_y = 259.0$ $W_x = 104.0$ $W_y = 65.0$ $G = 8.6$	$I_x = 787.6$ $I_y = 231.9$ $W_x = 98.3$ $W_y = 58.2$ $G = 8.2$	

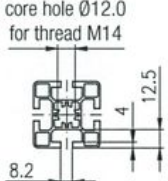
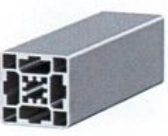
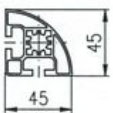
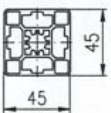
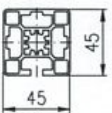
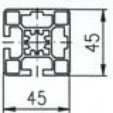
				
Profile 80×80, 8E, angle, SP	Profile 80×120, 10E, SP	Profile 80×160, 8E, SP	Profile 80×160, 12E, SP	Profile 120×120, 12E, SP
1.11.080080.87SP.60	1.11.080120.104SP.60	1.11.080160.89SP.60	1.11.080160.124SP.60	1.11.120120.123SP.60
1.11.080080.87SP.60 (2)	1.11.080120.104SP.61 (2)	1.11.080160.89SP.61 (2)	1.11.080160.124SP.61 (2)	1.11.120120.123SP.61 (2)
$I_x = 120.0$ $I_y = 120.0$ $W_x = 23.8$ $W_y = 23.8$ $G = 5.4$	$I_x = 449.9$ $I_y = 217.8$ $W_x = 72.6$ $W_y = 54.4$ $G = 8.6$	$I_x = 944.0$ $I_y = 183.0$ $W_x = 118.0$ $W_y = 45.8$ $G = 7.9$	$I_x = 883.0$ $I_y = 269.0$ $W_x = 110.0$ $W_y = 67.3$ $G = 9.4$	$I_x = 624.0$ $I_y = 624.0$ $W_x = 104.0$ $W_y = 104.0$ $G = 10.6$

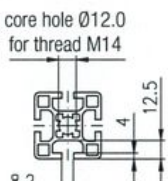
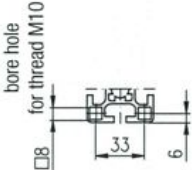
light F-Slot core hole Ø12.0 for thread M14  E3-Slot core hole Ø12.0 for thread M14 	F-Slot  	 	 	Connection possibilities and calculation formulas for polygons ➡ 1.2E
Description	Profile 40, round 30 deg., 2F, LP	Profile 40, round 45 deg., 2E, LP	Profile 40, round 60 deg., 2E, LP	
bar, 6 m	1.11.040R30.20LP.60	1.11.040R45.20LP.60	1.11.040R60.20LP.60	
packing unit (number)	1.11.040R30.20LP.61 (8)	1.11.040R45.20LP.61 (8)	1.11.040R60.20LP.61 (8)	
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	$I_x = 6.0$ $I_y = 4.8$ $W_x = 3.0$ $W_y = 2.4$ $G = 1.2$	$I_x = 14.5$ $I_y = 8.0$ $W_x = 4.9$ $W_y = 3.7$ $G = 1.6$	$I_x = 30.0$ $I_y = 10.5$ $W_x = 7.6$ $W_y = 4.6$ $G = 1.9$	

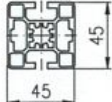
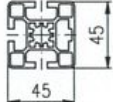
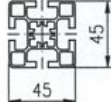
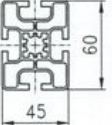
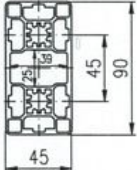
light core hole Ø12.0 for thread M14 	 	Connection possibilities and calculation formulas for polygons ➡ 1.2E
Description	Profile 40, round 90 deg., 2E, LP	
bar, 6 m	1.11.040R90.20LP.60	
packing unit (number)	1.11.040R90.20LP.61 (4)	
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	$I_x = 89.0$ $I_y = 89.0$ $W_x = 16.0$ $W_y = 16.0$ $G = 3.0$	

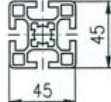
1

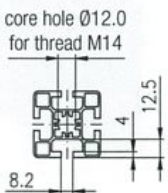
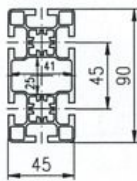
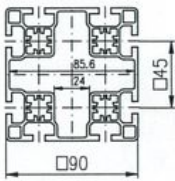
machining data ➡ *Profile machining 1.1A*

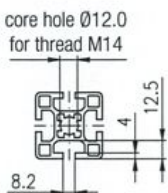
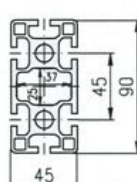
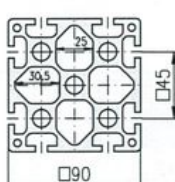
light         				
Description	Profile 45×45, 2E, soft, LP	Profile 45×45, 0E, LP	Profile 45×45, 1E, LP	Profile 45×45, 2E, corner, LP
bar, 6 m	1.11.045045.21LP.60	1.11.045045.03LP.60	1.11.045045.13LP.60	1.11.045045.22LP.60
packing unit (number)	1.11.045045.21LP.61 (8)	1.11.045045.03LP.61 (8)	1.11.045045.13LP.61 (8)	1.11.045045.22LP.61 (8)
moment of inertia cm ⁴	$I_x = 11.4$ $I_y = 11.4$	$I_x = 15.5$ $I_y = 15.5$	$I_x = 14.7$ $I_y = 15.5$	$I_x = 14.7$ $I_y = 14.7$
moment of resistance cm ³	$W_x = 5.1$ $W_y = 5.1$	$W_x = 6.9$ $W_y = 6.9$	$W_x = 6.5$ $W_y = 6.8$	$W_x = 6.6$ $W_y = 6.6$
weight kg/m	G = 1.6	G = 2.2	G = 2.1	G = 2.0

heavy  				
Description				
bar, 6 m				
packing unit (number)				
moment of inertia cm ⁴				
moment of resistance cm ³				
weight kg/m				

				
				
Profile 45×45, 2E, LP	Profile 45×45, 3E, LP	Profile 45×45, 4E, LP	Profile 45×60, 4E, LP	Profile 45×90, 0E, LP
1.11.045045.23LP.60	1.11.045045.33LP.60	1.11.045045.43LP.60	1.11.045060.44LP.60	1.11.045090.04LP.60
1.11.045045.23LP.61 (8)	1.11.045045.33LP.61 (8)	1.11.045045.43LP.61 (8)	1.11.045060.44LP.61 (6)	1.11.045090.04LP.61 (4)
$I_x = 14.0$ $I_y = 15.5$ $W_x = 6.2$ $W_y = 6.9$ $G = 2.0$	$I_x = 14.0$ $I_y = 14.7$ $W_x = 6.2$ $W_y = 6.5$ $G = 2.1$	$I_x = 13.5$ $I_y = 13.5$ $W_x = 6.0$ $W_y = 6.0$ $G = 1.9$	$I_x = 27.6$ $I_y = 16.3$ $W_x = 9.1$ $W_y = 8.2$ $G = 2.3$	$I_x = 107.5$ $I_y = 30.4$ $W_x = 23.9$ $W_y = 13.5$ $G = 3.6$

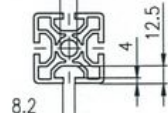
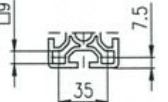
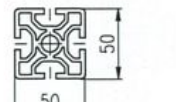
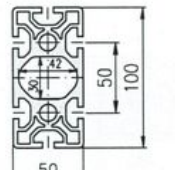
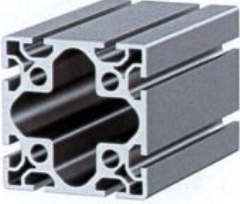
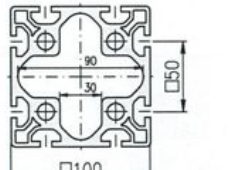
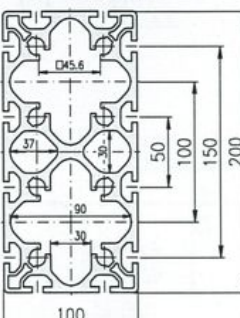
				
				
		Profile 45×45, 4E, SP		
		1.11.045045.43SP.60		
		1.11.045045.43SP.61 (8)		
		$I_x = 15.5$ $I_y = 15.5$ $W_x = 6.9$ $W_y = 6.9$ $G = 2.1$		

light     				
Description	Profile 45×90, 6E, LP	Profile 90×90, 8E, LP		
bar, 6 m	1.11.045090.64LP.60	1.11.090090.83LP.60		
packing unit (number)	1.11.045090.64LP.61 (4)	1.11.090090.83LP.61 (2)		
moment of inertia cm ⁴	$I_x = 98.0$ $I_y = 27.5$	$I_x = 190.5$ $I_y = 190.5$		
moment of resistance cm ³	$W_x = 21.8$ $W_y = 12.2$	$W_x = 42.3$ $W_y = 42.3$		
weight kg/m	$G = 3.3$	$G = 5.6$		

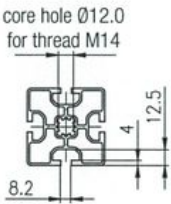
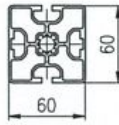
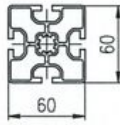
heavy     				
Description	Profile 45×90, 6E, SP	Profile 90×90, 8E, SP		
bar, 6 m	1.11.045090.64SP.60	1.11.090090.83SP.60		
packing unit (number)	1.11.045090.64SP.61 (4)	1.11.090090.83SP.61 (2)		
moment of inertia cm ⁴	$I_x = 126.0$ $I_y = 34.0$	$I_x = 282.0$ $I_y = 282.0$		
moment of resistance cm ³	$W_x = 28.0$ $W_y = 15.0$	$W_x = 63.0$ $W_y = 63.0$		
weight kg/m	$G = 4.4$	$G = 9.5$		

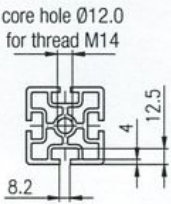
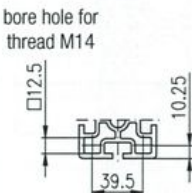
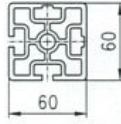
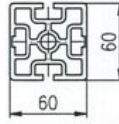
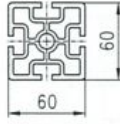
light				

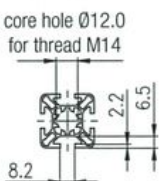
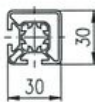
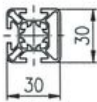
1

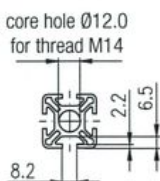
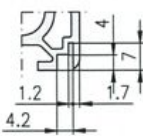
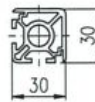
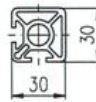
heavy				
core hole Ø12.0 for thread M14  bore hole for thread M12 	 	 	 	 
Description	Profile 50×50, 4E, SP	Profile 50×100, 6E, SP	Profile 100×100, 8E, SP	Profile 100×200, 12E, SP
bar, 6 m	1.11.050050.43SP.60	1.11.050100.64SP.60	1.11.100100.83SP.60	1.11.100200.124SP.60
packing unit (number)	1.11.050050.43SP.61 (6)	1.11.050100.64SP.61 (3)	1.11.100100.83SP.61 (2)	1.11.100200.124SP.61 (2)
moment of inertia cm ⁴	$I_x = 26.6$ $I_y = 26.6$	$I_x = 195.7$ $I_y = 55.4$	$I_x = 387.2$ $I_y = 387.2$	$I_x = 2,450.0$ $I_y = 760.0$
moment of resistance cm ³	$W_x = 10.6$ $W_y = 10.6$	$W_x = 39.2$ $W_y = 22.3$	$W_x = 77.5$ $W_y = 77.5$	$W_x = 250.0$ $W_y = 152.0$
weight kg/m	G = 3.0	G = 5.7	G = 9.6	G = 17.2

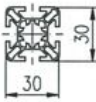
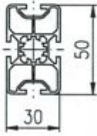
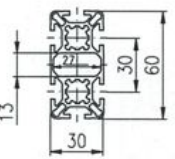
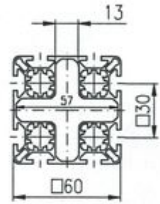
machining data ➔ Profile machining 1.1A

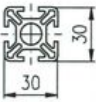
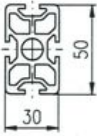
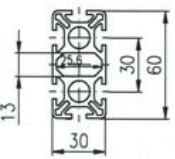
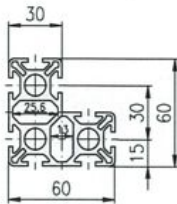
light				
				
				
				
Description		Profile 60×60, 2E, LP	Profile 60×60, 4E, LP	
bar, 6 m		1.11.060060.23LP.60	1.11.060060.43LP.60	
packing unit (number)		1.11.060060.23LP.61 (6)	1.11.060060.43LP.61 (6)	
moment of inertia cm ⁴		$I_x = 35.1$ $I_y = 37.7$	$I_x = 35.5$ $I_y = 35.5$	
moment of resistance cm ³		$W_x = 11.7$ $W_y = 12.5$	$W_x = 11.7$ $W_y = 11.7$	
weight kg/m		$G = 2.9$	$G = 2.7$	

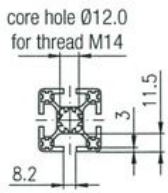
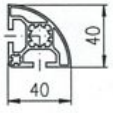
heavy				
				
				
				
				
Description		Profile 60×60, 2E, corner, SP	Profile 60×60, 2E, SP	Profile 60×60, 4E, SP
bar, 6 m		1.11.060060.22SP.60	1.11.060060.23SP.60	1.11.060060.43SP.60
packing unit (number)		1.11.060060.22SP.61 (6)	1.11.060060.23SP.61 (6)	1.11.060060.43SP.61 (6)
moment of inertia cm ⁴		$I_x = 57.2$ $I_y = 57.2$	$I_x = 55.9$ $I_y = 58.5$	$I_x = 56.0$ $I_y = 56.0$
moment of resistance cm ³		$W_x = 19.1$ $W_y = 19.1$	$W_x = 18.6$ $W_y = 19.5$	$W_x = 18.7$ $W_y = 18.7$
weight kg/m		$G = 4.3$	$G = 4.3$	$G = 4.2$

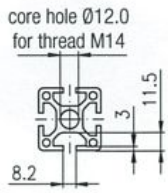
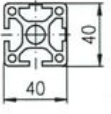
light				
				
		 		 
Description		Profile 30×30, 2F, corner, L		Profile 30×30, 3F, L
bar, 6 m		1.11.030030.22L.60		1.11.030030.33L.60
packing unit (number)		1.11.030030.22L.61 (10)		1.11.030030.33L.61 (10)
moment of inertia cm ⁴		$I_x = 3.2$ $I_y = 3.2$		$I_x = 3.3$ $I_y = 3.2$
moment of resistance cm ³		$W_x = 2.1$ $W_y = 2.1$		$W_x = 2.2$ $W_y = 2.2$
weight kg/m		G = 0.9		G = 0.9

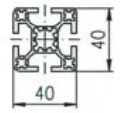
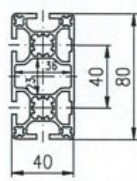
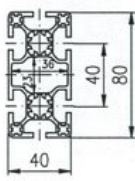
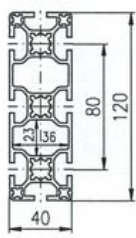
heavy				
				
		  		 
Description		Profile 30×30, 2F, corner, S	Profile 30×30, 2F, corner, SB	Profile 30×30, 3F, S
bar, 6 m		1.11.030030.22S.60	1.11.030030.22SB.60	1.11.030030.33S.60
packing unit (number)		1.11.030030.22S.61 (10)	1.11.030030.22SB.61 (10)	1.11.030030.33S.61 (10)
moment of inertia cm ⁴		$I_x = 3.7$ $I_y = 3.2$	$I_x = 3.7$ $I_y = 3.7$	$I_x = 3.5$ $I_y = 3.7$
moment of resistance cm ³		$W_x = 2.4$ $W_y = 2.4$	$W_x = 2.4$ $W_y = 2.4$	$W_x = 2.4$ $W_y = 2.4$
weight kg/m		G = 1.1	G = 1.1	G = 1.1

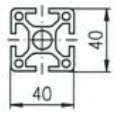
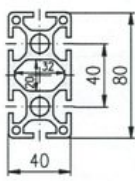
				
				
Profile 30×30, 4F, L	Profile 30×50, 4F, L	Profile 30×60, 6F, L	Profile 60×60, 8F, L	
1.11.030030.43L.60	1.11.030050.44L.60	1.11.030060.64L.60	1.11.060060.83L.60	
1.11.030030.43L.61 (10)	1.11.030050.44L.61 (6)	1.11.030060.64L.61 (6)	1.11.060060.83L.61 (4)	
$I_x = 3.3$ $I_y = 3.3$ $W_x = 2.2$ $W_y = 2.2$ $G = 0.9$	$I_x = 10.5$ $I_y = 4.5$ $W_x = 4.5$ $W_y = 3.5$ $G = 1.3$	$I_x = 21.9$ $I_y = 5.8$ $W_x = 7.4$ $W_y = 3.8$ $G = 1.6$	$I_x = 38.7$ $I_y = 38.7$ $W_x = 12.9$ $W_y = 12.9$ $G = 2.6$	

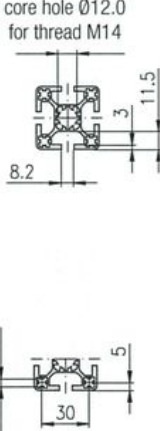
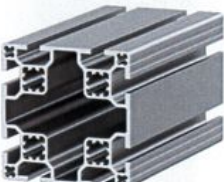
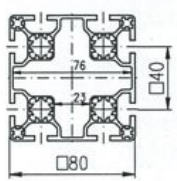
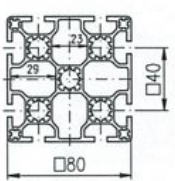
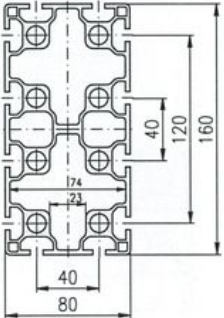
				
				
Profile 30×30, 4F, S	Profile 30×50, 4F, S	Profile 30×60, 6F, S		Profile 60×60, 8F, angle, S
1.11.030030.43S.60	1.11.030050.44S.60	1.11.030060.65S.60		1.11.060060.87S.60
1.11.030030.43S.61 (10)	1.11.030050.44S.61 (6)	1.11.030060.65S.61 (6)		1.11.060060.87S.61 (4)
$I_x = 3.5$ $I_y = 3.5$ $W_x = 2.4$ $W_y = 2.4$ $G = 1.1$	$I_x = 16.1$ $I_y = 6.3$ $W_x = 6.4$ $W_y = 4.2$ $G = 1.9$	$I_x = 25.0$ $I_y = 7.0$ $W_x = 8.3$ $W_y = 4.7$ $G = 2.1$		$I_x = 35.2$ $I_y = 35.2$ $W_x = 9.9$ $W_y = 9.9$ $G = 2.8$

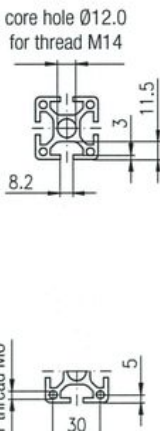
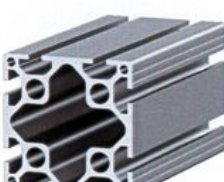
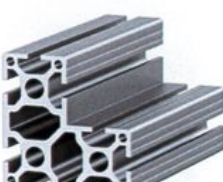
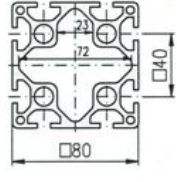
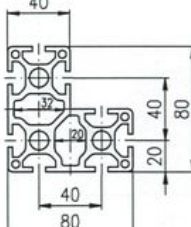
light  					
Description	Profile 40×40, 2E, soft, L	Profile 40×40, 2E, corner, L	Profile 40×40, 2E, L	Profile 40×40, 3E, L	
bar, 6 m	1.11.040040.21L.60	1.11.040040.22L.60	1.11.040040.23L.60	1.11.040040.33L.60	
packing unit (number)	1.11.040040.21L.61 (8)	1.11.040040.22L.61 (8)	1.11.040040.23L.61 (8)	1.11.040040.33L.61 (8)	
moment of inertia cm ⁴	$I_x = 6.4$ $I_y = 6.4$	$I_x = 8.0$ $I_y = 8.0$	$I_x = 8.2$ $I_y = 7.5$	$I_x = 8.3$ $I_y = 8.8$	
moment of resistance cm ³	$W_x = 3.8$ $W_y = 3.8$	$W_x = 4.0$ $W_y = 4.0$	$W_x = 4.1$ $W_y = 3.8$	$W_x = 4.1$ $W_y = 4.4$	
weight kg/m	$G = 1.2$	$G = 1.3$	$G = 1.3$	$G = 1.4$	

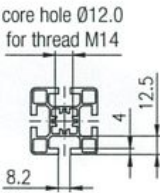
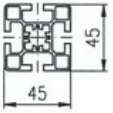
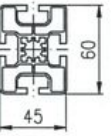
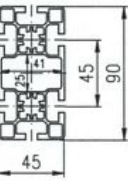
heavy  					
Description		Profile 40×40, 2E, corner, S		Profile 40×40, 3E, S	
bar, 6 m		1.11.040040.22S.60		1.11.040040.33S.60	
packing unit (number)		1.11.040040.22S.61 (8)		1.11.040040.33S.61 (8)	
moment of inertia cm ⁴		$I_x = 12.3$ $I_y = 12.3$		$I_x = 12.0$ $I_y = 11.3$	
moment of resistance cm ³		$W_x = 6.1$ $W_y = 6.1$		$W_x = 6.0$ $W_y = 5.6$	
weight kg/m		$G = 2.0$		$G = 1.9$	

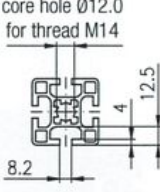
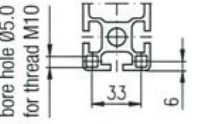
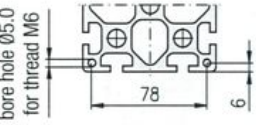
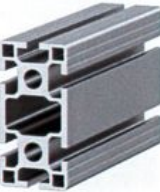
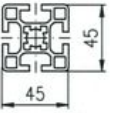
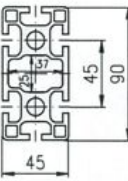
				
				
Profile 40×40, 4E, L	Profile 40×80, 4E, L	Profile 40×80, 6E, L	Profile 40×120, 8E, L	
1.11.040040.43L.60	1.11.040080.44L.60	1.11.040080.64L.60	1.11.040120.84L.60	
1.11.040040.43L.61 (8)	1.11.040080.44L.61 (4)	1.11.040080.64L.61 (4)	1.11.040120.84L.61 (2)	
$I_x = 9.9$ $I_y = 9.9$ $W_x = 4.9$ $W_y = 4.9$ $G = 1.5$	$I_x = 63.2$ $I_y = 17.8$ $W_x = 15.7$ $W_y = 8.9$ $G = 2.6$	$I_x = 62.7$ $I_y = 17.0$ $W_x = 15.6$ $W_y = 8.5$ $G = 2.6$	$I_x = 198.5$ $I_y = 25.2$ $W_x = 34.2$ $W_y = 12.6$ $G = 3.6$	

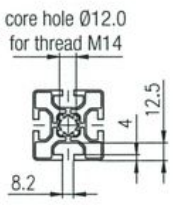
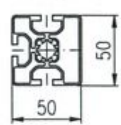
				
				
Profile 40×40, 4E, S		Profile 40×80, 6E, S		
1.11.040040.43S.60		1.11.040080.64S.60		
1.11.040040.43S.61 (8)		1.11.040080.64S.61 (4)		
$I_x = 12.0$ $I_y = 12.0$ $W_x = 6.0$ $W_y = 6.0$ $G = 2.0$		$I_x = 82.0$ $I_y = 23.4$ $W_x = 20.5$ $W_y = 11.7$ $G = 3.8$		

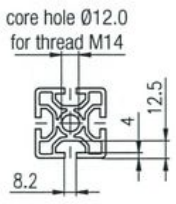
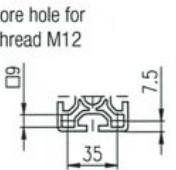
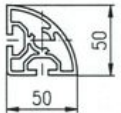
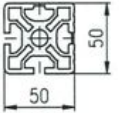
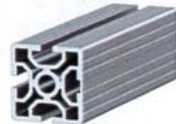
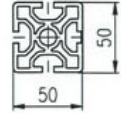
light 				
				
				
Description	Profile 80×80, 8E, L	Profile 80×80, 8E, LB	Profile 80×160, 12E, L	
bar, 6 m	1.11.080080.83L.60	1.11.080080.83LB.60	1.11.080160.124L.60	
packing unit (number)	1.11.080080.83L.61 (2)	1.11.080080.83LB.61 (2)	1.11.080160.124L.61 (2)	
moment of inertia cm ⁴	$I_x = 111.0$ $I_y = 111.0$	$I_x = 110.2$ $I_y = 110.2$	$I_x = 794.0$ $I_y = 233.0$	
moment of resistance cm ³	$W_x = 28.0$ $W_y = 28.0$	$W_x = 27.6$ $W_y = 27.6$	$W_x = 99.3$ $W_y = 58.3$	
weight kg/m	G = 4.1	G = 4.5	G = 8.8	

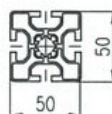
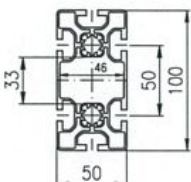
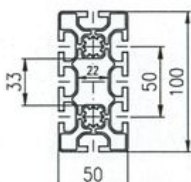
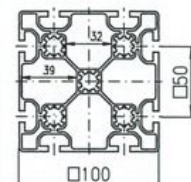
heavy 				
				
				
Description	Profile 80×80, 8E, S	Profile 80×80, 8E, angle, S		
bar, 6 m	1.11.080080.83S.60	1.11.080080.87S.60		
packing unit (number)	1.11.080080.83S.61 (2)	1.11.080080.87S.61 (2)		
moment of inertia cm ⁴	$I_x = 166.0$ $I_y = 166.0$	$I_x = 120.0$ $I_y = 120.0$		
moment of resistance cm ³	$W_x = 41.4$ $W_y = 41.4$	$W_x = 23.8$ $W_y = 23.8$		
weight kg/m	G = 5.9	G = 5.4		

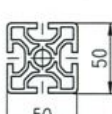
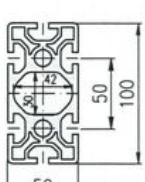
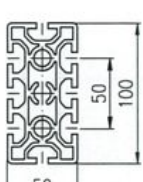
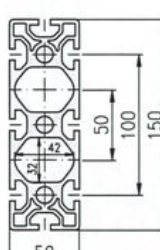
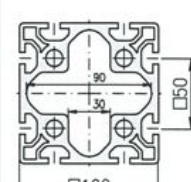
light				
				
				
				
Description	Profile 45×45, 4E, L	Profile 45×60, 4E, L	Profile 45×90, 6E, L	
bar, 6 m	1.11.045045.43L.60	1.11.045060.44L.60	1.11.045090.64L.60	
packing unit (number)	1.11.045045.43L.61 (8)	1.11.045060.44L.61 (6)	1.11.045090.64L.61 (4)	
moment of inertia cm ⁴	$I_x = 13.5$ $I_y = 13.5$	$I_x = 26.5$ $I_y = 16.0$	$I_x = 98.0$ $I_y = 27.5$	
moment of resistance cm ³	$W_x = 6.0$ $W_y = 6.0$	$W_x = 9.0$ $W_y = 7.2$	$W_x = 21.8$ $W_y = 12.2$	
weight kg/m	G = 1.9	G = 2.3	G = 3.3	

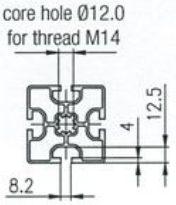
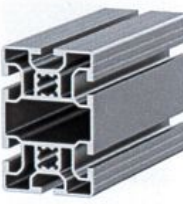
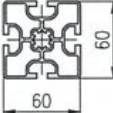
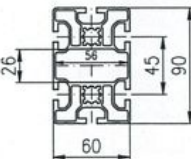
heavy				
				
				
				
				
				
Description	Profile 45×45, 4E, S		Profile 45×90, 6E, S	
bar, 6 m	1.11.045045.43S.60		1.11.045090.64S.60	
packing unit (number)	1.11.045045.43S.61 (8)		1.11.045090.64S.61 (4)	
moment of inertia cm ⁴	$I_x = 16.8$ $I_y = 16.8$		$I_x = 126.0$ $I_y = 34.0$	
moment of resistance cm ³	$W_x = 7.4$ $W_y = 7.4$		$W_x = 28.0$ $W_y = 15.0$	
weight kg/m	G = 2.3		G = 4.4	

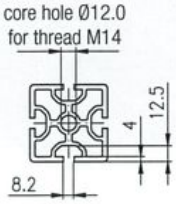
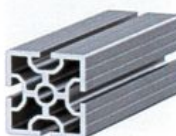
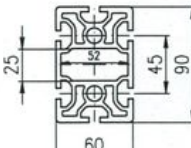
light 				 
Description				Profile 50×50, 3E, L
bar, 6 m				1.11.050050.33L.60
packing unit (number)				1.11.050050.33L.61 (6)
moment of inertia cm ⁴ moment of resistance cm ³ weight kg/m				$I_x = 18.4$ $I_y = 16.0$ $W_x = 7.3$ $W_y = 5.8$ $G = 1.9$

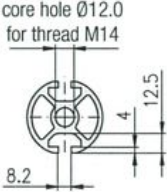
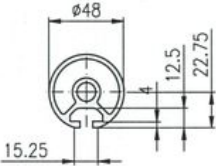
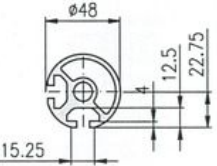
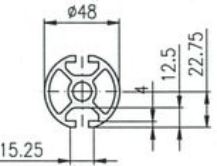
heavy  	 	 		 
Description	Profile 50×50, 2E, soft, S	Profile 50×50, 2E, corner, S		Profile 50×50, 3E, S
bar, 6 m	1.11.050050.21S.60	1.11.050050.22S.60		1.11.050050.33S.60
packing unit (number)	1.11.050050.21S.61 (6)	1.11.050050.22S.61 (6)		1.11.050050.33S.61 (6)
moment of inertia cm ⁴ moment of resistance cm ³ weight kg/m	$I_x = 18.8$ $I_y = 18.8$ $W_x = 7.5$ $W_y = 7.5$ $G = 2.3$	$I_x = 27.4$ $I_y = 27.4$ $W_x = 10.9$ $W_y = 10.9$ $G = 3.0$		$I_x = 27.3$ $I_y = 28.2$ $W_x = 11.1$ $W_y = 11.1$ $G = 3.1$

				
				
Profile 50×50, 4E, L	Profile 50×100, 6E, L	Profile 50×100, 8E, L		Profile 100×100, 8E, L
1.11.050050.43L.60	1.11.050100.64L.60	1.11.050100.84L.60		1.11.100100.83L.60
1.11.050050.43L.61 (6)	1.11.050100.64L.61 (3)	1.11.050100.84L.61 (3)		1.11.100100.83L.61 (2)
$I_x = 19.2$ $I_y = 19.2$ $W_x = 7.7$ $W_y = 7.7$ $G = 2.2$	$I_x = 138.0$ $I_y = 37.0$ $W_x = 27.5$ $W_y = 14.5$ $G = 3.5$	$I_x = 137.0$ $I_y = 40.0$ $W_x = 27.5$ $W_y = 16.0$ $G = 4.0$		$I_x = 254.1$ $I_y = 254.1$ $W_x = 45.4$ $W_y = 45.4$ $G = 6.2$

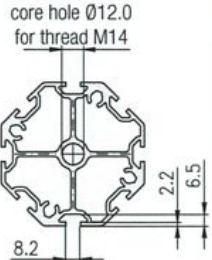
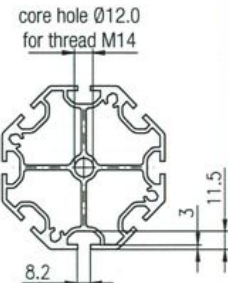
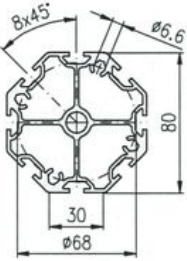
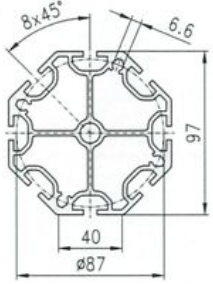
				
				
Profile 50×50, 4E, S	Profile 50×100, 6E, S	Profile 50×100, 8E, S	Profile 50×150, 8E, S	Profile 100×100, 8E, S
1.11.050050.43S.60	1.11.050100.64S.60	1.11.050100.84S.60	1.11.050150.84S.60	1.11.100100.83S.60
1.11.050050.43S.61 (6)	1.11.050100.64S.61 (3)	1.11.050100.84S.61 (3)	1.11.050150.84S.61 (2)	1.11.100100.83S.61 (2)
$I_x = 27.3$ $I_y = 27.3$ $W_x = 11.0$ $W_y = 11.0$ $G = 3.1$	$I_x = 202.0$ $I_y = 57.2$ $W_x = 40.4$ $W_y = 22.8$ $G = 5.9$	$I_x = 200.0$ $I_y = 53.3$ $W_x = 39.9$ $W_y = 21.3$ $G = 6.0$	$I_x = 628.0$ $I_y = 83.0$ $W_x = 83.0$ $W_y = 33.0$ $G = 8.1$	$I_x = 411.0$ $I_y = 411.0$ $W_x = 82.0$ $W_y = 82.0$ $G = 9.7$

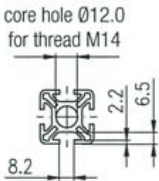
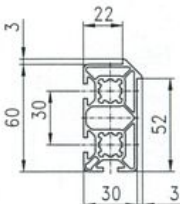
light				
				
 				
 				
Description	Profile 60×60, 4E, L		Profile 60×90, 6E, L	
bar, 6 m	1.11.060060.43L.60		1.11.060090.64L.60	
packing unit (number)	1.11.060060.43L.61 (6)		1.11.060090.64L.61 (3)	
moment of inertia cm ⁴	$I_x = 35.5$ $I_y = 35.5$		$I_x = 125.8$ $I_y = 54.3$	
moment of resistance cm ³	$W_x = 11.7$ $W_y = 11.7$		$W_x = 27.9$ $W_y = 18.1$	
weight kg/m	G = 2.7		G = 3.9	

heavy				
				
 				
 				
Description	Profile 60×60, 4E, S		Profile 60×90, 6E, S	
bar, 6 m	1.11.060060.43S.60		1.11.060090.64S.60	
packing unit (number)	1.11.060060.43S.61 (6)		1.11.060090.64S.61 (3)	
moment of inertia cm ⁴	$I_x = 56.0$ $I_y = 56.0$		$I_x = 193.0$ $I_y = 83.0$	
moment of resistance cm ³	$W_x = 18.7$ $W_y = 18.7$		$W_x = 43.0$ $W_y = 27.5$	
weight kg/m	G = 4.2		G = 6.0	

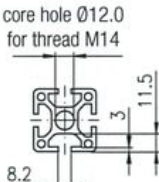
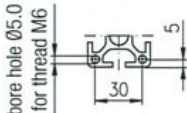
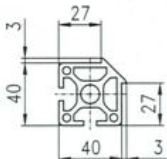
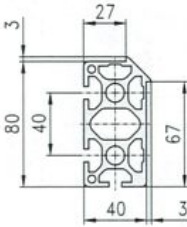
heavy 				
				
				
Description	Profile 48, round, 1E, SP	Profile 48, round, 2E, corner, SP	Profile 48, round, 2E, SP	
bar, 6 m	1.11.048R00.10SP.60	1.11.048R00.22SP.60	1.11.048R00.20SP.60	
packing unit (number)	1.11.048R00.10SP.61 (6)	1.11.048R00.22SP.61 (6)	1.11.048R00.20SP.61 (6)	
moment of inertia cm ⁴	$I_x = 12.5$ $I_y = 12.9$	$I_x = 12.0$ $I_y = 12.0$	$I_x = 12.5$ $I_y = 13.5$	
moment of resistance cm ³	$W_x = 4.9$ $W_y = 5.4$	$W_x = 5.0$ $W_y = 5.0$	$W_x = 5.1$ $W_y = 5.9$	
weight kg/m	G = 1.8	G = 2.0	G = 2.0	

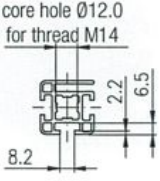
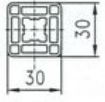
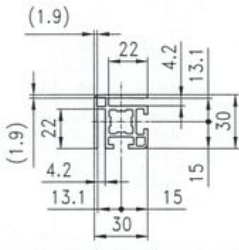
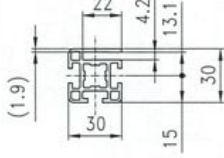
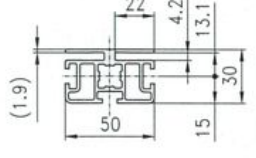
Profiles octagonal, F / E3-slot, P (plain)

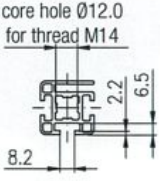
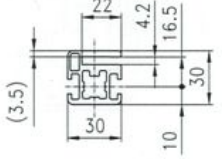
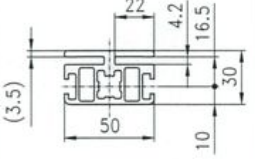
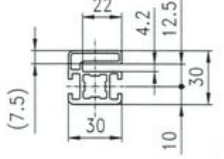
heavy  				
				
				
Description	Profile 30, octagonal, 8F, SP	Profile 40, octagonal, 8E, SP		
bar, 6 m	1.11.0308kt.89SP.60	1.11.0408kt.89SP.60		
packing unit (number)	1.11.0308kt.89SP.61 (2)	1.11.0408kt.89SP.61 (2)		
moment of inertia cm ⁴	$I_x = 84.0$ $I_y = 84.0$	$I_x = 176.6$ $I_y = 176.6$		
moment of resistance cm ³	$W_x = 21.0$ $W_y = 21.0$	$W_x = 35.3$ $W_y = 35.3$		
weight kg/m	G = 3.9	G = 5.8		

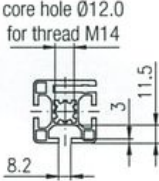
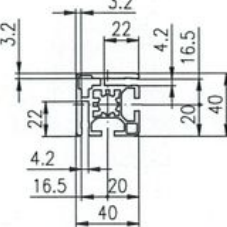
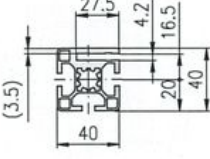
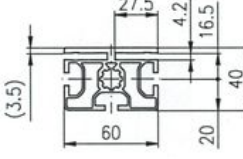
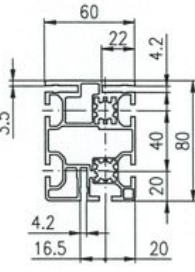
light 		 		
Description		Panel bazel profile 30×60, 3F, 45°, LP		
bar, 6 m		1.13.030060.39LP.60		
packing unit (number)		1.13.030060.39LP.61 (4)		
moment of inertia cm ⁴ moment of resistance cm ³ weight kg/m		$I_x = 22.8$ $I_y = 6.1$ $W_x = 7.6$ $W_y = 4.0$ $G = 1.7$		

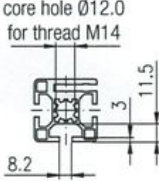
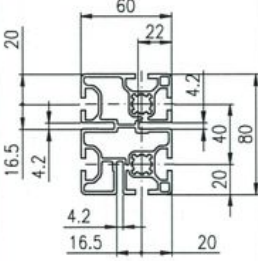
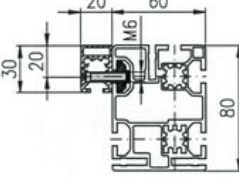
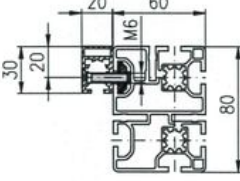
Panel bazel profile 40, E3-slot, P (plain)

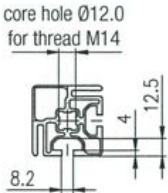
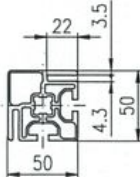
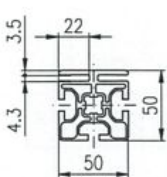
heavy  	 	 		
Description	Panel bazel profile 40×40, 2E, 45°, SP	Panel bazel profile 40×80, 3E, 45°, SP		
bar, 6 m	1.13.040040.29SP.60	1.13.040080.39SP.60		
packing unit (number)	1.13.040040.29SP.61 (8)	1.13.040080.39SP.61 (4)		
moment of inertia cm ⁴ moment of resistance cm ³ weight kg/m	$I_x = 12.1$ $I_y = 12.1$ $W_x = 6.1$ $W_y = 6.1$ $G = 2.1$	$I_x = 101.9$ $I_y = 23.5$ $W_x = 25.5$ $W_y = 11.8$ $G = 3.8$		

light 				
	 	 	 	 
Description	Panel profile 30×30, OF, LP	Panel profile 30×30, 2F, corner, LP 4	Panel profile 30×30, 3F, LP 4	Panel profile 30×50, 3F, LP 4
bar, 6 m	1.14.030030.03LP0.60	1.14.030030.22LP4.60	1.14.030030.33LP4.60	1.14.030050.34LP4.60
packing unit (number)	1.14.030030.03LP0.61(10)	1.14.030030.22LP4.61(10)	1.14.030030.33LP4.61(10)	1.14.030050.34LP4.61 (6)
moment of inertia cm ⁴	$I_x = 3.8$ $I_y = 3.8$	$I_x = 3.3$ $I_y = 3.3$	$I_x = 3.3$ $I_y = 2.8$	$I_x = 5.5$ $I_y = 11.8$
moment of resistance cm ³	$W_x = 2.4$ $W_y = 2.4$	$W_x = 2.2$ $W_y = 2.2$	$W_x = 2.2$ $W_y = 1.8$	$W_x = 3.6$ $W_y = 4.8$
weight kg/m	G = 1.1	G = 1.0	G = 0.9	G = 1.5

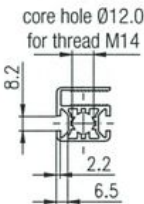
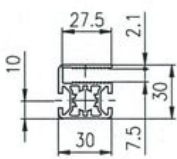
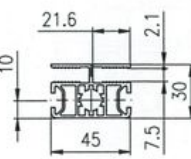
light 				
	 	 		 
Description	Panel profile 30×30, 2F, LP 5	Panel profile 30×50, 2F, LP 5		Panel profile 30×30, 2F, LP 6
bar, 6 m	1.14.030030.23LP5.60	1.14.030050.24LP5.60		1.14.030030.23LP6.60
packing unit (number)	1.14.030030.23LP5.61(10)	1.14.030050.24LP5.61(10)		1.14.030030.23LP6.61 (6)
moment of inertia cm ⁴	$I_x = 4.3$ $I_y = 3.3$	$I_x = 7.0$ $I_y = 14.7$		$I_x = 3.6$ $I_y = 2.8$
moment of resistance cm ³	$W_x = 2.8$ $W_y = 2.2$	$W_x = 4.7$ $W_y = 5.9$		$W_x = 2.4$ $W_y = 1.9$
weight kg/m	G = 1.2	G = 1.9		G = 1.0

light 				
				
				
Description	Panel profile 40×40, 2E, corner, LP 4	Panel profile 40×40, 3E, LP 4	Panel profile 40×60, 3E, LP 4	Panel profile 60×80, 5E, LP 4
bar, 6 m	1.14.040040.22LP4.60	1.14.040040.33LP4.60	1.14.040060.34LP4.60	1.14.060080.54LP4.60
packing unit (number)	1.14.040040.22LP4.61 (8)	1.14.040040.33LP4.61 (8)	1.14.040060.34LP4.61 (8)	1.14.060080.54LP4.61 (4)
moment of inertia cm ⁴	$I_x = 10.3$ $I_y = 10.3$	$I_x = 10.2$ $I_y = 8.7$	$I_x = 14.8$ $I_y = 26.3$	$I_x = 100.4$ $I_y = 50.4$
moment of resistance cm ³	$W_x = 5.2$ $W_y = 5.2$	$W_x = 5.1$ $W_y = 4.3$	$W_x = 7.4$ $W_y = 8.8$	$W_x = 25.1$ $W_y = 16.8$
weight kg/m	G = 1.8	G = 1.65	G = 2.4	G = 3.8

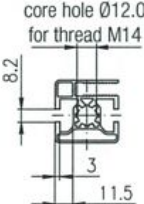
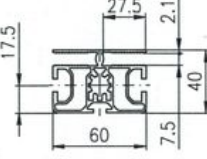
light 				
				
				
Description	Panel profile 60×80, 6E, LP 4	Profile 20×30, 1F, LP	Assembly drawing	Assembly drawing
bar, 6 m	1.14.060080.64LP4.60	1.11.020030.14LP.60		
packing unit (number)	1.14.060080.64LP4.61 (4)	1.11.020030.14LP.61 (10)		
moment of inertia cm ⁴	$I_x = 88.1$ $I_y = 52.0$	$I_x = 2.2$ $I_y = 1.4$	$I_x = 113.0$ $I_y = 64.0$	$I_x = 89.2$ $I_y = 53.3$
moment of resistance cm ³	$W_x = 22.1$ $W_y = 17.3$	$W_x = 1.5$ $W_y = 1.4$	$W_x = 28.5$ $W_y = 21.3$	$W_x = 22.3$ $W_y = 17.7$
weight kg/m	G = 3.7	G = 0.7	G = 4.5	G = 4.4

light				
				
				
Description	Panel profile 50×50, 2E, corner, LP 4	Panel profile 50×50, 3E, LP 4		
bar, 6 m	1.14.050050.22LP4.60	1.14.050050.39LP4.60		
packing unit (number)	1.14.050050.22LP4.61 (6)	1.14.050050.39LP4.61 (6)		
moment of inertia cm ⁴	$I_x = 19.4$ $I_y = 19.4$	$I_x = 24.1$ $I_y = 21.4$		
moment of resistance cm ³	$W_x = 7.6$ $W_y = 7.6$	$W_x = 8.0$ $W_y = 8.5$		
weight kg/m	$G = 2.4$	$G = 2.7$		

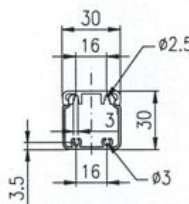
light						

light 	 	 		
Description	Wire net profile 30×30, 2F, LP 7.5	Wire net profile 30×45, 2F, LP 7.5		
bar, 6 m	1.15.030030.23LP7.60	1.15.030045.24LP7.60		
packing unit (number)	1.15.030030.23LP7.61(10)	1.15.030045.24LP7.61 (8)		
moment of inertia cm ⁴	$I_x = 2.6$ $I_y = 3.2$	$I_x = 4.3$ $I_y = 7.4$		
moment of resistance cm ³	$W_x = 1.7$ $W_y = 2.1$	$W_x = 2.9$ $W_y = 3.3$		
weight kg/m	$G = 0.86$	$G = 1.15$		

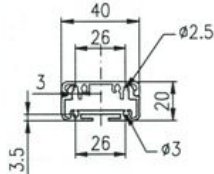
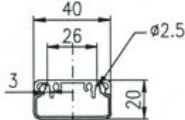
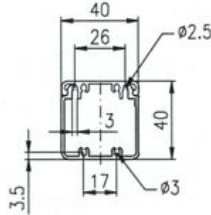
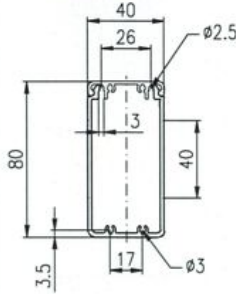
light				

light	   				
Description	Wire net profile 40×40, 2E, LP 7.5		Wire net profile 40×60, 2E, 1F, LP 7.5		
bar, 6 m	1.15.040040.23LP7.60		1.15.040060.34LP7.60		
packing unit (number)	1.15.040040.23LP7.61 (8)		1.15.040060.34LP7.61 (8)		
moment of inertia cm ⁴	$I_x = 7.5$ $I_y = 8.2$		$I_x = 12.2$ $I_y = 22.5$		
moment of resistance cm ³	$W_x = 3.8$ $W_y = 4.1$		$W_x = 6.1$ $W_y = 7.5$		
weight kg/m	G = 1.35		G = 1.97		

light				

Cover profile 30			Description	E-trunking profile, lid 30
			bar, 6 m	1.19.2030D.60
			packing unit (number)	1.19.2030D.61 (8)
			cut to length	1.19.2030D-A00A00/...
			weight kg/m	G = 0.24
Base profiles 30				
	Technical data			
	material: Al Mg Si 0.5 F25			
	tensile strength: 250 N/mm²			
	surface: natural anodised			
	Description		E-trunking profile 30×30	
bar, 6 m		1.19.203030G.60		
packing unit (number)		1.19.203030G.61 (8)		
cut to length		1.19.203030G-A00A00/...		
weight kg/m		G = 0.38		

End plates ➡ 7.16

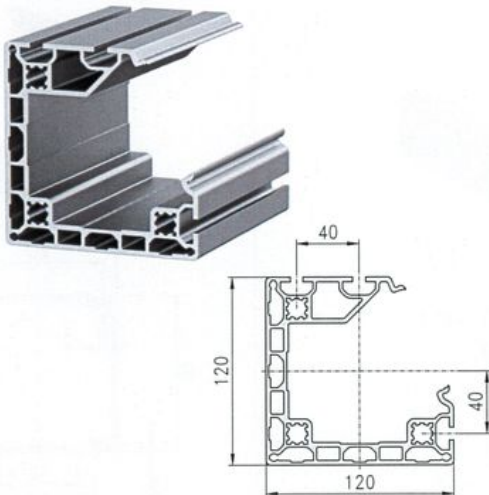
Cover profile 40			Description	E-trunking profile, lid 40	
			bar, 6 m	1.19.2040D.60	
			packing unit (number)	1.19.2040D.61 (8)	
			cut to length	1.19.2040D-A00A00/...	
			weight kg/m	G = 0.35	
Base profiles 40	 	 	 	 	
	Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised				
	Description	E-trunking profile 40×20, for clips	E-trunking profile 40×20	E-trunking profile 40×40	E-trunking profile 40×80
	bar, 6 m	1.19.214020G.60	1.19.204020G.60	1.19.204040G.60	1.19.204080G.60
	packing unit (number)	1.19.214020G.61 (16)	1.19.204020G.61 (16)	1.19.204040G.61 (8)	1.19.204080G.61 (4)
	cut to length	1.19.214020G-A00A00/...	1.19.204020G-A00A00/...	1.19.204040G-A00A00/...	1.19.204080G-F00F00/...
weight kg/m	G = 0.50	G = 0.30	G = 0.61	G = 1.24	

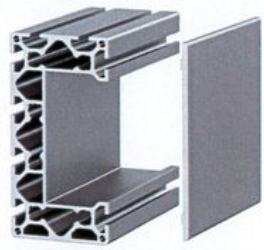
End plates ➡ 7.16

(/... = Length in mm)

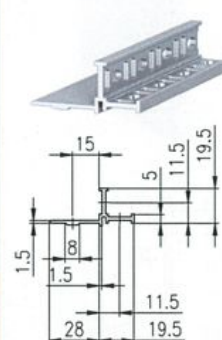
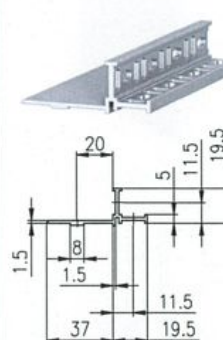
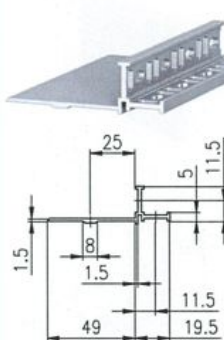
1

1.47

Cover profile 80		Description		E-trunking profile, lid 80	
		bar, 6 m		1.19.2080D.60	
		packing unit	(number)	1.19.2080D.61	(4)
		cut to length		1.19.2080D-F00F00/...	
		weight	kg/m	G = 0.59	
Base profile 120					
Technical data					
material:		Al Mg Si 0.5 F25			
tensile strength:		250 N/mm ²			
surface:		natural anodised			
Description		E-trunking profile 120×120, 3E, LP			
bar, 6 m		1.11.120120.39LP.60			
packing unit (number)					
moment of inertia cm ⁴		I _x = 538.3 I _y = 275.2			
moment of resistance cm ³		W _x = 89.8 W _y = 45.8			
weight kg/m		G = 6.7			

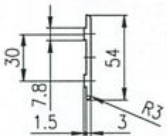
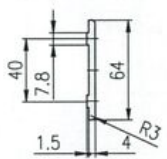
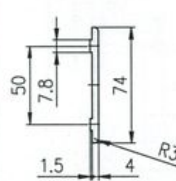
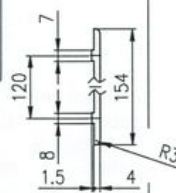
E-trunking profile 160		
Technical data		
material: Al Mg Si 0.5 F25		
tensile strength: 250 N/mm ²		
surface: natural anodised		
Description	Profile 80×160, 8E, SP ➡ 1.21, 7.14 - 7.17	Cover profile: Profile pre-cut lid 120 ➡ 1.50, 7.14 - 7.17
bar, 6 m	1.11.080160.89SP.60	1.19.1101120.60
packing unit (number)	1.11.080160.89SP.61 (2)	1.19.1101120-L00L00/... (cut to length)
moment of inertia cm ⁴	$I_x = 944.0 \quad I_y = 183.0$	
moment of resistance cm ³	$W_x = 118.0 \quad W_y = 45.8$	
weight kg/m	G = 7.9	
	G = 1.80	

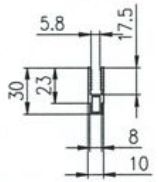
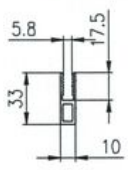
(/... = Length in mm); machining data ➡ Profile machining 1.1A

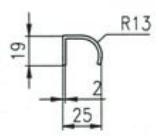
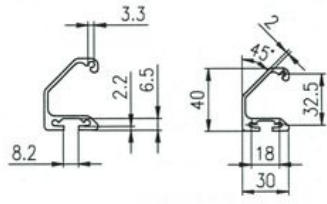
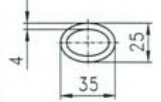
19" profiles				
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised				
Description		19" profile, PG 30	19" profile, PG 40	19" profile, PG 50
bar, 6 m		1.19.19030.60	1.19.19040.60	1.19.19050.60
cut to length		1.19.19030-A00A00/...	1.19.19040-A00A00/...	1.19.19050-A00A00/...
weight	kg/m	G = 0.4	G = 0.45	G = 0.5

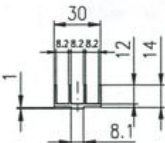
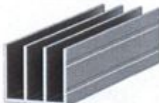
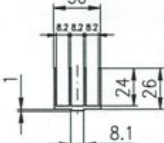
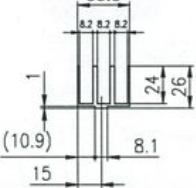
Tubes

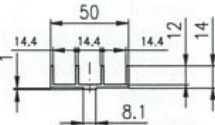
Tubes				
Technical data material: Al Mg Si 0.5 F22 extruded profiles as per DIN 755-9 tensile strength: 250 N/mm ² surface: natural anodised				
Description		Tube Ø20×2	Tube Ø30×3	Tube Ø40×4
bar, 6 m		1.19.16120.60	1.19.16130.60	1.19.16140.60
cut to length		1.19.16120-A00A00/...	1.19.16130-A00A00/...	1.19.16140-A00A00/...
weight	kg/m	G = 0.3	G = 0.7	G = 1.3

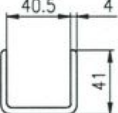
Profile pre-cut lids Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised				Application  E-trunking profiles, 1.46, 7.14 - 7.17
				
	Description	Profile pre-cut lid 30	Profile pre-cut lid 40	Profile pre-cut lid 50
	bar, 6 m	1.19.110130.60	1.19.110140.60	1.19.110150.60
	cut to length	1.19.110130-A00A00/...	1.19.110140-A00A00/...	1.19.110150-F00F00/...
weight	kg/m	G = 0.49	G = 0.74	G = 0.85
Profile pre-cut lid 120				
bar, 6 m				
cut to length				
weight				
kg/m				
G = 1.80				

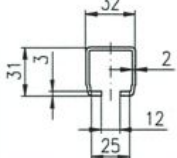
Wire net mounting profiles Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised				
				
	Description	Wire net mounting profile	Wire net mounting profile 33x10	
	bar, 6 m	1.19.14230.60	1.19.1423310.60	
	cut to length	1.19.14230-A00A00/...	1.19.1423310-A00A00/...	
weight	kg/m	G = 0.3	G = 0.4	

Grab handle profiles Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised		F-slot 	Oval tube bar, 3 m 
			
	Description	Grab handle profile	Grab handle profile
	bar, 6 m	1.19.14319.60	1.19.14330.60
	cut to length	1.19.14319-A00A00/...	1.19.14330-A00A00/...
weight	kg/m	G = 0.3	G = 0.73
Oval tube 35x4			
bar, 3 m			
cut to length			
weight			
kg/m			
G = 0.83			

Sliding profiles					
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised		 	 	 	
Description		Sliding profile 30×14	Sliding profile 30×26	Sliding profile 33×26	
bar, 6 m		1.19.15130.60	1.19.15131.60	1.19.15134.60	
cut to length		1.19.15130-A00A00/...	1.19.15131-A00A00/...	1.19.15134-A00A00/...	
weight	kg/m	G = 0.4	G = 0.6	G = 0.8	

Sliding profile					
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised		 			
Description		Sliding profile 50×14			
bar, 6 m		1.19.15150.60			
cut to length		1.19.15150-A00A00/...			
weight	kg/m	G = 0.6			

U-profile		
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised		 
Description		U-profile 40
bar, 6 m		1.19.14440.60
cut to length		1.19.14440-A00A00/...
weight	kg/m	G = 1.35

C-track		
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised		 
Description		C-track
bar, 6 m		1.19.14532.60
cut to length		1.19.14532-A00A00/...
weight	kg/m	G = 0.6

(/... = Length in mm)

Summary

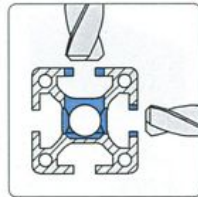


Saw cut

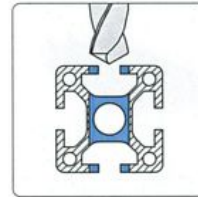
➡ 1.53


Cross bushing
bores for connectors

➡ 1.54

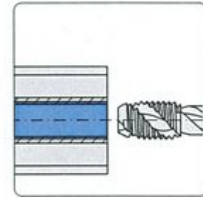

Bores
for parallel-connector

➡ 1.54



Cross bore

➡ 1.54



Thread

➡ 1.54

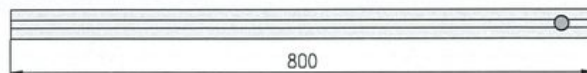
Comments

- Profile machinings are defined by the article-number of the profile.
- For more complex machinings, additional order descriptions are needed.
- Non-standard machinings will be completed as per drawings

Order description

Profile	machining		profile side	
Order-No.: 1.□□.□□□□□□.□□□□ -	□□□□□□	/ □□□□		
	□ □ □ □ / □ □ □ □		saw cut	➡ 1.53
	□ □ □ □ / □ □ □ □		cross bushing bores, bores for parallel-connector, cross bore, thread	➡ 1.54
	□ □ □ □ □ □ □ □ □ □		direction	➡ 1.55
	□ □ □ □ □ □ □ □ □ □	□ □ □ □	length in mm	

Order example



Description

Profile 40×40, 4E-slots, S
Length: 800 mm
right side: 1 connector bore

Article-No.

1.11.040040.43S-A00AA4/800

Article-Description

Profile 40×40, 4E-slots, S
□□□□
Specifications for special profile machining

coding examples ➡ 1.1B

Saw cut

Saw cut tolerance: ± 0.1 mm



Disposition of angles

Cut is right view

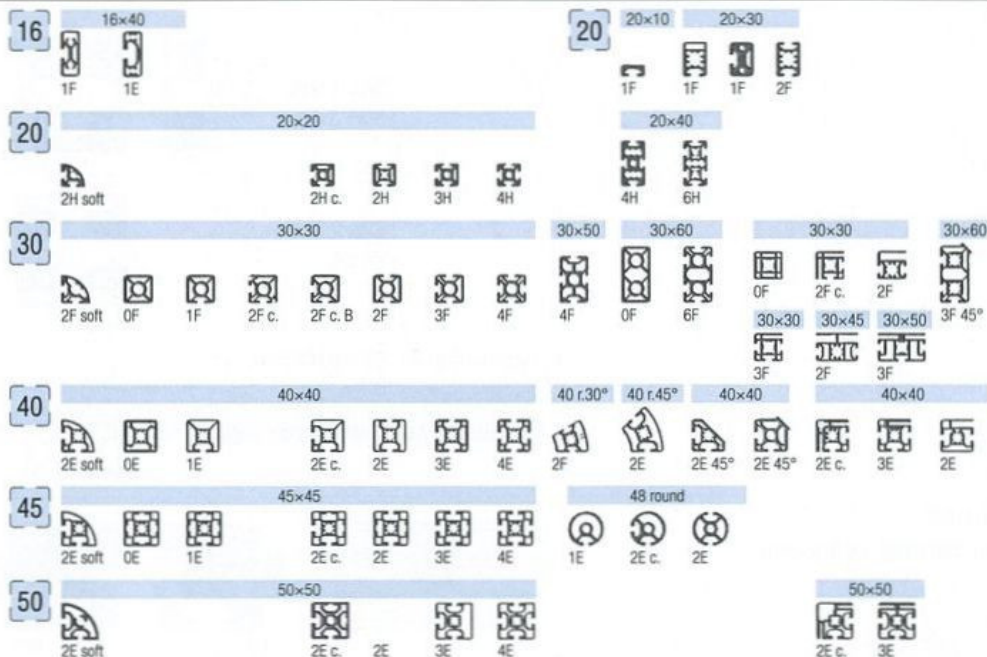
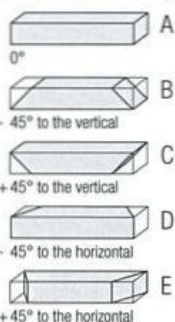
- For angle cuts specify the absolute length
- Angle cuts without specification = 45°

Specification for special angle:

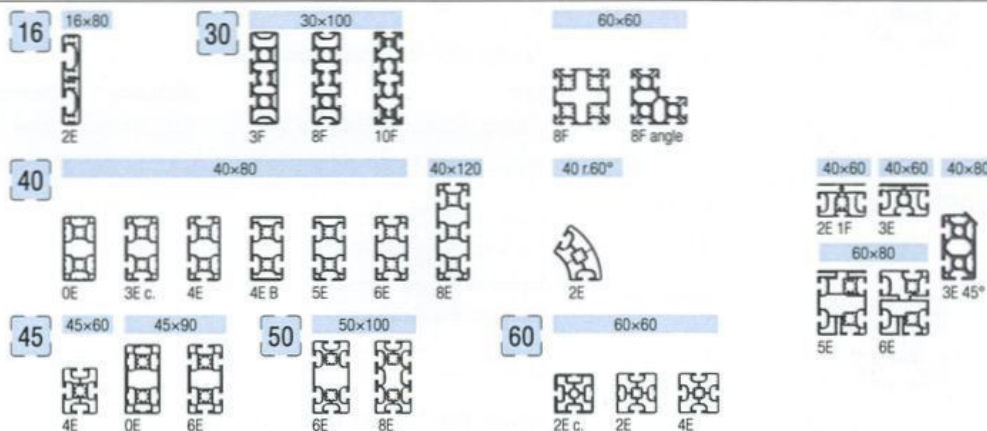
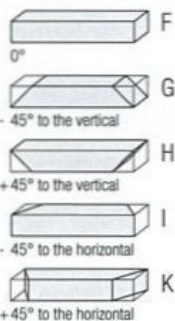
Special angle, left: °

Special angle, right: °

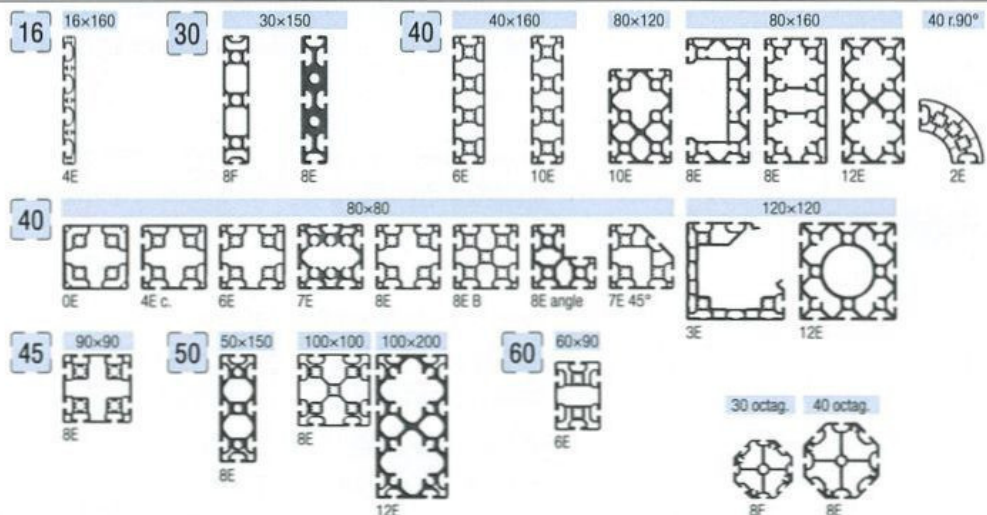
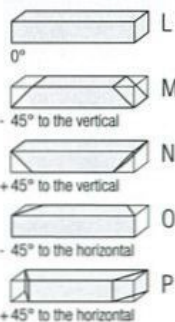
Price group 1



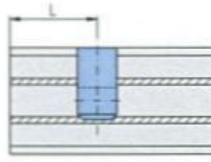
Price group 2



Price group 3

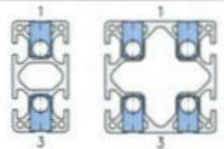
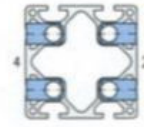


Cross bushing bore for connector



number of bores

- 1 = A 6 = F
 2 = B 7 = G
 3 = C 8 = H
 4 = D 9 = I
 5 = E 10 = K
 0 = without machining

Disposition rule for connectors at opposed profile sides		
Specified Direction	Position of bore	Example
1	Side 1 and Side 3	
2	Side 2 and Side 4	

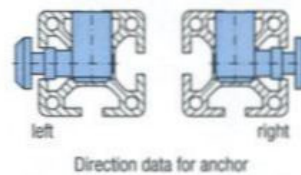
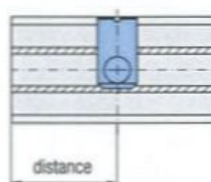
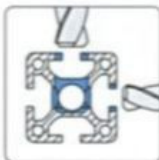
Specification for special position:

Position for cross bushing bore, left: □□□...

Position for cross bushing bore, right: □□□...

initials (→ 1.55, „Direction and Position“)

Bores for parallel-connector

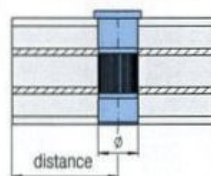


Parallel-connector = Z
 without machining = 0

Specification for parallel-connector:

text	distance	direction
Parallel-connector, distance left:	□□.□ mm	anchor left / right
Parallel-connector, distance right:	□□.□ mm	anchor left / right

Cross bore



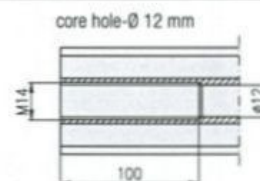
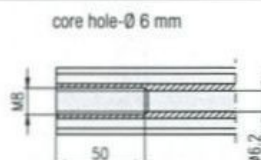
Cross bore = Q
 without machining = 0

Specification for cross bore:

Cross bore, left: Ø□□ mm, distance □□ mm

Cross bore, right: Ø□□ mm, distance □□ mm

Thread



number of threads

- 1 = L 6 = S
 2 = M 7 = T
 3 = N 8 = U
 4 = P 9 = V
 5 = R 10 = W
 0 = without machining

Specification for special thread designs:

Depth of thread, left: □□□... mm

Depth of thread, right: □□□... mm

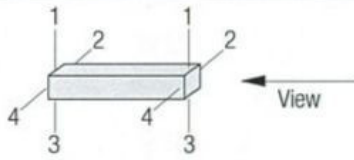
Position of thread, left: □□□...

Position of thread, right: □□□...

small letters (→ 1.55, „Direction and Position“)

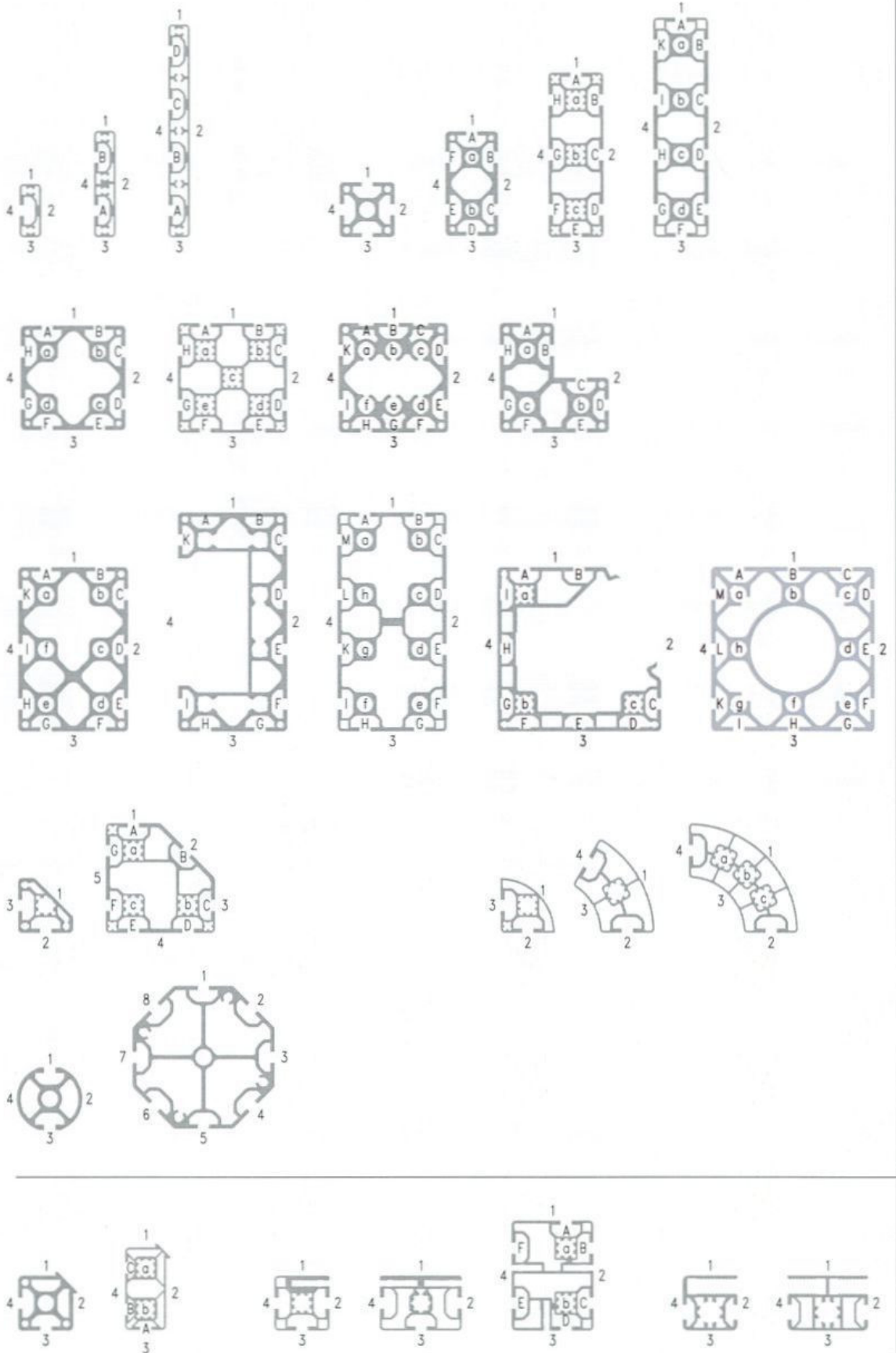
Further machining possibilities as per sketch.

Direction and Position

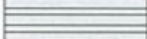
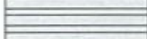
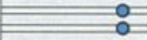
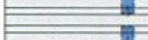
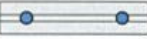
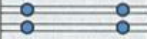
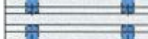
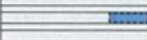
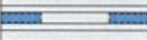
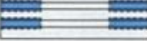
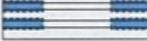
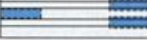
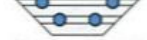


Description

Direction: 1 - 4
Position of slot: A - M
Position of thread: a - h

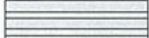
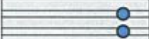
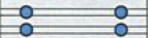
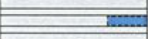
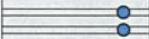
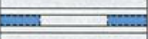
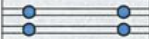
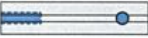
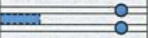
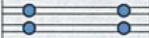
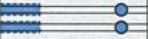
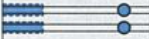
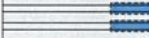
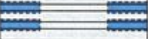
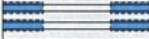
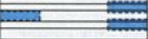
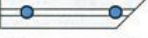
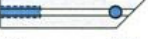
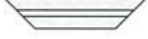
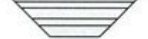
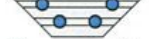
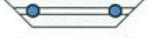
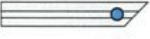


Coding examples for price group 1

		
 -A00A00	 -A00A00	 -A00A00
 -A00AA4 1V	 -A00AB4 2V	 -A00AB1 2V
 -AA4AA4 1V 1V	 -AB4AB4 2V 2V	 -AB1AB1 2V 2V
 -A00AL0 1G	 -A00AL0 1G	 -A00AD2 4V
 -AL0AL0 1G 1G	 -AL0AL0 1G 1G	 -AB4AD2 2V 4V
 -AL0AA4 1G 1V	 -AL0AB4 1G 2V	 -AD2AD2 4V 4V
 -A00AQ1 1Q	 -AM0AB4 2G 2V	 -AP0AD2 4G 4V
 -AA4AQ1 1V 1Q	 -A00AM0 2G	 -A00AP0 4G
 -AQ1AQ1 1Q 1Q	 -AM0AM0 2G 2G	 -AP0AP0 4G 4G
 -AL0AQ1 1G 1Q	 -AL0AM0 1G 2G	 -A00C00
 -A00C00	 -A00C00	 -A00E00
 -A00CA4 1V	 -A00CB4 2V	 -A00EB1 2V
 -AA4CA4 1V 1V	 -AB4CB4 2V 2V	 -AB1EB1 2V 2V
 -AL0CA4 1G 1V	 -AL0CB4 1G 2V	 -AL0EB1 1G 2V
 -C00C00	 -C00C00	 -E00E00
 -CA4CA4 1V 1V	 -CB4CB4 2V 2V	 -EB1EB1 2V 2V
		top view
		 -A00E00
		 -A00CD2 4V
		 -AD2CD2 4V 4V
		 -AD1CD1 4V 4V
		 -C00C00
		 -CD2CD2 4V 4V
		 -CD1CD1 4V 4V

V = connector bore, G = thread, Q = cross bore

Coding examples for price group 2

	 	
 -F00F00	 -F00F00	 -F00F00
 -F00FA4 1V	 -F00FB4 2V	 -F00FB1 2V
 -FA4FA4 1V 1V	 -FB4FB4 2V 2V	 -FB4FB4 2V 2V
 -F00FL0 1G	 -F00FL0 1G	 -F00FD2 4V
 -FL0FL0 1G 1G	 -FL0FL0 1G 1G	 -FB4FD2 2V 4V
 -FL0FA4 1G 1V	 -FL0FB4 1G 2V	 -FD2FD2 4V 4V
 -F00FQ1 1Q	 -FM0FB4 2G 2V	 -FP0FD2 4G 4V
 -FA4FQ1 1V 1Q	 -F00FM0 2G	 -F00FP0 4G
 -FQ1FQ1 1Q 1Q	 -FM0FM0 2G 2G	 -FP0FP0 4G 4G
 -FL0FQ1 1G 1Q	 -FLOFM0 1G 2G	 -F00H00
 -F00H00	 -F00H00	 -F00K00
 -F00HA4 1V	 -F00HB4 2V	 -F00KB1 2V
 -FA4HA4 1V 1V	 -FB4HB4 2V 2V	 -FB1KB1 2V 2V
 -FL0HA4 1G 1V	 -FLOHB4 1G 2V	 -FLOKB1 1G 2V
 -H00H00	 -H00H00	 -K00K00
 -HA4HA4 1V 1V	 -HB4HB4 2V 2V	 -KB1KB1 2V 2V
		top view
		 -F00H00
		 -F00KB1 2V
		 -FB1KB1 2V 2V
		 -FLOKB1 1G 2V
		 -K00K00
		 -KB1KB1 2V 2V

V = connector bore, G = thread, Q = cross bore

Coding examples for price group 3

												
 -L00L00  -L00LB4 2V  -LB4LB4 2V 2V  -L00LD2 4V  -LB4LD2 2V 4V  -LD2LD2 4V 4V  -LPOLD2 4G 4V  -L00LP0 4G  -LPOLP0 4G 4G  -L00N00  -LLOND2 1G 4V  -LD2ND2 4V 4V  -LD1ND1 4V 4V  -N00N00  -ND2ND2 4V 4V  -ND1ND1 4V 4V	 -L00L00  -L00LB4 2V  -LB4LB4 2V 2V  -L00LD4 4V  -LD4LD4 4V 4V  -L00LM0 2G  -L00N00  -LB4NB4 2V 2V  -LD4ND4 4V 4V  -N00N00  -NB4NB4 2V 2V  -ND4ND4 4V 4V	 -L00L00  -L00LB1 2V  -LB1LB1 2V 2V  -L00LD2 4V  -LH2LH2 8V 8V  -L00LU0 8G  -L00N00  -L00PB1 2V  -LB1PB1 2V 2V  -P00P00  -PB1PB1 2V 2V  -L00ND2 4V  -ND1ND1 4V 4V										
top view												
 -L00P00	 -L00PB1 2V  -LB1PB1 2V 2V  -P00P00  -PB1PB1 2V 2V	 -L00N00  -L00N00 4V  -LH2NH2 8V 8V  -N00N00  -N00N00 4V 4V  -ND1ND1 4V 4V										
Order examples for special design												
<table><tr><th>Article-No..</th><th>Description</th></tr><tr><td>① 1.11.□□□□□□.□□□□ -L00LD2</td><td>Profile □□□×□□□.□□□□ Connector position, right: CFIM (additional description)</td></tr><tr><td>② 1.11.□□□□□□.□□□□ -LD2LD2</td><td>Profile □□□×□□□.□□□□ Connector position, left: CFIM (additional description) Connector position, right: CFIM</td></tr><tr><td>③ 1.11.□□□□□□.□□□□ -L00ND2</td><td>Profile □□□×□□□.□□□□ Connector position, right: CFIM (additional description)</td></tr><tr><td>④ 1.11.□□□□□□.□□□□ -ND2ND2</td><td>Profile □□□×□□□.□□□□ Connector position, left: CFIM (additional description) Connector position, right: CFIM</td></tr></table>			Article-No..	Description	① 1.11.□□□□□□.□□□□ -L00LD2	Profile □□□×□□□.□□□□ Connector position, right: CFIM (additional description)	② 1.11.□□□□□□.□□□□ -LD2LD2	Profile □□□×□□□.□□□□ Connector position, left: CFIM (additional description) Connector position, right: CFIM	③ 1.11.□□□□□□.□□□□ -L00ND2	Profile □□□×□□□.□□□□ Connector position, right: CFIM (additional description)	④ 1.11.□□□□□□.□□□□ -ND2ND2	Profile □□□×□□□.□□□□ Connector position, left: CFIM (additional description) Connector position, right: CFIM
Article-No..	Description											
① 1.11.□□□□□□.□□□□ -L00LD2	Profile □□□×□□□.□□□□ Connector position, right: CFIM (additional description)											
② 1.11.□□□□□□.□□□□ -LD2LD2	Profile □□□×□□□.□□□□ Connector position, left: CFIM (additional description) Connector position, right: CFIM											
③ 1.11.□□□□□□.□□□□ -L00ND2	Profile □□□×□□□.□□□□ Connector position, right: CFIM (additional description)											
④ 1.11.□□□□□□.□□□□ -ND2ND2	Profile □□□×□□□.□□□□ Connector position, left: CFIM (additional description) Connector position, right: CFIM											

V = connector bore, G = thread, Q = cross bore

Extruded profile
as per DIN EN 12020
(fine)
(Replacement for DIN 17615)

Aluminium alloy Al Mg Si 0.5 F25
Material Nr. 3.3206.72 (low temp. annealed)
Specific weight: 2.7 kg/dm³

Functional length: 6,000 mm
Delivery length: 6,060 mm + 10 mm

Mechanical data

(Values given in the direction of the press flow)

Tensile strength R_m: min. 250 N/mm²
Elongation 0.2: min. 200 N/mm²
Pressure tension σ_{zul} : 95 N/mm²
Stress point A₅: min. 10 %
Stress point A₁₀: min. 8 %
E-Module: approx. 70,000 N/mm²
Brinell hardness: approx. 75 HB 2.5/187.5
Co-efficient of elongation: 23.8 x 10⁻⁶/K

Surface as per DIN 17611:
E6/EV1 - dull finish and anodised colours
Coat thickness approx. 10 µm
Coat hardness 250-350 HV
Special colours upon request.
The surface area - subject to technical procedure
- can show optical changes.

Profile tolerance

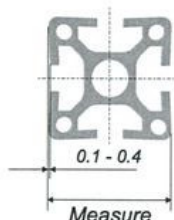
(Excerpt from DIN EN 12020-2)

Nominal dimensions:

The dimension deviation depends on the precision with which the tooling is manufactured, the tooling wear and the variation during the extrusion process. For one manufacturing setup the variation within one profile is 0.01 mm.

Profile tolerance		
Dim. range in mm from to		Tolerance in mm
-	10	± 0.15
10	15	± 0.20
15	30	± 0.25
30	45	± 0.30
45	60	± 0.40
60	90	± 0.45
90	120	± 0.60
120	150	± 0.80
150	180	± 1.00
180	240	± 1.20
240	300	± 1.50

Flatness of profile surfaces

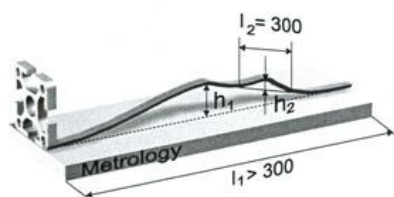


In order to optimize the connection stability, all profile surfaces are designed and manufactured with concave surfaces. This assures that the assembled profiles contact on the outer edges only (line of contact).

When tightening the connectors the slot flanks will be drawn to the mounting profile within the elastic range and will keep the connectors under tension.

Straightness tolerance

of the edge in longitudinal direction



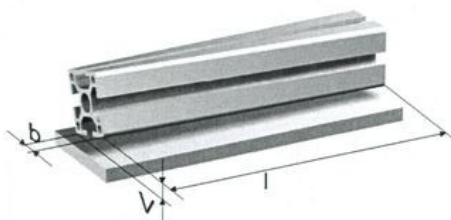
At a certain length l₁ the given tolerance h₁ is not to be exceeded.

For each incremental length of l₂ = 300 mm the deviation h₂ is not to exceed 0.3 mm.

Straightness tolerance		
Length l ₁ in m from to		Tolerance h ₁ in mm
-	1	0.7
1	2	1.3
2	3	1.8
3	4	2.2
4	5	2.6
5	6	3.0

Flatness tolerance

(Twist tolerance)



Width b in mm		Flatness tolerance					
Dim. range from to		at length l in m					
		to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6
-	25	1.0	1.5	1.5	2.0	2.0	2.0
25	50	1.0	1.2	1.5	1.8	2.0	2.0
50	75	1.0	1.2	1.2	1.5	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	300	1.8	2.5	3.0	3.5	4.0	4.5

Parallelism tolerance (Angular tolerance)



The parallelism tolerance ω (angular tolerance) refers to unequal sides to the shorter side of the angle, i.e. it is measured from the longer side.

Parallelism tolerance		
Width b in mm from	to	max. size tolerance ω in mm
-	30	0.3
30	50	0.4
50	80	0.5
80	100	0.6
100	120	0.7
120	140	0.8
140	160	0.9
160	180	1.0
180	200	1.2
200	240	1.5

Bending strength

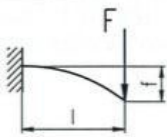
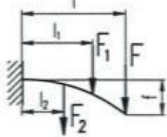
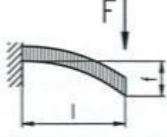
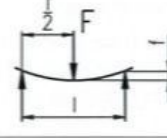
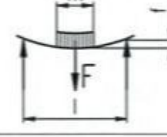
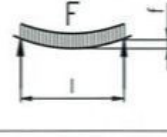
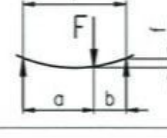
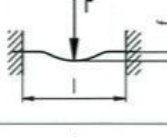
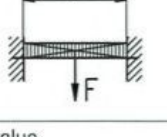
For the computation of deflection use formulas on this page.

For the computation of deflection by the profiles own weight, apply "Type of load" 3, 6 or 9.

f = Deflection in mm
 F = Type of load in N
 l = Profile length in mm
 J ¹⁾ = Moment of inertia in mm⁴
 E = Module of elasticity in N/mm²
 E_{AL} = 70,000 N/mm²

1) Comments

- Catalogue data in cm⁴
(Note factor of conversion 10⁴ !)
- The moments of inertia of a certain profile are listed on the respective profile page (➔ 1.09, 1.10, 1.11) and in the tables 1.1D

Type of load		
1		$f = \frac{F \cdot l^3}{3E \cdot J}$
2		$f = \frac{F \cdot l^3 + F_1 \cdot l_1^2 \cdot l + F_2 \cdot l_2^2 \cdot l}{3E \cdot J}$
3		$f = \frac{F \cdot l^3}{8E \cdot J}$
4		$f = \frac{F \cdot l^3}{48E \cdot J}$
5		$f = \frac{F \cdot l^3}{\left(48 + \frac{29m}{l}\right) \cdot E \cdot J}$
6		$f = \frac{5F \cdot l^3}{384E \cdot J}$
7		$f = \frac{F \cdot a^2 \cdot b^2}{3E \cdot J \cdot l}$
8		$f = \frac{F \cdot l^3}{192E \cdot J} \quad 2)$
9		$f = \frac{F \cdot l^3}{384E \cdot J}$

2) approximate value

Approximate determination of deflection

To determine the approximation of deflection, use the diagram on this page.

Profile length l in mm

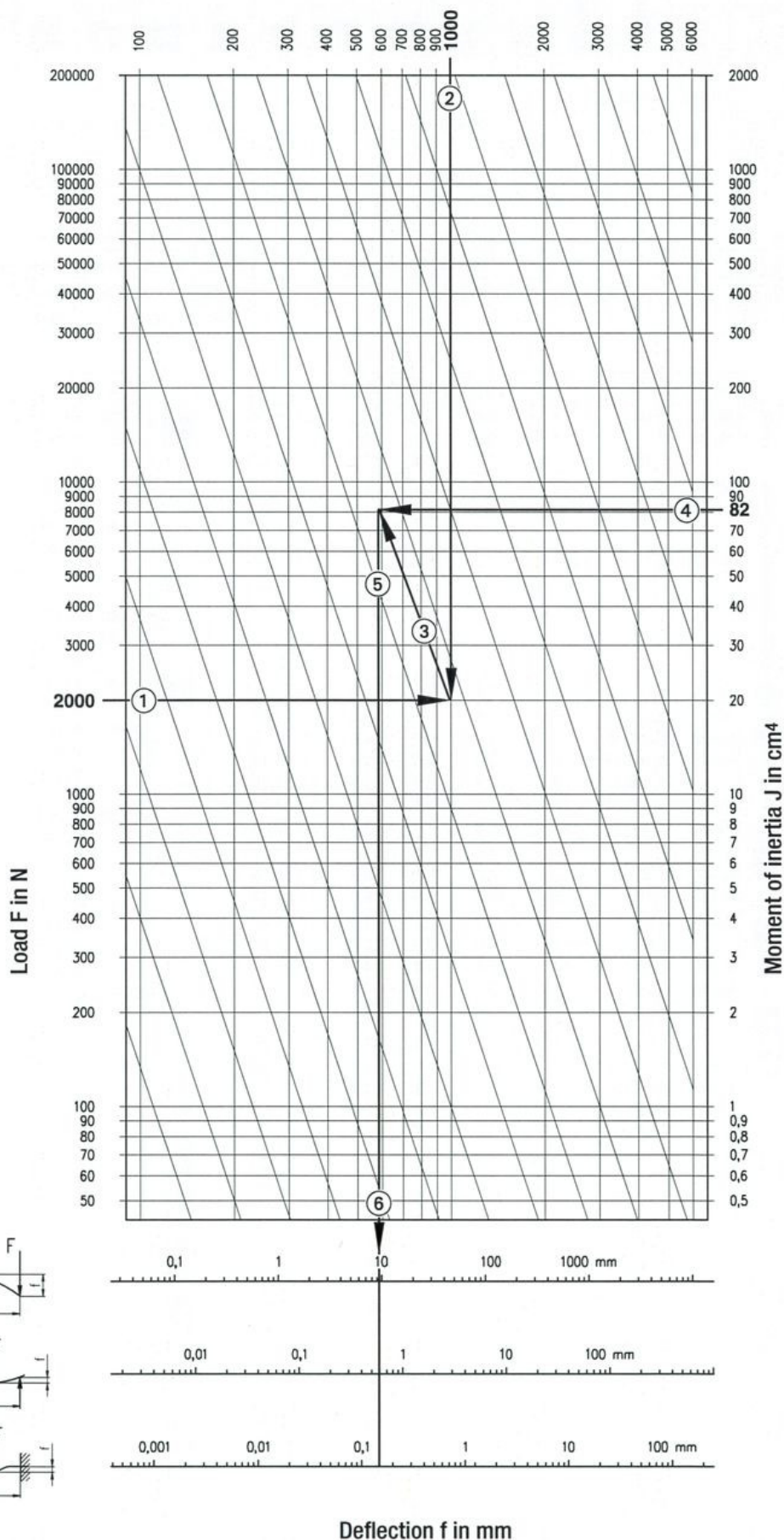
Determination of deflection

1. Type of load F in N
2. Profile length l in mm
3. Move cross point on the diagonal
4. Moment of inertia of the selected profile J in cm^4
5. Cross point with the diagonal to be vertically extended to the bottom
6. Deflection f for the specific "Type of load" in mm

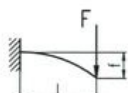
Example

- ① $F = 2,000 \text{ N}$
- ② $l = 1,000 \text{ mm}$
- ③ Move cross point on the diagonal
- ④ $J = 82.0 \text{ cm}^4$ for profile $40 \times 80, 6E$
- ⑤ Cross point with the diagonal to be vertically extended to the bottom
- ⑥ Deflection for the specific "Type of load" in mm:

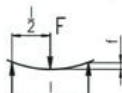
Type of load 1: $f = 9.5 \text{ mm}$
 Type of load 4: $f = 0.6 \text{ mm}$
 Type of load 8: $f = 0.15 \text{ mm}$



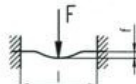
Type of load 1



Type of load 4



Type of load 8



Design	PG slot																	
16 F	16×40																	
E	16×40	16×80	16×160															
20 H					20×20				20×20	20×20	20×20	20×20						
F				20×10										20×30	20×30	20×30		
30 F					30×30	30×30	30×30	30×30	30×30	30×30	30×30	30×30						30×50
E4																		
40 E3					40×40	40×40	40×40		40×40	40×40	40×40	40×40						
45 E4					45×45	45×45	45×45		45×45	45×45	45×45	45×45	45×60					
50 E4					50×50				50×50		50×50	50×50						
60 E4									60×60	60×60		60×60					60×90	

	Profile	lx ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	
	16×40, 1F, LP	4.4	0.8	2.2	0.8	0.87	1.08
	16×40, 1E, LP	4.3	0.8	2.2	0.8	0.75	1.07
	1E, SP	7.2	1.1	3.6	1.1	1.14	1.07
	16×80, 2E, LP	30.7	1.6	7.7	1.6	1.49	1.07
	2E, SP	48.3	2.2	12.0	2.2	2.11	1.07
	16×160, 4E, LP	221.0	3.2	27.5	3.2	2.6	1.07
	20×10, 1F, LP	0.1	0.6	0.2	0.5	0.35	1.11
	20×20, 2H, soft, SP	0.6	0.6	0.6	0.6	0.52	1.09
	30×30, 2F, soft, SP	2.7	2.7	1.6	1.6	0.9	1.12
	40×40, 2E, soft, LP	6.4	6.4	3.8	3.8	1.2	1.16
	2E, soft, L	6.4	6.4	3.8	3.8	1.2	1.32
	45×45, 2E, soft, LP	11.4	11.4	5.1	5.1	1.6	1.24
	50×50, 2E, soft, S	18.8	18.8	7.5	7.5	2.3	1.36
	30×30, 0F, SP	4.4	4.4	2.3	2.3	1.3	1.12
	40×40, 0E, SP	12.6	12.6	6.3	6.3	2.0	1.16
	45×45, 0E, LP	15.5	15.5	6.9	6.9	2.2	1.24
	30×30, 1F, LP	3.1	3.1	2.1	2.1	0.9	1.12
	1F, SP	4.3	4.0	2.9	2.6	1.2	1.12
	40×40, 1E, LP	10.1	9.8	5.0	4.8	1.5	1.16
	45×45, 1E, LP	14.7	15.5	6.5	6.8	2.1	1.24
	30×30, 2F, cor., SP	3.7	3.2	2.4	2.1	1.1	1.12
	2F, cor., S	3.7	3.2	2.4	2.4	1.1	1.30
	20×20, 2H, cor., SP	1.0	1.0	0.9	0.9	0.68	1.09
	30×30, 2F, cor., LP	3.2	3.2	2.1	2.1	0.9	1.12
	2F, cor., SBP	3.7	3.7	2.4	2.4	1.1	1.12
	2F, cor., L	3.2	3.2	2.1	2.1	0.9	1.30
	2F, cor., SB	3.7	3.7	2.4	2.4	1.1	1.30
	40×40, 2E, cor., LP	9.9	9.9	4.9	4.9	1.5	1.16
	2E, cor., SP	12.0	12.0	6.0	6.0	2.0	1.16
	2E, cor., L	8.0	8.0	4.0	4.0	1.3	1.32
	2E, cor., S	12.3	12.3	6.1	6.1	2.0	1.32
	45×45, 2E, cor., LP	14.7	14.7	6.6	6.6	2.0	1.24
	50×50, 2E, cor., S	27.4	27.4	10.9	10.9	3.0	1.36
	60×60, 2E, cor., SP	57.2	57.2	19.1	19.1	4.3	1.28
	20×20, 2H, LP	1.0	0.8	1.0	0.8	0.58	1.09
	30×30, 2F, LP	3.2	3.2	2.1	2.1	0.9	1.13
	2F, SP	3.6	3.9	2.4	2.6	1.1	1.13
	40×40, 2E, LP	8.2	7.5	4.1	3.8	1.3	1.17
	2E, L	8.2	7.5	4.1	3.8	1.3	1.32
	45×45, 2E, LP	14.0	15.5	6.2	6.9	2.0	1.25
	60×60, 2E, LP	35.1	37.7	11.7	12.5	2.9	1.28
	2E, SP	55.9	58.5	18.6	19.5	4.3	1.28

	Profile	lx ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	
	20×20, 3H, SP	0.9	0.9	0.9	0.9	0.65	1.09
	30×30, 3F, LP	3.0	3.0	2.0	2.0	0.9	1.13
	3F, SP	3.5	3.7	2.4	2.4	1.1	1.13
	3F, L	3.3	3.2	2.2	2.2	0.9	1.30
	3F, S	3.5	3.7	2.4	2.4	1.1	1.30
	40×40, 3E, LP	9.5	9.9	4.7	4.9	1.5	1.17
	3E, SP	12.0	11.4	6.0	5.6	2.0	1.17
	3E, L	8.3	8.8	4.1	4.4	1.4	1.32
	3E, S	12.0	11.3	6.0	5.6	2.0	1.32
	45×45, 3E, LP	14.0	14.7	6.2	6.5	2.1	1.25
	50×50, 3E, L	18.4	16.0	7.3	5.8	1.9	1.36
	3E, S	27.3	28.2	11.1	11.1	3.1	1.36
	20×20, 4H, LP	0.8	0.8	0.8	0.8	0.53	1.10
	4H, SP	0.9	0.9	0.9	0.9	0.62	1.10
	30×30, 4F, LP	3.3	3.3	2.2	2.2	0.9	1.13
	4F, SP	3.5	3.5	2.4	2.4	1.1	1.13
	4F, L	3.3	3.3	2.2	2.2	0.9	1.31
	4F, S	3.5	3.5	2.4	2.4	1.1	1.31
	40×40, 4E, LP	9.6	9.6	4.7	4.7	1.5	1.17
	4E, SP	12.0	12.0	6.0	6.0	2.0	1.17
	4E, L	9.9	9.9	4.9	4.9	1.5	1.33
	4E, S	12.0	12.0	6.0	6.0	2.0	1.33
	45×45, 4E, LP	13.5	13.5	6.0	6.0	1.9	1.25
	4E, SP	15.5	15.5	6.9	6.9	2.1	1.25
	4E, L	13.5	13.5	6.0	6.0	1.9	1.35
	4E, S	16.8	16.8	7.4	7.4	2.3	1.35
	50×50, 4E, SP	26.6	26.6	10.6	10.6	3.0	1.27
	4E, L	19.2	19.2	7.7	7.7	2.2	1.37
	4E, S	27.3	27.3	11.0	11.0	3.1	1.37
	60×60, 4E, LP	35.5	35.5	11.7	11.7	2.7	1.28
	4E, SP	56.0	56.0	18.7	18.7	4.2	1.28
	4E, L	35.5	35.5	11.7	11.7	2.7	1.38
	4E, S	56.0	56.0	18.7	18.7	4.2	1.38
	45×60, 4E, LP	27.6	16.3	9.1	8.2	2.3	1.25
	4E, L	26.5	16.0	9.0	7.2	2.3	1.36
	20×30, 1F, LP	2.2	1.4	1.5	1.4	0.7	1.11
	20×30, 1F, LBP	3.9	1.4	2.6	1.3	1.2	1.11
	20×30, 2F, LP	2.2	1.5	1.5	1.5	0.74	1.11
	2F, SP	2.6	1.9	1.7	1.7	1.0	1.11
	60×90, 6E, L	125.8	54.3	27.9	18.1	3.9	1.38
	6E, S	193.0	83.0	43.0	27.5	6.0	1.38
	30×50, 4F, LP	10.6	4.7	4.6	3.6	1.3	1.13
	4F, SP	16.3	6.4	6.5	4.3	1.9	1.13
	4F, L	10.5	4.5	4.5	3.5	1.3	1.31
	4F, S	16.1	6.3	6.4	4.2	1.9	1.31

¹⁾ lx, ly = moment of inertia in cm⁴
²⁾ Wx, Wy = moment of resistance in cm³
³⁾ G = weight in kg/m

Design	PG slot																		
16 F																			
E																			
20 H			20x40				20x40												
F																			
30 F	30x60						30x60				30x100	30x100			30x150				
E4										30x100						30x150			
40 E3	40x80	40x80		40x80	40x80	40x80	40x80		40x120				40x160	40x160					
45 E4	45x90						45x90												
50 E4							50x100	50x100	50x150										
60 E4																			

	Profile	lx 1)	ly 1)	Wx 2)	Wy 2)	G 3)	
	30x60, 0F, SP	29.0	7.8	9.6	5.2	2.2	1.13
	40x80, 0E, LP	66.8	18.4	16.7	9.2	2.7	1.17
	45x90, 0E, LP	107.5	30.4	23.9	13.5	3.6	1.25
	40x80, 3E, cor., LP	66.9	18.1	16.7	9.0	2.6	1.17
	20x40, 4H, SP	7.0	2.0	3.5	2.0	1.3	1.10
	40x80, 4E, LP	65.8	18.1	16.5	9.0	2.6	1.18
	4E, L	63.2	17.8	15.7	8.9	2.6	1.33
	40x80, 4E, LBP	67.7	16.3	16.9	8.7	2.7	1.18
	40x80, 5E, LP	72.2	18.1	18.0	9.0	2.8	1.18
	20x40, 6H, LP	5.3	1.4	2.6	1.4	0.9	1.10
	6H, SP	6.4	1.7	3.2	1.7	1.3	1.10
	30x60, 6F, LP	22.1	5.9	7.4	3.9	1.6	1.13
	6F, SP	25.0	7.0	8.3	4.7	2.1	1.13
	6F, L	21.9	5.8	7.4	3.8	1.6	1.31
	6F, S	25.0	7.0	8.3	4.7	2.1	1.31
	40x80, 6E, LP	65.4	17.5	16.4	8.8	2.5	1.18
	6E, SP	82.0	23.4	20.5	11.7	3.8	1.18
	6E, L	62.7	17.0	15.6	8.5	2.6	1.33
	6E, S	82.0	23.4	20.5	11.7	3.8	1.33
	45x90, 6E, LP	98.0	27.5	21.8	12.2	3.3	1.26
	6E, SP	126.0	34.0	28.0	15.0	4.4	1.26
	6E, L	98.0	27.5	21.8	12.2	3.3	1.35
	6E, S	126.0	34.0	28.0	15.0	4.4	1.35
	50x100, 6E, SP	195.7	55.4	39.2	22.3	5.7	1.27
	6E, L	138.0	37.0	27.5	14.5	3.5	1.37
	6E, S	202.0	57.2	40.4	22.8	5.9	1.37
	50x100, 8E, L	137.0	40.0	27.5	16.0	4.0	1.37
	8E, S	200.0	53.3	39.9	21.3	6.0	1.37
	40x120, 8E, LP	200.4	25.4	33.4	12.7	3.8	1.19
	8E, L	198.5	25.2	34.2	12.6	3.6	1.33
	50x150, 8E, S	628.0	83.0	83.0	33.0	8.1	1.37
	30x100, 3F, SP	120.4	12.8	24.0	8.5	3.6	1.14

	Profile	lx 1)	ly 1)	Wx 2)	Wy 2)	G 3)	
	30x100, 8F, SP	115.0	11.6	22.9	7.7	3.4	1.14
	30x100, 10F, SP	127.0	11.9	25.4	7.9	3.6	1.14
	40x160, 6E, LP	450.4	36.3	56.3	18.1	5.0	1.19
	40x160, 10E, LP	433.5	33.1	54.2	16.5	4.7	1.19
	30x150, 8F, SP	340.0	16.0	45.0	11.0	4.1	1.15
	30x150, 8E, SP	481.0	25.1	64.1	16.7	7.9	1.15

1) lx, ly = moment of inertia in cm⁴

2) Wx, Wy = moment of resistance in cm³

3) G = weight in kg/m

Design	PG slot													
16	F													
	E													
20	H													
	F													
30	F					60×60		60×60						
	E4													
40	E3	80×80	80×80	80×80	80×80	80×80	80×80	80×80	80×120	80×160	80×160	80×160	120×120	120×120
45	E4					90×90	90×90							
50	E4					100×100	100×100					100×200		
60	E4													

Profile	lx ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	
80×80, 0E, LP	123.3	123.3	30.9	30.9	4.5	1.20
80×80, 4E, cor., LP	128.0	128.0	32.0	32.0	4.5	1.20
80×80, 6E, LP	121.3	116.0	30.3	29.0	4.2	1.20
80×80, 7E, SP	162.8	149.7	40.7	37.5	6.2	1.20
60×60, 8E, L	38.7	38.7	12.9	12.9	2.6	1.31
80×80, 8E, LP	114.0	114.0	28.4	28.4	4.1	1.20
8E, SP	166.0	166.0	41.4	41.4	5.9	1.20
8E, L	111.0	111.0	28.0	28.0	4.1	1.34
8E, S	166.0	166.0	41.4	41.4	5.9	1.34
90×90, 8E, LP	190.5	190.5	42.3	42.3	5.6	1.26
100×100, 8E, SP	387.2	387.2	77.5	77.5	9.6	1.27
8E, S	411.0	411.0	82.0	82.0	9.7	1.37
80×80, 8E, LBP	118.7	118.7	29.9	29.9	4.9	1.21
8E, LB	110.2	110.2	27.6	27.6	4.5	1.34
90×90, 8E, SP	282.0	282.0	63.0	63.0	9.5	1.26
100×100, 8E, L	254.1	254.1	45.4	45.4	6.2	1.37
60×60, 8E, angle, S	35.2	35.2	9.9	9.9	2.8	1.31
80×80, 8E, angle, SP	120.0	120.0	23.8	23.8	5.4	1.21
8E, angle, S	120.0	120.0	23.8	23.8	5.4	1.34
80×120, 10E, SP	449.9	217.8	72.6	54.4	8.6	1.21
80×160, 8E, SP	944.0	183.0	118.0	45.8	7.9	1.21
80×160, 8E, LP	828.0	259.0	104.0	65.0	8.6	1.21
80×160, 12E, LP	787.6	231.9	98.3	58.2	8.2	1.21
12E, SP	883.0	269.0	110.0	67.3	9.4	1.21
12E, L	794.0	233.0	99.3	58.3	8.8	1.34
100×200, 12E, SP	2,450.0	760.0	250.0	152.0	17.2	1.27

Profile	lx ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	
120×120, 3E, LP	538.3	275.2	89.8	45.8	6.7	1.48
120×120, 12E, SP	624.0	624.0	104.0	104.0	10.6	1.21

¹⁾ lx, ly = moment of inertia in cm⁴
²⁾ Wx, Wy = moment of resistance in cm³
³⁾ G = weight in kg/m

Design															
PG slot															
16	F														
	E														
20	H														
	F														
30	F														
	E4										30 octag.				
40	F			40×30°											
	E3	40×40	80×80		40×45°	40×60°	40×90°				40 octag.				
45	E4														
50	E4							48 round	48 round	48 round					
60	E4														

	Profile	lx 1)	ly 1)	Wx 2)	Wy 2)	G 3)	
	40×40, 2E, 45°, LP	7.3	7.3	3.9	3.9	1.4	1.23
	80×80, 7E, 45°, LP	99.3	99.3	24.8	24.8	4.0	1.23
	40, round 30°, 2F, LP	6.0	4.8	3.0	2.4	1.2	1.22
	40, round 45°, 2E, LP	14.5	8.0	4.9	3.7	1.6	1.22
	40, round 60°, 2E, LP	30.0	10.5	7.6	4.6	1.9	1.22

	Profile	lx 1)	ly 1)	Wx 2)	Wy 2)	G 3)	
	40, round 90°, 2E, LP	89.0	89.0	16.0	16.0	3.0	1.22
	48, round, 1E, SP	12.5	12.9	4.9	5.4	1.8	1.39
	48, round, 2E, cor., SP	12.0	12.0	5.0	5.0	2.0	1.39
	48, round, 2E, SP	12.5	13.5	5.1	5.9	2.0	1.39
	30, octag., 8F, SP	84.0	84.0	21.0	21.0	3.9	1.39
	40, octag., 8E, SP	176.6	176.6	35.3	35.3	5.8	1.39

Design															
PG slot															
16	F														
	E														
20	H														
	F														
30	F	30×30	30×30	30×30	30×30			30×45	30×50	30×50	30×60				
	E4														
40	E3		40×40	40×40	40×40		40×40	40×60		40×60	40×80	60×80	60×80		
45	E4														
50	E4			50×50		50×50									
60	E4														

	Profile	lx 1)	ly 1)	Wx 2)	Wy 2)	G 3)	
	30×30, 0F, P, LP	3.8	3.8	2.4	2.4	1.10	1.41
	30×30, 2F, P, LP 5	4.3	3.3	2.8	2.2	1.20	1.41
	30×30, 2F, P, LP 6	3.6	2.8	2.4	1.9	1.00	1.41
	30×30, 2F, WG, LP 7.5	2.6	3.2	1.7	2.1	0.86	1.44
	40×40, 2E, WG, LP 7.5	7.5	8.2	3.8	4.1	1.35	1.45
	30×30, 2F, c., P, LP 4	3.3	3.3	2.2	2.2	1.00	1.41
	40×40, 2E, c., P, LP 4	10.3	10.3	5.2	5.2	1.80	1.42
	50×50, 2E, c., P, LP 4	19.4	19.4	7.6	7.6	2.40	1.43
	30×30, 3F, P, LP 4	3.3	2.8	2.2	1.8	0.90	1.41
	40×40, 3E, P, LP 4	10.2	8.7	5.1	4.3	1.65	1.42
	50×50, 3E, P, LP 4	24.1	21.4	8.0	8.5	2.70	1.43
	40×40, 2E, 45°, SP	12.1	12.1	6.1	6.1	2.10	1.40

	Profile	lx 1)	ly 1)	Wx 2)	Wy 2)	G 3)	
	30×45, 2F, WG, LP 7.5	4.3	7.4	2.9	3.3	1.15	1.44
	40×60, 2E, 1F, WG, LP 7.5	12.2	22.5	6.1	7.5	1.97	1.45
	30×50, 2F, P, LP 5	7.0	14.7	4.7	5.9	1.90	1.41
	30×50, 3F, P, LP 4	5.5	11.8	3.6	4.8	1.5	1.41
	40×60, 3E, P, LP 4	14.8	26.3	7.4	8.8	2.4	1.42
	30×60, 3F, 45°, LP	22.8	6.1	7.6	4.0	1.7	1.40
	40×80, 3E, 45°, LP	101.9	23.5	25.5	11.8	3.8	1.40
	60×80, 5E, P, LP 4	100.4	50.4	25.1	16.8	3.8	1.42
	60×80, 6E, P, LP 4	88.1	52.0	22.1	17.3	3.7	1.42

1) lx, ly = moment of inertia in cm⁴

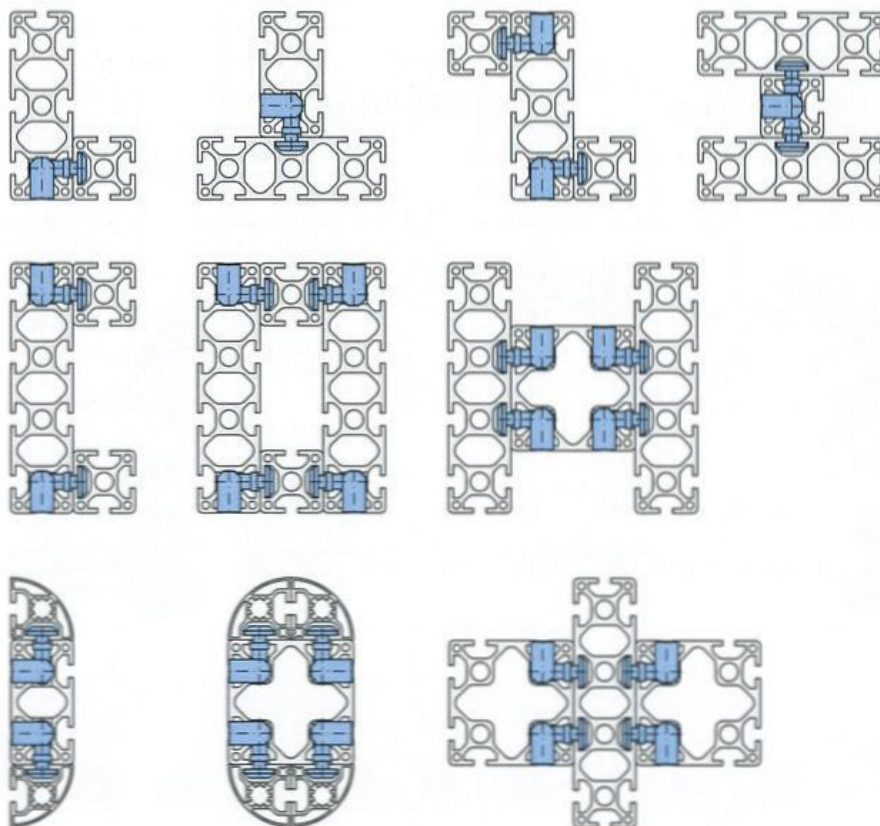
2) Wx, Wy = moment of resistance in cm³

3) G = weight in kg/m

Profile combinations



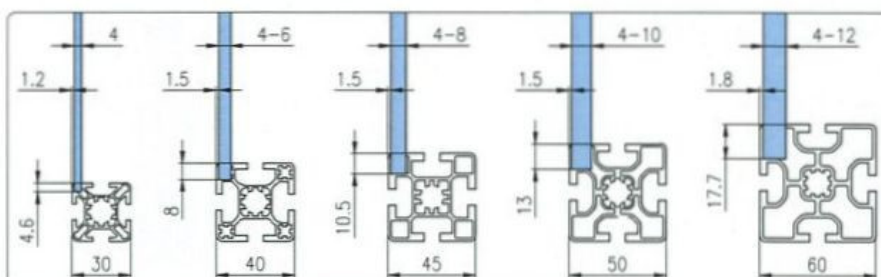
With the MayTec Connector System it is possible to make a multitude of form-matching and stable profile combinations.



Special slits

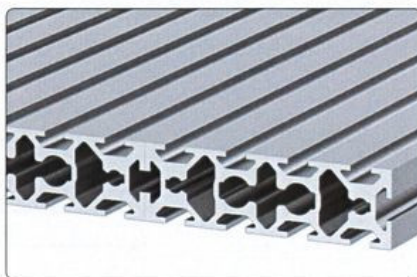


Panel elements can be set in the profile flush to the outer edge for form-matching design. The slits needed for that can be made in nearly all profiles.



Slot plates

F-slot



F-slot, slot distance 25 mm



F-slot, slot distance 50 mm

E-slot

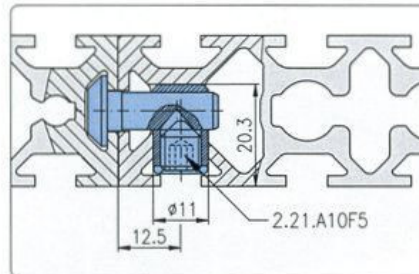
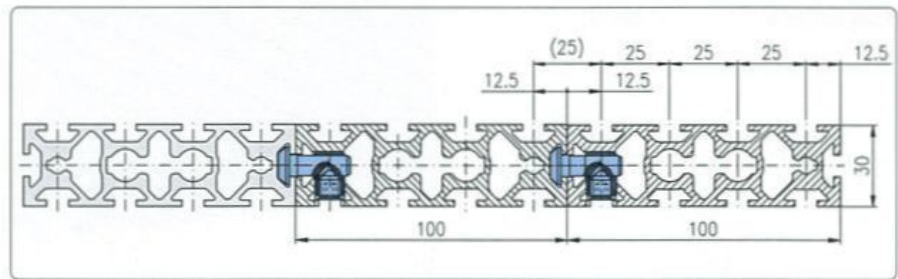


E-slot, slot distance 50 mm

Application

Profiles to construct slot plates of any required size

Slot plates F-slot Slot distance 25 mm

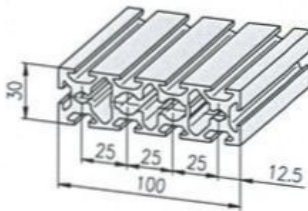


Drill dimensions

Single parts

anchor 2.21.A10F5
cross bushing 2.21.B10

Profile 30×100, 10F, SP



Description

Profile 30×100, 10F, SP

Weight

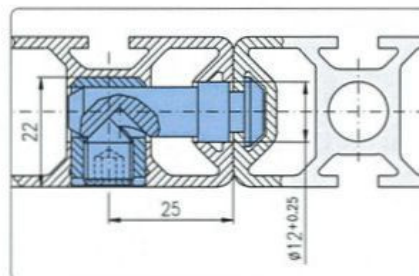
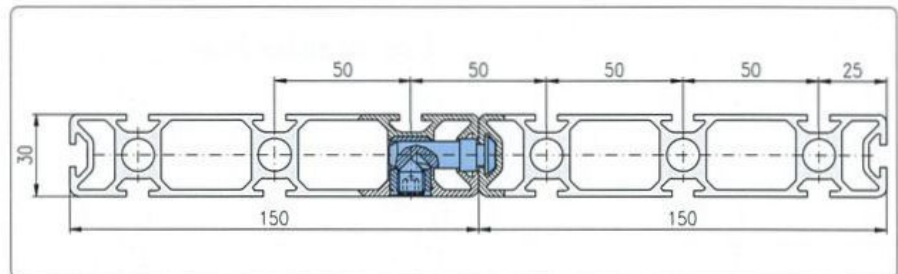
bar 6 m

3.6 kg/m

Article-No.

1.11.030100.104SP.60

Slot plates F-slot Slot distance 50 mm

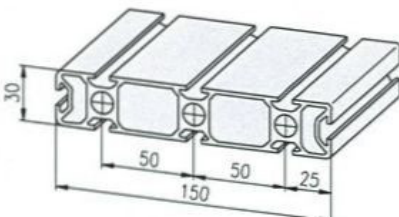


Drill dimensions

Single parts

anchor 1.21.A5F5
cross bushing 1.21.B30

Profile 30×150, 8F, SP



Description

Profile 30×150, 8F, SP

Weight

bar 6 m

4.1 kg/m

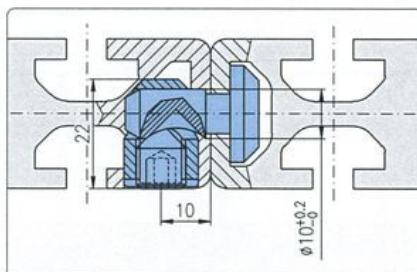
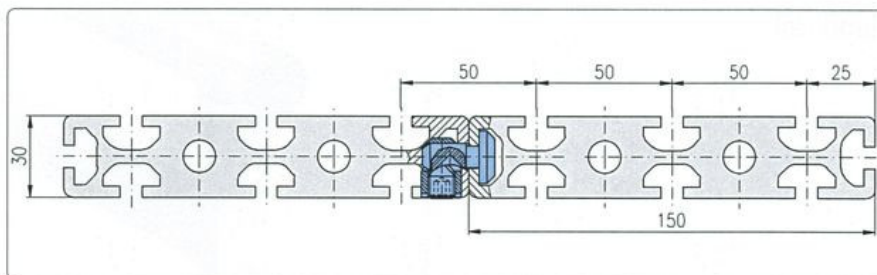
Article-No.

1.11.030150.85SP.60

machining data ➔ Profile machining 1.1A

Slot plates E-slot

Slot distance 50 mm

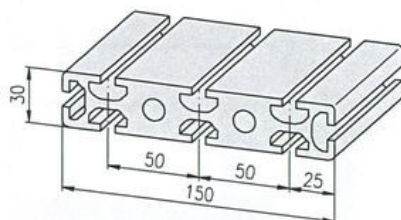


Drill dimensions

Single parts

anchor 1.21.A2E5
cross bushing 1.21.B34

Profile 30×150, 8E, SP



Description

Profile 30×150, 8E, SP

Weight

bar 6 m

7.9 kg/m

Article-No.

1.11.030150.84SP.60

Hand rail



Post: Profile 40×40

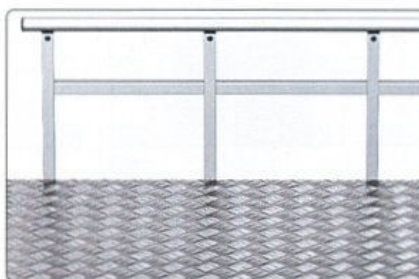
Application

Hand rail for balustrades on stairs and platforms

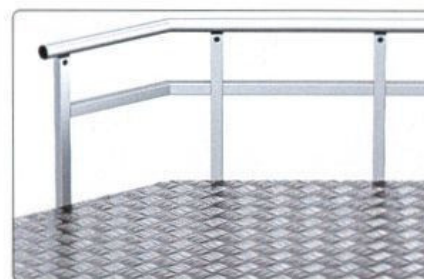
Comments

Angled joints: 0 deg. to 90 deg.

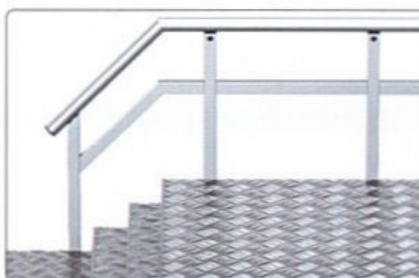
Incline: 0 deg. to 45 deg.



Hand rail straight



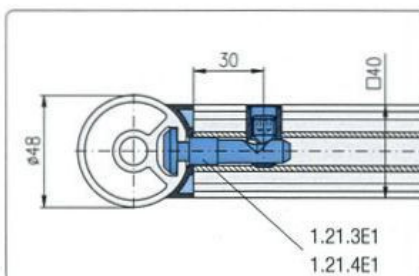
Hand rail angled



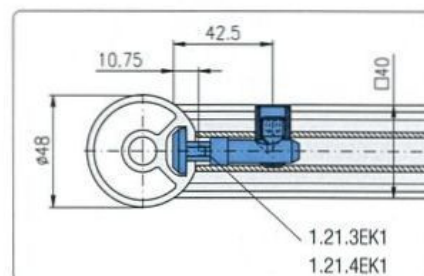
Hand rail tilted



Hand rail tilted and angled



Working dimensions for hand rail straight with radius compensation



Working dimensions for hand rail straight, tilted and/or angled without radius compensation (milled)

Hand rail



Post: Profile Ø48

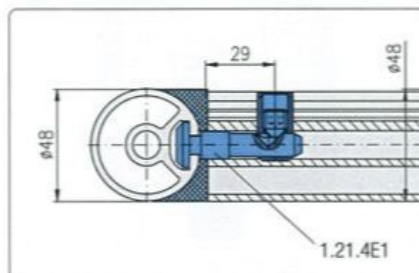
Application

Hand rail for balustrades on stairs and platforms

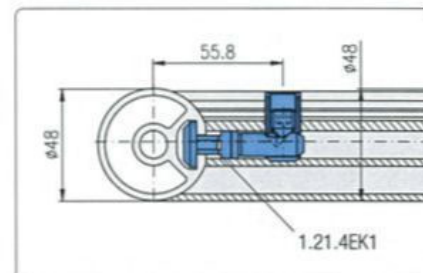
Comments

Angled joints: 0 deg. to 90 deg.

Incline: 0 deg. to 45 deg.



Working dimensions for hand rail straight with radius compensation



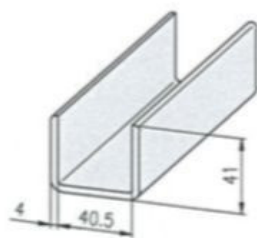
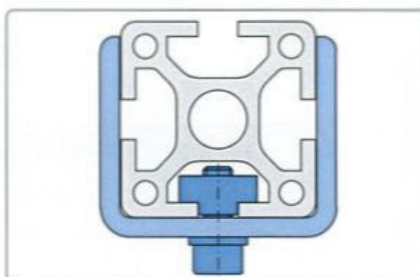
Working dimensions for hand rail straight, tilted and/or angled without radius compensation (milled)

U-Profile 40



Application

For the construction of height adjustable frames on 40×40 and 40×80 profile bases



Description	Weight	Article-No.
U-Profile 40	bar 6 m 1.35 kg/m	1.19.14440.60

Profiles for cable guide

**Application**

For running cables or pneumatic hoses.
All chamber profiles can be delivered with open slots.

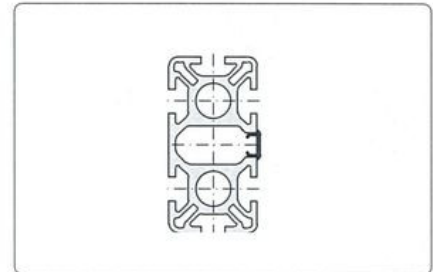
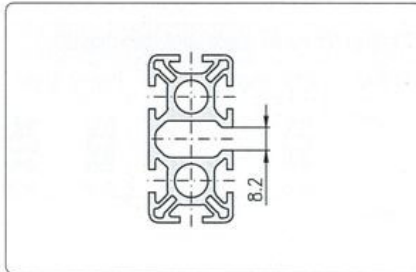
Cover is carried out by cover profiles:

Cover profile PVC 1.41.11□

Cover profile ALU 1.41.121



Application of cross braces to stabilize slotted profiles



16 20 30 40 45 50 60

Comments

Profiles for cable guide see list at profile pre-cut lid

Order details**Description****Article-No.**

Profile □□□□□□,	1.11.□□□□□□.□□
slotted 8 mm, special machining as per drawing	SBZ1

Order example**Order request**

Profile 40×80 mm, 6 E-slots, heavy, 8 mm slotted, length 4.5 m

Order

Profile 40×80, 6E S,
slotted 8 mm, special machining as per drawing

1.11.040080.64S-F00F00/4500
SBZ1

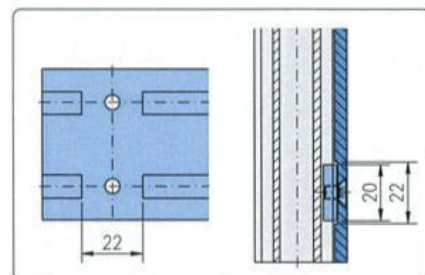
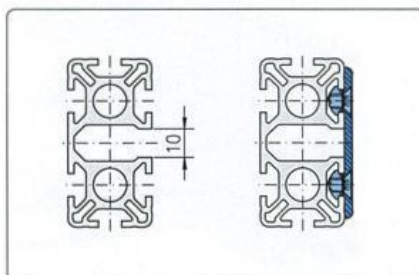
Profiles for cable guide

Slot distance 30



Application

For running cables or pneumatic hoses.
All chamber profiles can be delivered with open slots.



Milled section on the pre-cut lid for fastening with T-Nut in F-slot

Profiles for cable guide, slot distance 30				
Profile	light, plain	heavy, plain	light	heavy
30x60	 6F LP	 0F SP  6F SP	 6F L	 6F S
60x60			 8F L	 8F angle S

Order details

Description

Article-No.

Profile □□□□□□,	1.11.□□□□□□.□□
slotted 10 mm, special machining as per drawing	SBZ2

Order example

Order request

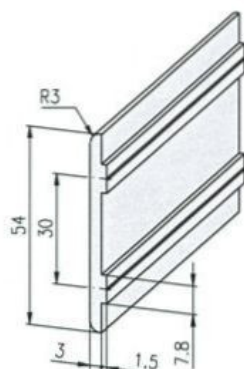
Profile 30x60 mm, 6 F-slots, heavy, 10 mm slotted, length 4.5 m

Order

Profile 30x60, 6F S,
slotted 10 mm, special machining as per drawing

1.11.030060.65S-A00A00/4500
SBZ2

Profile pre-cut lid 30



Single parts

• countersunk screw DIN 7991, M5x8	0.63.D07991.05008
• threaded plate F, M5	1.31.FM5
• T-Nut for subsequent insertion F, M5	1.32.4FM5

Description

Weight

Article-No.

Profile pre-cut lid 30	0.49 kg/m	1.19.110130
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machining data ➡ Profile machining 1.1A

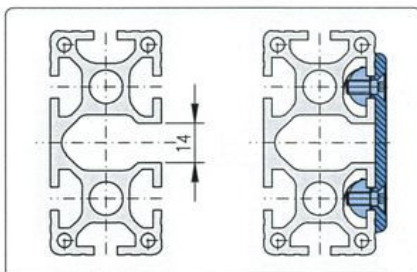
Profiles for cable guide

Slot distance 40



Application

For running cables or pneumatic hoses.
All chamber profiles can be delivered with open slots.



Profiles for cable guide, slot distance 40										
Profile	light, plain						heavy, plain	light	heavy	
40×80										
	0E LP	3E c.LP	4E LP	4E LBP	5E LP	6E LP	6E SP	4E L	6E L	6E S
80×80										
										
	7E 45° LP						8E SP	8E ang. SP		8E angle S
	40×120	40×160	80×160			80×120	80×160	120×120	40×120	80×160
										
	8E LP	6E LP	10E LP	8E LP	12E LP	10E SP	12E SP	12E SP	8E L	12E L

Order details

Description

Profile □□□□□□,
slotted 14 mm, special machining as per drawing

Article-No.

1.11.□□□□□□.□□
SBZ3

Order example

Order request

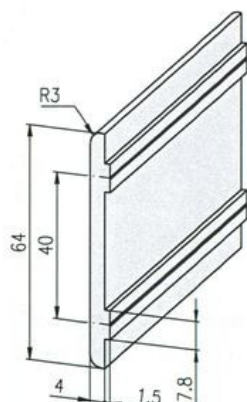
Profile 80×80 mm, 8 E-slots, heavy, 14 mm slotted, length 4.5 m

Order

Profile 80×80, 8E S,
slotted 14 mm, special machining as per drawing

1.11.080080.83S-L00L00/4500
SBZ3

Profile pre-cut lid 40



Single parts

- countersunk screw DIN 7991, M6×14 0.63.D07991.06014
- threaded plate E, M6 1.31.EM6
- T-Nut for subsequent insertion E, M6 1.32.4EM6

Description

Profile pre-cut lid 40

Weight

0.74 kg/m

Article-No.

1.19.110140

machining data ➡ Profile machining 1.1A

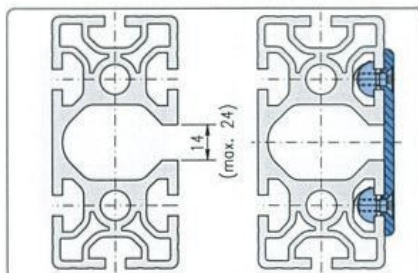
Profiles for cable guide

Slot distance 50



Application

For running cables or pneumatic hoses.
All chamber profiles can be delivered with open slots.



Profiles for cable guide, slot distance 50

heavy, plain						light		heavy		
30×100	30×150	50×100	100×100	100×200		50×100	100×100	50×100	50×150	100×100
										
3F SP	8F SP	8F SP	6E SP	8E SP	12E SP	6E L	8E L	6E S	8E S	8E S

Order details

Description

Bestell-Nr.

Profile □□□□□□,	1.11.□□□□□□.□□
slotted 14 mm, special machining as per drawing	SBZ4

Order example

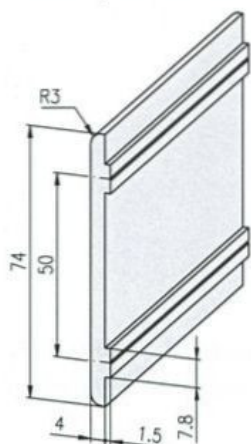
Order request

Profile 50×100 mm, 6 E-slots, heavy, 14 mm slotted, length 4.5 m

Order

Profile 50×100, 6E S,	1.11.050100.65S-F00F00/4500
slotted 14 mm, special machining as per drawing	SBZ4

Profile pre-cut lid 50



Single parts

F-slot

• countersunk screw DIN 7991, M5×8	0.63.D07991.05008
• threaded plate F, M5	1.31.FM5
• T-Nut for subsequent insertion F, M5	1.32.4FM5

E-slot

• countersunk screw DIN 7991, M6×14	0.63.D07991.06014
• threaded plate E, M6	1.31.EM6
• T-Nut for subsequent insertion E, M6	1.32.4EM6

Description

Weight

Article-No.

Profile pre-cut lid 50	0.85 kg/m	1.19.110150
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machining data ➔ Profile machining 1.1A

Curved profiles

For curved profiles the following data is required:

- Profile type (current conditions see table below)
- Position of profile ➡ 1.53
- Radius
- Direction ➡ 1.55
- Necessary accuracy of dimensions for curved profiles and for all required functionality



Position of profile

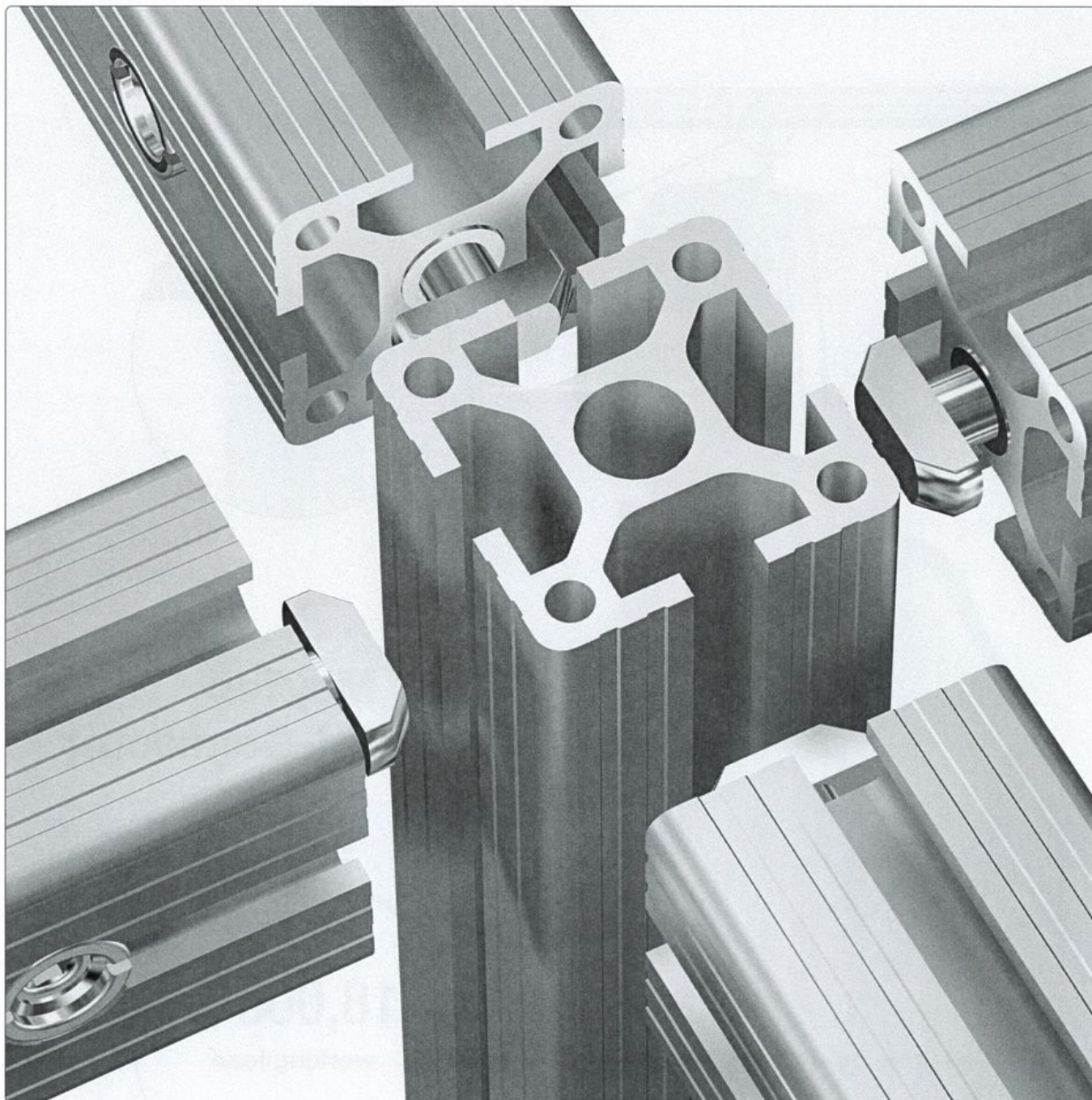


Function 'T- Nut'													Function 'threaded plate'													Function 'connector'																					
position of slot(s)													position of slot(s)													position of slot(s)													position of core hole(s)								
A	B	C	D	E	F	G	H	I	K	L	M		A	B	C	D	E	F	G	H	I	K	L	M		A	B	C	D	E	F	G	H	I	K	L	M	a	b	c	d	e	f	g	h		

The marking of the slots and core holes takes place in accordance with the marking for 'the profile machining' ➡ 1.14

Article-No.	PG	Profile	min. inside-Ø
1.09.016040.14LP	16	16×40, 1E, LP	400
1.09.016040.14SP		16×40, 1E, SP	400
1.10.016040.14LP		16×40, 1F, LP	400
1.10.020020.21SP	20	20×20, 2H, soft, SP	700
1.10.020020.22SP		20×20, 2H, cor., SP	700
1.10.020020.23LP		20×20, 2H, LP	700
1.10.020020.33SP		20×20, 3H, SP	700
1.10.020020.43LP		20×20, 4H, LP	700
1.10.020020.43SP		20×20, 4H, SP	700
1.11.020010.14LP		20×10, 1F, LP	400
1.11.020030.14LP		20×30, 1F, LP	700
1.11.020030.14SBP		20×30, 1F, SP	700
1.11.020030.24LP		20×30, 2F, LP	700
1.11.020030.24SP		20×30, 2F, SP	700
1.11.030030.03SP	30	30×30, 0F, SP	700
1.11.030030.13LP		30×30, 1F, LP	700
1.11.030030.13SP		30×30, 1F, SP	700
1.11.030030.22S		30×30, 2F, cor., S	700
1.11.030030.22SP		30×30, 2F, cor., SP	700
1.11.030030.22SB		30×30, 2F, cor., SB	700
1.11.030030.22SBP		30×30, 2F, cor., SBP	700
1.11.030030.22L		30×30, 2F, cor., L	700
1.11.030030.22LP		30×30, 2F, cor., LP	700
1.11.030030.23LP		30×30, 2F, LP	700
1.11.030030.23SP		30×30, 2F, SP	700
1.11.030030.33L		30×30, 3F, L	700
1.11.030030.33LP		30×30, 3F, LP	700
1.11.030030.33S		30×30, 3F, S	700
1.11.030030.33SP		30×30, 3F, SP	700
1.11.030030.43L		30×30, 4F, L	700
1.11.030030.43LP		30×30, 4F, LP	700
1.11.030030.43S		30×30, 4F, S	700
1.11.030030.43SP		30×30, 4F, SP	700
1.11.030050.44L		30×50, 4F, L	700
1.11.030050.44LP		30×50, 4F, LP	700
1.11.030050.44S		30×50, 4F, S	700
1.11.030050.44SP		30×50, 4F, SP	700

Article-No.	PG	Profile	min. inside-Ø
1.11.030060.04SP	30	30×60, 0F, SP	700
1.11.030060.64L		30×60, 6F, L	700
1.11.030060.64LP		30×60, 6F, LP	700
1.11.030060.65S		30×60, 6F, S	700
1.11.030060.65SP		30×60, 6F, SP	700
1.11.030100.34SP		30×100, 3F, SP	700
1.11.030100.84SP		30×100, 8F, SP	700
1.11.030100.104SP		30×100, 10F, SP	700
1.11.040040.03SP	40	40×40, 0E, LP	700
1.11.040040.13LP		40×40, 1E, LP	700
1.11.040040.22L		40×40, 2E, cor., L	700
1.11.040040.22LP		40×40, 2E, cor., LP	700
1.11.040040.22S		40×40, 2E, cor., S	700
1.11.040040.22SP		40×40, 2E, cor., SP	700
1.11.040040.23L		40×40, 2E, L	700
1.11.040040.23LP		40×40, 2E, LP	700
1.11.040040.33L		40×40, 3E, L	700
1.11.040040.33LP		40×40, 3E, LP	700
1.11.040040.33S		40×40, 3E, S	700
1.11.040040.33SP		40×40, 3E, SP	700
1.11.040040.43L		40×40, 4E, L	700
1.11.040040.43LP		40×40, 4E, LP	700
1.11.040040.43S		40×40, 4E, S	700
1.11.040040.43SP		40×40, 4E, SP	700
1.11.040080.04LP		40×80, 0E, LP	700
1.11.040080.44L		40×80, 4E, L	700
1.11.040080.64L		40×80, 6E, L	700
1.11.040080.64S		40×80, 6E, S	700
1.11.040080.32LP		40×80, 3E, cor., LP	700
1.11.040080.44LP		40×80, 4E, LP	700
1.11.040080.44LBP		40×80, 4E, LBP	700
1.11.040080.54LP		40×80, 5E, LP	700
1.11.040080.64LP		40×80, 6E, LP	700
1.11.040080.64SP		40×80, 6E, SP	700
1.11.048R00.10SP		48, round, 1E, SP	1.500
1.11.048R00.20SP		48, round, 2E, SP	1.500
1.11.048R00.22SP		48, round, 2E, cor., SP	1.500



2

extremely strong

efficient

functional

The proven connection system!

The MayTec quick-connection system allows combination of all MayTec profiles in any way imaginable.

It carries same stability out after all four sides.

The connection allows:

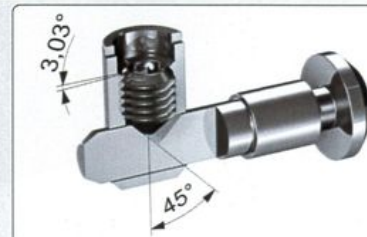
- easy machining
- quick assembly
- innumerable (dis)assemblies

The connection system is:

- complete
- stable
- functional

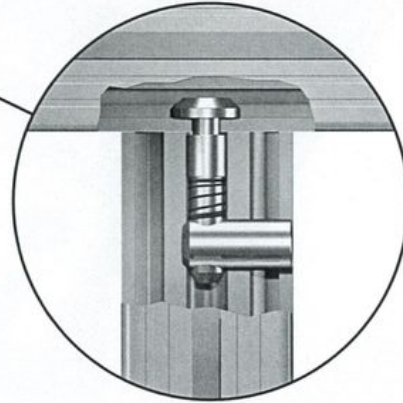
Vibration proof

The different direction angles of lead of thread and clamping cone prevent the loosening of the connection by vibration.





Stability S-Class



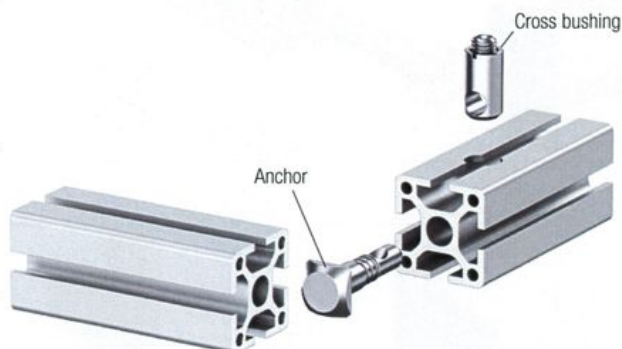
**MayTec
Universal-Connector**

18,000 N
working load

**Vibration
proof**

MayTec connector with square head

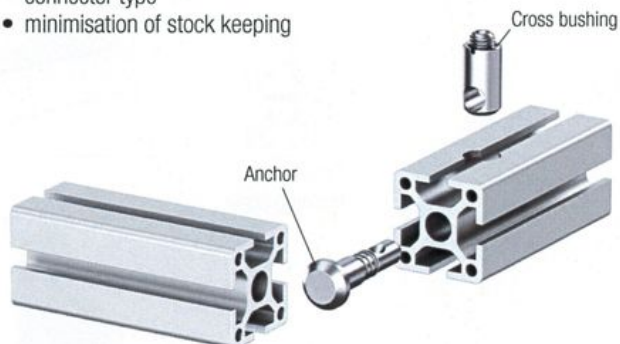
The MayTec connector with square head offers the highest load bearing capacity.



MayTec universal-connector

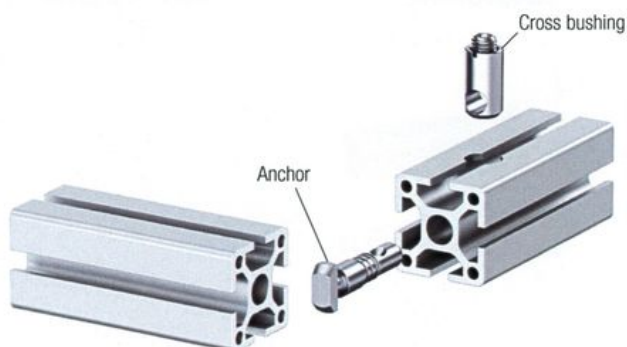
The MayTec universal-connector allows:

- any desired position of profiles
- only one type for 0° and 90° position of cross bushing
- simple determination of the connector type
- minimisation of stock keeping



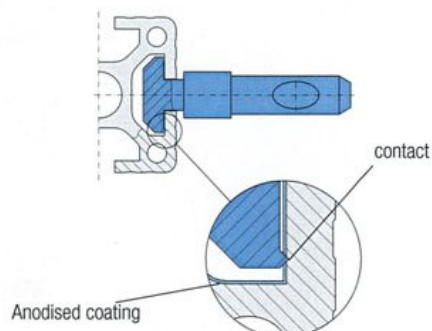
MayTec standard-connector

The MayTec standard-connector allows subsequent front-sided mounting or dismounting in any location.



MayTec ground-connector for potential equalisation

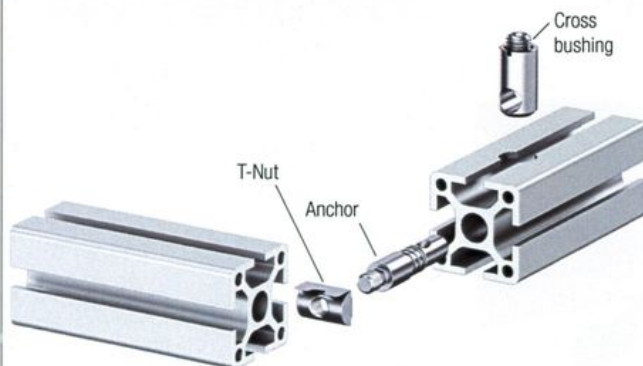
The MayTec ground-connector allows potential equalisation between two profiles. When the connector is tightened, the serration at the rear of the anchor head penetrates the anodised profile coating and thus provides an electrical contact.



Deliverable types ➡ Connectors 1.2A
Ground connections ➡ 1.70

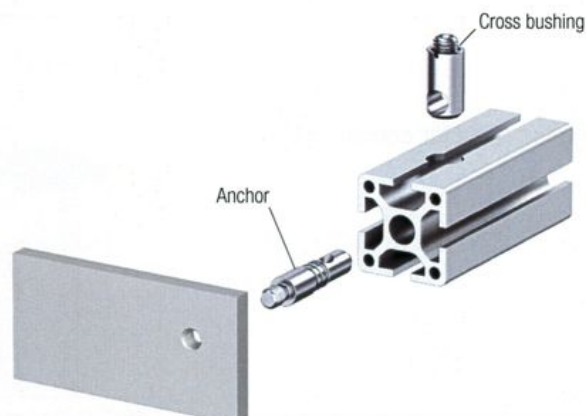
MayTec screw-type connector

The MayTec screw-type connector allows connection to profiles by means of T-Nuts.



MayTec screw-type connector

The MayTec screw-type connector allows connection to threaded holes in plates.

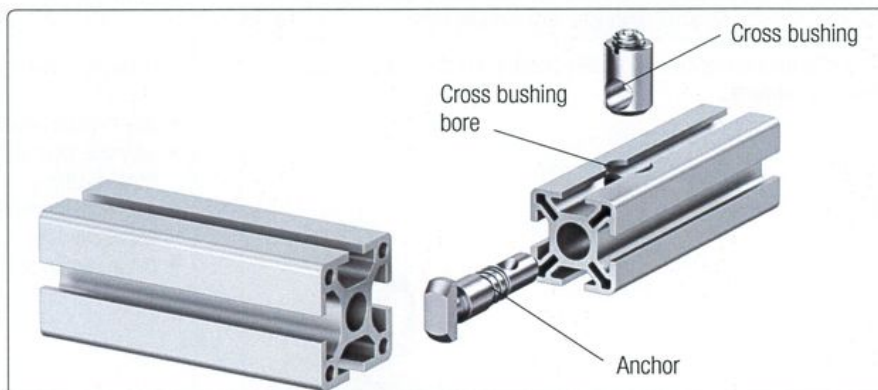


The MayTec Connector System

- mounting of connector in core hole
- with machining



Cross
bushing bore



Standard ➔ 2.12



Screw-type ➔ 2.11, 2.16



Parallel ➔ 2.10, 2.14



Oblique ➔ 2.10, 2.12



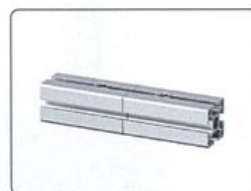
Oblique-cross ➔ 2.13



Extension / Parallel ➔ 2.27



Miter ➔ 2.10, 2.15



Extension ➔ 2.10, 2.14

Anti-twist devices



with retaining plate ➔ 2.45



with T-Nut ➔ 3.07 - 3.10

Clamping lever for connectors



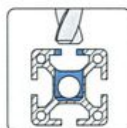
Clamping lever ➔ 2.48

The MayTec Connector System

- mounting of connector in slot
- with machining



Cross
bushing bore

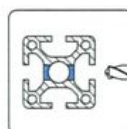


Cross
bushing bore

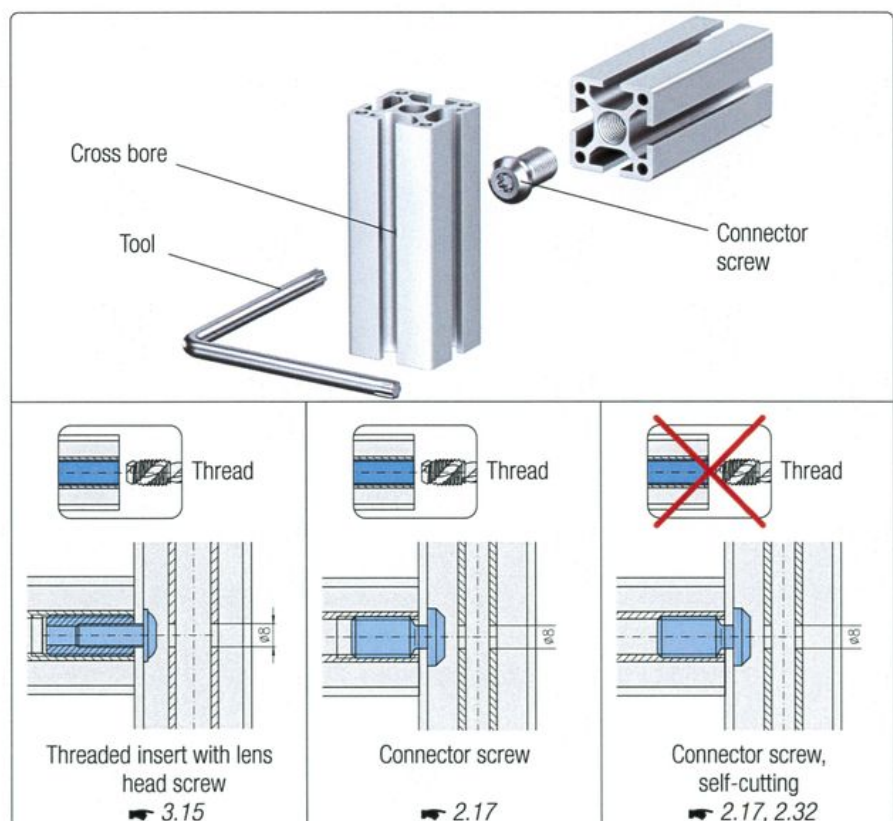


Screw-type connections

- with machining



Cross bore



Angle connections

- without machining



Manufacture a connection

1. Connector selection

➡ 1.2, Connector selection



Example

Connection of two profiles 40×40 with one standard connector

2. Profile machining

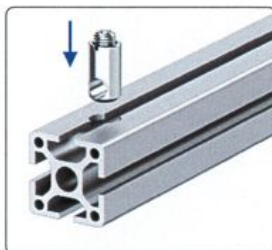
➡ 1.1A, Profile machining

➡ 1.99, Tools

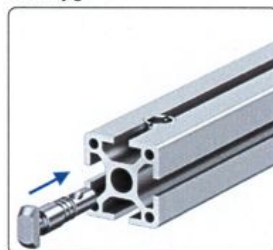


Manufacture the cross bushing bore with the aid of a drill jig

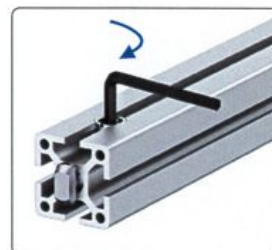
3. Pre-assembly of the connector



Insert the cross bushing

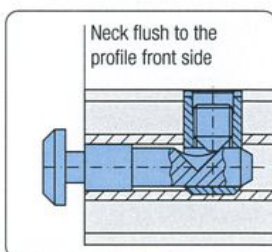


Push in the anchor



Pretension the anchor

⚠ Mounting position



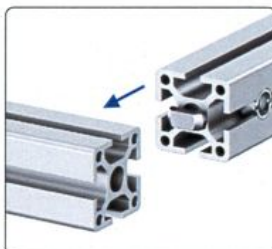
Comments

For the optimal assembly of the profiles the connector is to be installed in such a way that the neck is flush to the profile front side

4. Final assembly

➡ 1.2F, Torque tightening values for connector setscrew

①



Push in sideways

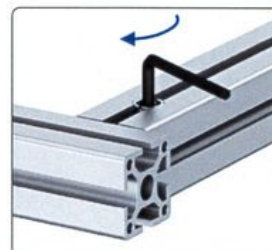


Turn the profile

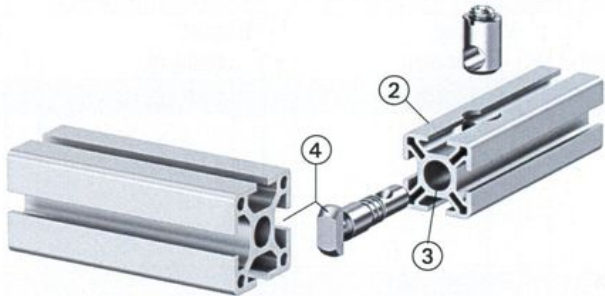
②



Push in front sided



Tighten the setscrew

Connector selection		
		
Procedure	Example	
① Connection	Selection of connector-variant	
② Profile 1	Size of the profile in which the connector should be built into	
③ Core hole	Determination of the core hole Ø	
④ Profile 2	Determination of the connector-head according to slot-variant of the profile on which it will be joined	
⑤ Connector	Determination of connector	
⑥ Number of degrees	Bent anchor: determine the angle (0° - 45°)	
	Standard 30×30 mm Ø12 mm 40×40 mm / E-slot 1.21.3E1	

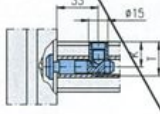
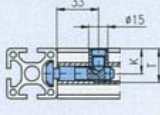
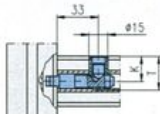
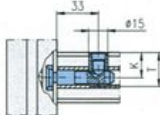
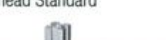
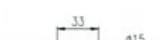
Connector types and materials		
Connector	Article-No.	Technical data
Standard	1.21.2E0	material: steel strength: $\geq 650 \text{ N/mm}^2$ surface: galvanised
Standard, ground	1.21.2E0 E	
Standard VA	1.21.2E0 V	material: stainless steel 1.4305 strength: $490-685 \text{ N/mm}^2$ surface: pickled and passivated

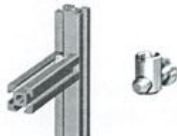
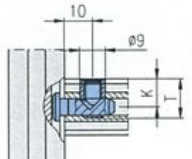
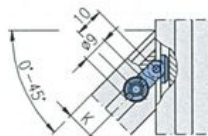
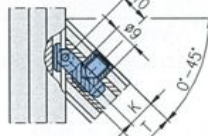
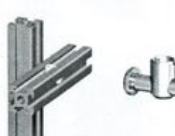
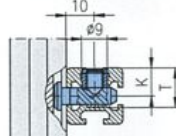
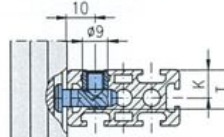
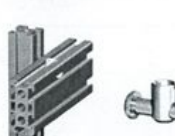
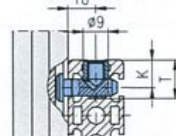
Special cases				
Profile	Mounting position	PG for connector selection	Mounting position	PG for connector selection
20×30 30×50		20 30		30 50
30×100		30		50

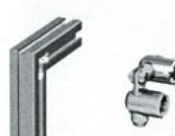
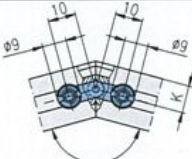
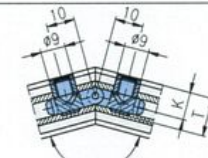
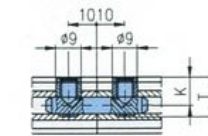
 MayTec®

Connectors for profiles with core hole-Ø 12 mm

1.2A

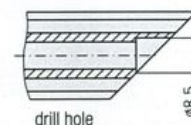
Connection / Connector	Finished dimension	PG	Article-No. for connector with							
			H-head		VA	F-head		VA	E-head	
			steel standard	E		steel standard	E		steel standard	E
Universal 		20	1.21.2H0			1.21.2F0	E V		1.21.2E0	E V
		30	1.21.3H0			1.21.3F0	E V		1.21.3E0	E V
		40	1.21.40H0			1.21.4F0	E V		1.21.4E0	E V
		45	1.21.45H0			1.21.45F0	E V		1.21.45E0	E V
		50	1.21.50H0			1.21.5F0	E V		1.21.5E0	E V
		60	1.21.60H0			1.21.6F0	E V		1.21.6E0	E V
Standard 		20				1.21.2F1	E V		1.21.2E1	E V
		30				1.21.3F1	E V		1.21.3E1	E V
		40				1.21.4F1	E V		1.21.4E1	E V
		45				1.21.45F1	E V		1.21.45E1	E V
		50				1.21.5F1	E V		1.21.5E1	E V
		60				1.21.6F1	E V		1.21.6E1	E V
90° 		20				1.21.2F2	E V		1.21.2E2	E V
		30				1.21.3F2	E V		1.21.3E2	E V
		40				1.21.4F2	E V		1.21.4E2	E V
		45				1.21.45F2	E V		1.21.45E2	E V
		50				1.21.5F2	E V		1.21.5E2	E V
		60				1.21.6F2	E V		1.21.6E2	E V
Square head Universal 		20							1.21.20E40	
		30							1.21.30E40	
		40							1.21.40E40	
		45							1.21.45E40	
		50							1.21.50E40	
		60							1.21.60E40	
Square head Standard 		20				1.21.20F41				
		30				1.21.30F41				

Connection / Connector	Finished dimension	PG	Article-No. for connector with					
			H-head		F-head		E-head	
			steel standard	E	VA	steel standard	E	VA
Universal 		20	1.20.2H0		V	1.20.2F0		1.20.2E0
Oblique -hinge l + r 		20	1.20.2HK1			1.20.2FK1		
Oblique 90° -hinge 		20	1.20.2HK2			1.20.2FK2		
Parallel -square 		20	1.20.2H0		V	1.20.2F0		1.20.2E0
-cross 								
-high 								

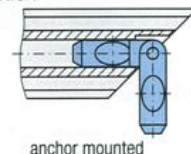
Connection / Connector	Finished dimension	PG	Article-No. for connector	
			steel standard	VA
Miter -hinge l + r 		20	1.20.2G1	
Miter 90° -hinge l + r 		20	1.20.2G2	
Extension 		20	1.20.2V0	V

Machining of profiles with core hole-Ø 6 mm for miter

In order not to reduce the strength of the miter joint one profile end must be counterbored



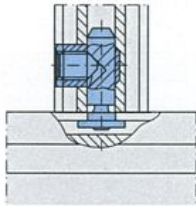
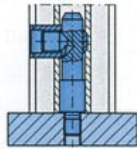
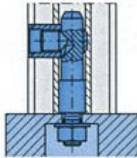
The center portion of the anchor part is to be located in the counterbored profile section



Comments

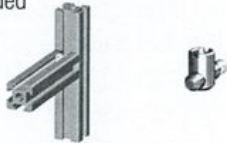
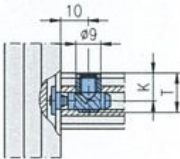
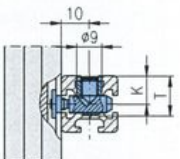
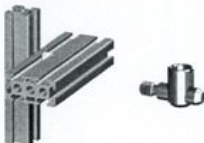
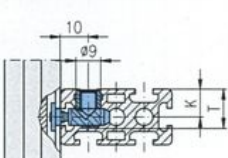
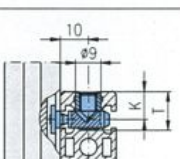
Use drill for miter anchor Article-No.: 1.99.0310800 → tools 1.99

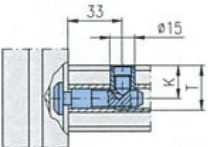
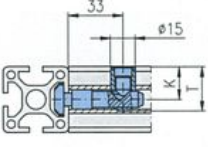
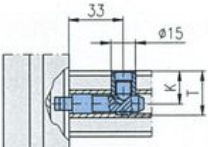
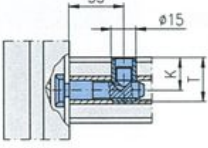
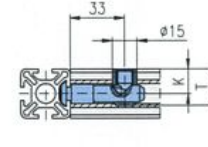
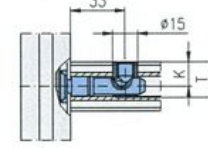
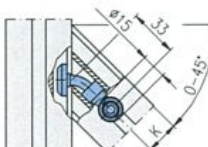
Connection variants with screw-type connectors

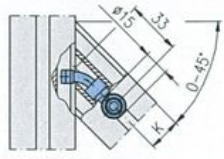
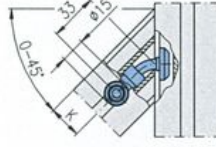
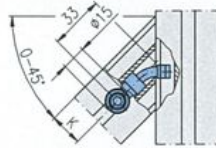
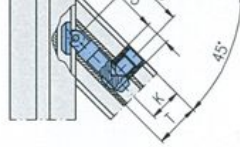
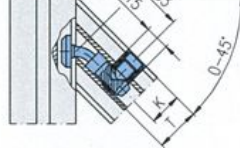
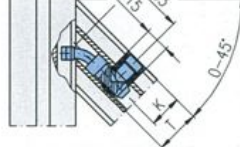
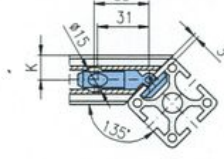
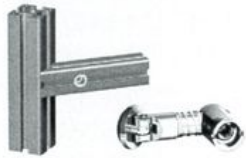
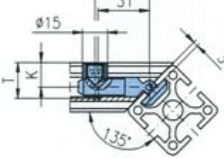
		
Profile with profile	Profile to plate with thread	Profile to plate with through-hole

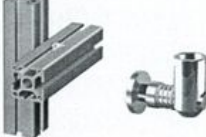
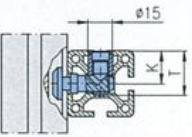
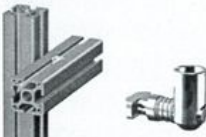
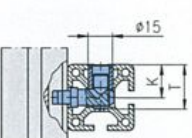
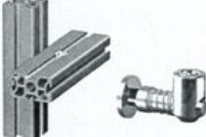
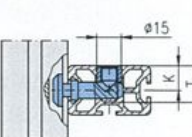
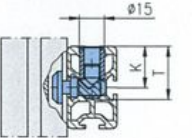
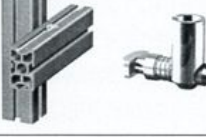
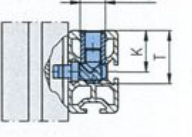
Mounting instruction for screw-type connectors

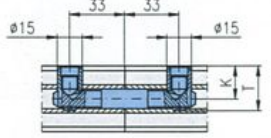
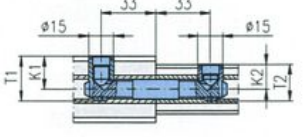
1. Screw anchor in until it stops against the shoulder
2. Unscrew anchor until it lines-up with the cross bushing position (max. one turn)
3. Set up profile with cross bushing

Connection / Connector	Finished dimension	PG	thread	Article-No. for connector	
				steel standard	VA E
Screw-type front sided 		20	M4×7	1.20.2S2M4/7	V
			M5×7	1.20.2S2M5/7	
			M6×7	1.20.2S2M6/7	
Screw-type parallel -square 					
-cross 					
-high 					

Connection / Connector	Finished dimension	PG	Article-No. for connector with							
			H-head		F-head		E-head		VA	VA
			steel standard	E	steel standard	E	steel standard	E		
Universal 		20	1.21.2H0		1.21.2F0	E	V 1.21.2E0	E	V	V
		30	1.21.3H0		1.21.3F0	E	V 1.21.3E0	E	V	V
		40	1.21.40H0		1.21.4F0	E	V 1.21.4E0	E	V	V
		45	1.21.45H0		1.21.45F0	E	V 1.21.45E0	E	V	V
		50	1.21.50H0		1.21.5F0	E	V 1.21.5E0	E	V	V
		60	1.21.60H0		1.21.6F0	E	V 1.21.6E0	E	V	V
Standard 		20			1.21.2F1	E	V 1.21.2E1	E	V	V
		30			1.21.3F1	E	V 1.21.3E1	E	V	V
		40			1.21.4F1	E	V 1.21.4E1	E	V	V
		45			1.21.45F1	E	V 1.21.45E1	E	V	V
		50			1.21.5F1	E	V 1.21.5E1	E	V	V
		60			1.21.6F1	E	V 1.21.6E1	E	V	V
90° 		20			1.21.2F2	E	V 1.21.2E2	E	V	V
		30			1.21.3F2	E	V 1.21.3E2	E	V	V
		40			1.21.4F2	E	V 1.21.4E2	E	V	V
		45			1.21.45F2	E	V 1.21.45E2	E	V	V
		50			1.21.5F2	E	V 1.21.5E2	E	V	V
		60			1.21.6F2	E	V 1.21.6E2	E	V	V
Square head Universal 		20					1.21.20E40			
		30					1.21.30E40			
		40					1.21.40E40			
		45					1.21.45E40			
		50					1.21.50E40			
		60					1.21.60E40			
Square head Standard 		20			1.21.20F41					
		30			1.21.30F41					
		40			1.21.40F41					
		45			1.21.45F41					
		50			1.21.50F41					
		60			1.21.60F41					
90° 		20			1.21.20F42					
		30			1.21.30F42					
		40			1.21.40F42					
		45			1.21.45F42					
		50			1.21.50F42					
		60			1.21.60F42					
Oblique -hinge I + r 		20			1.21.2FK1		V 1.21.2EK1		V	V
		30			1.21.3FK1		V 1.21.3EK1		V	V
		40			1.21.4FK1		V 1.21.4EK1		V	V
		45			1.21.45FK1		V 1.21.45EK1		V	V
		50			1.21.5FK1		V 1.21.5EK1		V	V
		60			1.21.6FK1		V 1.21.6EK1		V	V
-bent anchor I 		20			1.21.2FB1/□□	E	1.21.2EB1/□□	E		
		30			1.21.3FB1/□□	E	1.21.3EB1/□□	E		
		40			1.21.4FB1/□□	E	1.21.4EB1/□□	E		
		45			1.21.45FB1/□□	E	1.21.45EB1/□□	E		
		50			1.21.5FB1/□□	E	1.21.5EB1/□□	E		
		60			1.21.6FB1/□□	E	1.21.6EB1/□□	E		

Connection / Connector	Finished dimension	PG	Article-No. for connector with							
			H-head		F-head		E-head		VA	
			steel standard	E	steel standard	E	steel standard	E		
Oblique -bent anchor standard l 		20			1.21.2F1B1L/□□		1.21.2E1B1L/□□			
		30			1.21.3F1B1L/□□		1.21.3E1B1L/□□			
		40			1.21.4F1B1L/□□		1.21.4E1B1L/□□			
		45			1.21.45F1B1L/□□		1.21.45E1B1L/□□			
		50			1.21.5F1B1L/□□		1.21.5E1B1L/□□			
		60			1.21.6F1B1L/□□		1.21.6E1B1L/□□			
-bent anchor r 		20			1.21.2FB1R/□□	E	1.21.2EB1R/□□	E		
		30			1.21.3FB1R/□□	E	1.21.3EB1R/□□	E		
		40			1.21.4FB1R/□□	E	1.21.4EB1R/□□	E		
		45			1.21.45FB1R/□□	E	1.21.45EB1R/□□	E		
		50			1.21.5FB1R/□□	E	1.21.5EB1R/□□	E		
		60			1.21.6FB1R/□□	E	1.21.6EB1R/□□	E		
-bent anchor standard r 		20			1.21.2F1B1R/□□		1.21.2E1B1R/□□			
		30			1.21.3F1B1R/□□		1.21.3E1B1R/□□			
		40			1.21.4F1B1R/□□		1.21.4E1B1R/□□			
		45			1.21.45F1B1R/□□		1.21.45E1B1R/□□			
		50			1.21.5F1B1R/□□		1.21.5E1B1R/□□			
		60			1.21.6F1B1R/□□		1.21.6E1B1R/□□			
Oblique 90° -hinge 		20			1.21.2FK2	V	1.21.2EK2	V		
		30			1.21.3FK2	V	1.21.3EK2	V		
		40			1.21.4FK2	V	1.21.4EK2	V		
		45			1.21.45FK2	V	1.21.45EK2	V		
		50			1.21.5FK2	V	1.21.5EK2	V		
		60			1.21.6FK2	V	1.21.6EK2	V		
-bent anchor 		20			1.21.2FB2/□□	E	1.21.2EB2/□□	E		
		30			1.21.3FB2/□□	E	1.21.3EB2/□□	E		
		40			1.21.4FB2/□□	E	1.21.4EB2/□□	E		
		45			1.21.45FB2/□□	E	1.21.45EB2/□□	E		
		50			1.21.5FB2/□□	E	1.21.5EB2/□□	E		
		60			1.21.6FB2/□□	E	1.21.6EB2/□□	E		
-bent anchor 90° 		20			1.21.2F2B2/□□		1.21.2E2B2/□□			
		30			1.21.3F2B2/□□		1.21.3E2B2/□□			
		40			1.21.4F2B2/□□		1.21.4E2B2/□□			
		45			1.21.45F2B2/□□		1.21.45E2B2/□□			
		50			1.21.5F2B2/□□		1.21.5E2B2/□□			
		60			1.21.6F2B2/□□		1.21.6E2B2/□□			
Oblique-cross-hinge 		20			1.21.2FK3		1.21.2EK3		V	
		30			1.21.3FK3		1.21.3EK3		V	
		40			1.21.4FK3		1.21.4EK3		V	
		45			1.21.45FK3		1.21.45EK3		V	
		50			1.21.5FK3		1.21.5EK3		V	
		60			1.21.6FK3		1.21.6EK3		V	
90° 		20			1.21.2FK4		1.21.2EK4		V	
		30			1.21.3FK4		1.21.3EK4		V	
		40			1.21.4FK4		1.21.4EK4		V	
		45			1.21.45FK4		1.21.45EK4		V	
		50			1.21.5FK4		1.21.5EK4		V	
		60			1.21.6FK4		1.21.6EK4		V	

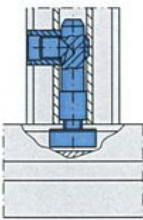
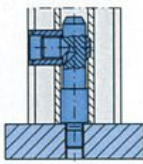
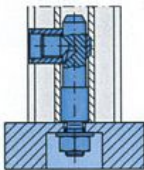
Connection / Connector	Finished dimension	PG	Article-No. for connector with							
			H-head		F-head		E-head			
			steel standard	E	steel standard	E	steel standard	E	VA	VA
Parallel -square 		20								
		30			1.21.3F5		1.21.3E5			
		40			1.21.4F5		1.21.4E5			
		45			1.21.45F5		1.21.45E5			
		50			1.21.5F5		1.21.5E5			
		60			1.21.6F5		1.21.6E5			
-square 90° 		20								
		30					1.21.3E2-5			
		40								
		45								
		50								
		60								
-cross 		20			1.21.2/3F5		1.21.2/3E5			
		30			1.21.3/5F5		1.21.3/5E5			
		40								
		45								
		50								
		60								
-high 		20								
		30			1.21.3/2F5		1.21.3/2E5			
		40								
		45								
		50			1.21.5/3F5		1.21.5/3E5			
		60								
-high 90° 		20								
		30								
		40								
		45								
		50					1.21.5/3E2-5			
		60								

Connection / Connector	Finished dimension	PG, K×2	Article-No. for connector		PG, K×2	Article-No. for connector		
			steel standard	VA E		steel standard	VA E	
Extension 		20	1.21.2V0	V				
		30	1.21.3V0	V				
		40	1.21.4V0	V				
		45	1.21.45V0	V				
		50	1.21.5V0	V				
		60	1.21.6V0	V				
			30/20	1.21.3/2V0	V	50/20	1.21.5/2V0	V
			40/20	1.21.4/2V0	V	30	1.21.5/3V0	V
			30	1.21.4/3V0	V	40	1.21.5/4V0	V
			45/20	1.21.45/2V0	V	45	1.21.5/45V0	V
30			1.21.45/3V0	V	60/20	1.21.6/2V0	V	
40			1.21.45/4V0	V	30	1.21.6/3V0	V	
				40	1.21.6/4V0	V		
				45	1.21.6/45V0	V		
				50	1.21.6/5V0	V		

E = ground-connector, VA = stainless steel 1.4305

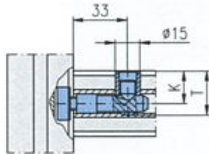
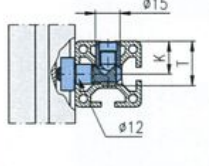
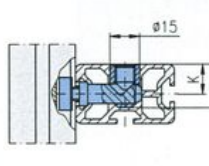
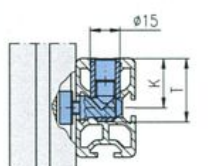
2

Connection variants with screw-type connectors

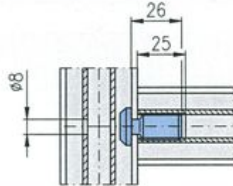
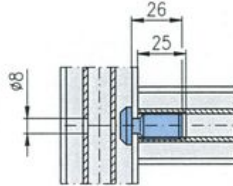
		
Profile with profile	Profile to plate with thread	Profile to plate with through-hole

Mounting instruction for screw-type connectors

1. Screw anchor in until it stops against the shoulder
2. Unscrew anchor until it lines-up with the cross bushing position (max. one turn)
3. Set up profile with cross bushing

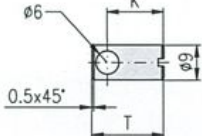
Connection / Connector	Finished dimension	PG	thread	Article-No. for connectors for mounting on profiles with								
				F-slot		E-slot		other				
				7 mm		Length of thread 11 mm		40 mm				
				steel standard	E	VA	steel standard	E	VA	steel standard	E	VA
Screw-type - front sided 		20	M6				1.21.2S1M6/11					
		30					1.21.3S1M6/11					
		40					1.21.4S1M6/11					
		45					1.21.45S1M6/11					
		50					1.21.5S1M6/11					
		60					1.21.6S1M6/11					
		20	M8	1.21.20S1M8/7			1.21.2S1M8/11		V	1.21.2S1M8/40		
		30		1.21.30S1M8/7			1.21.3S1M8/11		V	1.21.3S1M8/40		
		40		1.21.40S1M8/7			1.21.4S1M8/11		V	1.21.4S1M8/40		
		45		1.21.45S1M8/7			1.21.45S1M8/11		V	1.21.45S1M8/40		
		50		1.21.50S1M8/7			1.21.5S1M8/11		V	1.21.5S1M8/40		
		60		1.21.60S1M8/7			1.21.6S1M8/11		V	1.21.6S1M8/40		
Screw-type - parallel -square 		20	M8				1.21.2S5M8/11					
		30		1.21.3S5M8/7			1.21.3S5M8/11					
		40		1.21.4S5M8/7			1.21.4S5M8/11					
		45				1.21.45S5M8/11						
		50				1.21.5S5M8/11						
		60				1.21.6S5M8/11						
-cross 		20	M8				1.21.2/3S5M8/11					
		30				1.21.3/5S5M8/11						
		40										
		45										
		50										
		60										
-high 		20	M8									
		30				1.21.3/2S5M8/11						
		40										
		45										
		50				1.21.5/3S5M8/11						
		60										

E = ground-connector, VA = stainless steel 1.4305

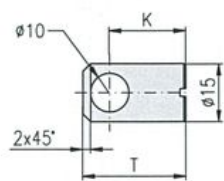
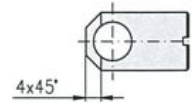
Connection / Connector	Finished dimension	Article-No. for connector with								
		H-head			F-head			E-head		
		steel standard	E	VA	steel standard	E	VA	steel standard	E	VA
Connector screw					1.21.VSFM14			1.21.VSEM14		
-self-cutting					1.21.VSFS126S			1.21.VSES126S		
					1.21.VSFS128L			1.21.VSES128L		

Slot type	Cross bushing	Chamfer	Profile	PG	Core hole distance K	Boring depth, Cross bushing length T	Drill-Ø	Article-No.	
								steel	VA

H-slots

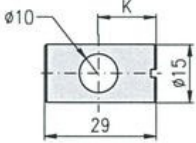
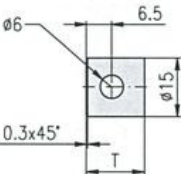
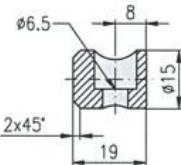
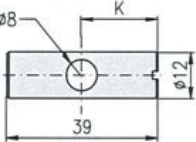
	0.5x45°		20	10	14	9.2	1.20.B21	V
		Standard						
	1.5x45°		20	10	14	9.2	1.20.B22	
		1.10.020020.21SP						

F + E-slots

	2x45°	Standard	20	10	17	15.25	1.21.B20	V
			30	15	22	15.25	1.21.B30	V
			40	20	27	15.25	1.21.B40	V
			40	20	27	15.25	1.21.B40R	
			45	22.5	29.5	15.25	1.21.B45	V
			50	25	32	15.25	1.21.B50	V
			60	30	37	15.25	1.21.B60	V
	4x45°	 1.11.030030.21S(P)	30	15	22	15.25	1.21.B34	
		 1.11.030150.84SP						
			40	20	27	15.25	1.21.B44	
		 1.11.040040.28LP						

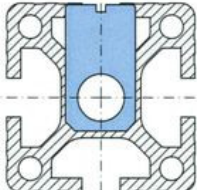
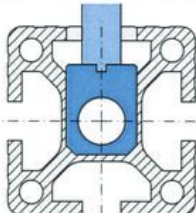
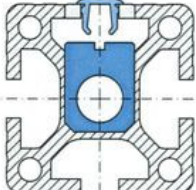
tools ➡ 1.99, VA = stainless steel 1.4305

Slot type Connector	Cross bushing	PG/ Profile/ Slot	Core hole distance K	Boring depth, Cross bushing length T	Drill-Ø	Article-No.	
						steel	VA

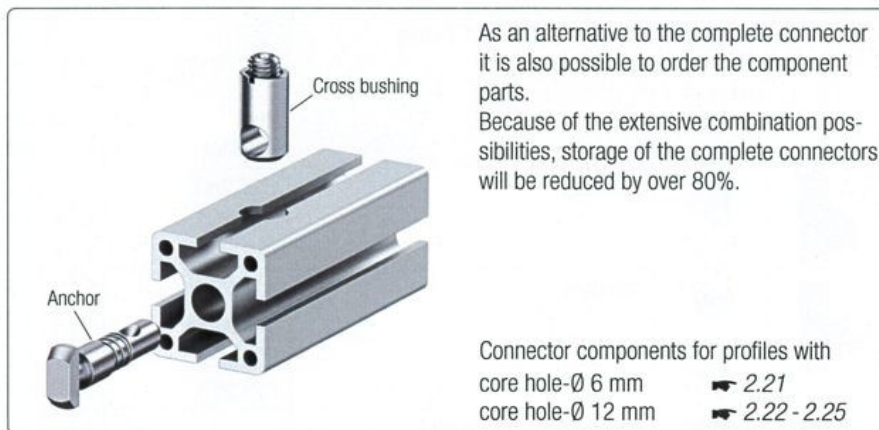
E-slots							
Special-universal-connector for profile 30×150 ➡ 2.26		30×150	15	30	15.25	1.21.B31	
Special-SE-Connector ➡ 2.29		16, E3	-	15	15.25	1.21.BE3	
		E4	-	16	15.25	1.21.BE4	
Special-ST-Connector ➡ 2.30		E	-	19	15.25	1.21.STBM6	
Special-ST-Connector with screw-type anchor ➡ 2.31		16, E3	-	40	12.2	1.21.STSB40	

tools ➡ 1.99, VA = stainless steel 1.4305

Mounting variants

Standard application: Cross bushing, flush	Special application: Cross bushing for the next smaller profile	
		
	for the application of panels	for the application of cover profiles

Connector components



Connector for core hole-Ø 6 mm			Connector complete			Single parts			
			PG 20			Anchor			Piece
			steel standard	E	VA	steel standard	E	VA	
		Universal	1.20.2H0		V	1.20.A2H0		V	1 1
			1.20.2F0			1.20.A2F0			1 1
			1.20.2E0			1.20.A2E0			1 1
		Oblique -hinge l + r	1.20.2HK1			1.20.A2HK1			1 1
			1.20.2FK1			1.20.A2FK1			1 1
		90° -hinge	1.20.2HK2			1.20.A2HK2			1 1
			1.20.2FK2			1.20.A2FK2			1 1
		Parallel -square ¹⁾	1.20.2H0		V				
			1.20.2F0						
			1.20.2E0						
		-cross ¹⁾	1.20.2H0		V				
			1.20.2F0						
			1.20.2E0						
		-high ¹⁾	1.20.2H0		V				
			1.20.2F0						
			1.20.2E0						
		Miter -hinge l + r	1.20.2G1			1.20.A2G1			1 2
		90° -hinge l + r	1.20.2G2			1.20.A2G2			1 2
		Extension	1.20.2V0		V	1.20.A2V0		V	1 2
		Screw-type	1.20.2S2M4-7		V	1.20.A2S2M4-7		V	1 1
			1.20.2S2M5-7			1.20.A2S2M5-7			1 1
			1.20.2S2M6-7			1.20.A2S2M6-7			1 1
		-Parallel-square ²⁾	1.20.2S2M4-7		V				
			1.20.2S2M5-7						
			1.20.2S2M6-7						
		-Parallel-cross ²⁾	1.20.2S2M4-7		V				
			1.20.2S2M5-7						
			1.20.2S2M6-7						
		-Parallel-high ²⁾	1.20.2S2M4-7		V				
			1.20.2S2M5-7						
			1.20.2S2M6-7						
		Cross bushing, steel	1.20.B21			Cross bushing, steel			
		Cross bushing, VA		1.20.B21	V	Cross bushing, VA			

E = ground-connector, VA = stainless steel 1.4305

¹⁾ = Connector, universal

²⁾ = Connector, screw-type

Connector for core hole-Ø 12 mm			Connectors, complete									
			PG 20		PG 30		PG 40					
			steel standard	E	VA	steel standard	E	VA	steel standard	E	VA	
		Universal	1.21.2H0			1.21.3H0			1.21.4H0			
			1.21.2F0	E	V	1.21.3F0	E	V	1.21.4F0	E	V	
			1.21.2E0	E	V	1.21.3E0	E	V	1.21.4E0	E	V	
		Standard	1.21.2F1	E	V	1.21.3F1	E	V	1.21.4F1	E	V	
			1.21.2E1	E	V	1.21.3E1	E	V	1.21.4E1	E	V	
		90°	1.21.2F2	E	V	1.21.3F2	E	V	1.21.4F2	E	V	
			1.21.2E2	E	V	1.21.3E2	E	V	1.21.4E2	E	V	
		Square head Universal	1.21.20E40			1.21.30E40			1.21.40E40			
			1.21.20F41			1.21.30F41			1.21.40F41			
		Standard	1.21.20F41			1.21.30F41			1.21.40F41			
			90°	1.21.20F42			1.21.30F42			1.21.40F42		
		Oblique	-hinge l + r	1.21.2FK1		V	1.21.3FK1		V	1.21.4FK1		V
				1.21.2EK1		V	1.21.3EK1		V	1.21.4EK1		V
			-bent anchor l	1.21.2FB1L/□□	E		1.21.3FB1L/□□	E		1.21.4FB1L/□□	E	
				1.21.2EB1L/□□	E		1.21.3EB1L/□□	E		1.21.4EB1L/□□	E	
			-bent a. standard l	1.21.2F1B1L/□□			1.21.3F1B1L/□□			1.21.4F1B1L/□□		
				1.21.2E1B1L/□□			1.21.3E1B1L/□□			1.21.4E1B1L/□□		
		90°	-bent anchor r	1.21.2FB1R/□□	E		1.21.3FB1R/□□	E		1.21.4FB1R/□□	E	
				1.21.2EB1R/□□	E		1.21.3EB1R/□□	E		1.21.4EB1R/□□	E	
			-bent a. standard r	1.21.2F1B1R/□□			1.21.3F1B1R/□□			1.21.4F1B1R/□□		
				1.21.2E1B1R/□□			1.21.3E1B1R/□□			1.21.4E1B1R/□□		
			-hinge	1.21.2FK2		V	1.21.3FK2		V	1.21.4FK2		V
				1.21.2EK2		V	1.21.3EK2		V	1.21.4EK2		V
		Oblique-cross	-hinge	1.21.2FK3		V	1.21.3FK3		V	1.21.4FK3		V
				1.21.2EK3		V	1.21.3EK3		V	1.21.4EK3		V
		-hinge 90°	1.21.2FK4		V	1.21.3FK4		V	1.21.4FK4		V	
			1.21.2EK4		V	1.21.3EK4		V	1.21.4EK4		V	
		Parallel	-square			1.21.3/2F5 ²⁾						
						1.21.3/2E5 ²⁾						
			-square 90°	1.21.2/3F5 ¹⁾			1.21.3F5					
				1.21.2/3E5 ¹⁾			1.21.3E5					
		-cross ¹⁾			1.21.3E2-5			1.21.4F5				
								1.21.4E5				
		-high ²⁾			1.21.3/5F5 ¹⁾							
					1.21.3/5E5 ¹⁾							
		-high 90°										

	Cross bushing, steel	1.21.B20		1.21.B30		1.21.B40	
	Cross bushing, VA	1.21.B20	V	1.21.B30	V	1.21.B40	V

E = ground connector, VA = stainless steel 1.4305

						Single parts		
PG 45		PG 50		PG 60		Anchor	Piece	
steel standard	E VA	steel standard	E VA	steel standard	E VA	steel standard	E VA	
1.21.45H0		1.21.50H0		1.21.60H0		1.21.A1H0		1 1
1.21.45F0	E V	1.21.5F0	E V	1.21.6F0	E V	1.21.A1F0	E V	1 1
1.21.45E0	E V	1.21.5E0	E V	1.21.6E0	E V	1.21.A1E0	E V	1 1
1.21.45F1	E V	1.21.5F1	E V	1.21.6F1	E V	1.21.A1F1	E V	1 1
1.21.45E1	E V	1.21.5E1	E V	1.21.6E1	E V	1.21.A1E1	E V	1 1
1.21.45F2	E V	1.21.5F2	E V	1.21.6F2	E V	1.21.A1F2	E V	1 1
1.21.45E2	E V	1.21.5E2	E V	1.21.6E2	E V	1.21.A1E2	E V	1 1
1.21.45E40		1.21.50E40		1.21.60E40		1.21.A1E40		1 1
1.21.45F41		1.21.50F41		1.21.60F41		1.21.A1F41		1 1
1.21.45F42		1.21.50F42		1.21.60F42		1.21.A1F42		1 1
1.21.45FK1	V	1.21.5FK1	V	1.21.6FK1	V	1.21.A1FK1	V	1 1
1.21.45EK1	V	1.21.5EK1	V	1.21.6EK1	V	1.21.A1EK1	V	1 1
1.21.45FB1L/□□	E	1.21.5FB1L/□□	E	1.21.6FB1L/□□	E	1.21.A1FB1L/□□	E	1 1
1.21.45EB1L/□□	E	1.21.5EB1L/□□	E	1.21.6EB1L/□□	E	1.21.A1EB1L/□□	E	1 1
1.21.45F1B1L/□□		1.21.5F1B1L/□□		1.21.6F1B1L/□□		1.21.A1F1B1L/□□		1 1
1.21.45E1B1L/□□		1.21.5E1B1L/□□		1.21.6E1B1L/□□		1.21.A1E1B1L/□□		1 1
1.21.45FB1R/□□	E	1.21.5FB1R/□□	E	1.21.6FB1R/□□	E	1.21.A1FB1R/□□	E	1 1
1.21.45EB1R/□□	E	1.21.5EB1R/□□	E	1.21.6EB1R/□□	E	1.21.A1EB1R/□□	E	1 1
1.21.45F1B1R/□□		1.21.5F1B1R/□□		1.21.6F1B1R/□□		1.21.A1F1B1R/□□		1 1
1.21.45E1B1R/□□		1.21.5E1B1R/□□		1.21.6E1B1R/□□		1.21.A1E1B1R/□□		1 1
1.21.45FK2	V	1.21.5FK2	V	1.21.6FK2	V	1.21.A1FK2	V	1 1
1.21.45EK2	V	1.21.5EK2	V	1.21.6EK2	V	1.21.A1EK2	V	1 1
1.21.45FB2/□□	E	1.21.5FB2/□□	E	1.21.6FB2/□□	E	1.21.A1FB2/□□	E	1 1
1.21.45EB2/□□	E	1.21.5EB2/□□	E	1.21.6EB2/□□	E	1.21.A1EB2/□□	E	1 1
1.21.45F2B2/□□		1.21.5F2B2/□□		1.21.6F2B2/□□		1.21.A1F2B2/□□		1 1
1.21.45E2B2/□□		1.21.5E2B2/□□		1.21.6E2B2/□□		1.21.A1E2B2/□□		1 1
1.21.45FK3		1.21.5FK3		1.21.6FK3		1.21.A1FK3		1 1
1.21.45EK3	V	1.21.5EK3	V	1.21.6EK3	V	1.21.A1EK3	V	1 1
1.21.45FK4		1.21.5FK4		1.21.6FK4		1.21.A1FK4		1 1
1.21.45EK4	V	1.21.5EK4	V	1.21.6EK4	V	1.21.A1EK4	V	1 1
						1.21.A2F5		1 1
						1.21.A2E5		1 1
		1.21.5/3F5 2)				1.21.A3F5		1 1
		1.21.5/3E5 2)				1.21.A3E5		1 1
						1.21.A3E2-5		1 1
						1.21.A4F5		1 1
						1.21.A4E5		1 1
1.21.45F5						1.21.A45F5		1 1
1.21.45E5						1.21.A45E5		1 1
		1.21.5F5				1.21.A5F5		1 1
		1.21.5E5				1.21.A5E5		1 1
				1.21.6F5		1.21.A6F5		1 1
				1.21.6E5		1.21.A6E5		1 1
		1.21.5/3E2-5				1.21.A3E2-5		1 1
1.21.B45		1.21.B50		1.21.B60		Cross bushing, steel		
1.21.B45	V	1.21.B50	V	1.21.B60	V	Cross bushing, VA		

Single parts
Anchor

Base with spring
Cross bushing

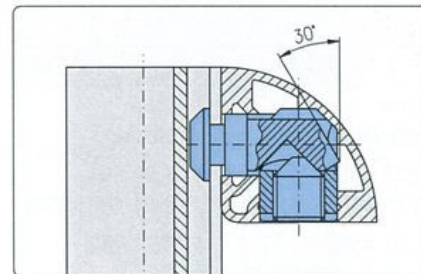
Base with setscrew

Connector for core hole-Ø 12 mm				Connectors, complete							
				PG 20		PG 30		PG 40			
				steel standard	E VA	steel standard	E VA	steel standard	E VA		
		Miter	-hinge l + r	1.21.2G1	V	1.21.3G1	V	1.21.4G1	V		
			-bent anchor l + r	1.21.2GB1/□□		1.21.3GB1/□□		1.21.4GB1/□□			
		90°	-hinge l + r	1.21.2G2	V	1.21.3G2	V	1.21.4G2	V		
			-bent anchor l	1.21.2GB2L/□□		1.21.3GB2L/□□		1.21.4GB2L/□□			
			-bent anchor r	1.21.2GB2R/□□		1.21.3GB2R/□□		1.21.4GB2R/□□			
		Extension		1.21.2V0	V	1.21.3V0	V	1.21.4V0	V		
						1.21.3/2V0	V	1.21.4/2V0 1.21.4/3V0	V V		
		Screw-type	-front sided	1.21.2S1M6/11		1.21.3S1M6/11		1.21.4S1M6/11			
				1.21.20S1M8/7		1.21.30S1M8/7		1.21.40S1M8/7			
				1.21.2S1M8/11	V	1.21.3S1M8/11	V	1.21.4S1M8/11	V		
				1.21.2S1M8/40		1.21.3S1M8/40		1.21.4S1M8/40			
			-Parallel-square	1.21.2S5M8/11		1.21.3S5M8/7 1.21.3S5M8/11					
								1.21.4S5M8/7 1.21.4S5M8/11			
			-Parallel-cross	1.21.2/3S5M8/11		1.21.3/5S5M8/11					
			-Parallel-high			1.21.3/2S5M8/11					

	Cross bushing, steel	1.21.B20		1.21.B30		1.21.B40	
	Cross bushing, VA	1.21.B20	V	1.21.B30	V	1.21.B40	V

						Single parts			1.21.B20	1.21.B30	1.21.B40	1.21.B45	1.21.B50
PG 45		PG 50		PG 60		Anchor	Piece						
steel standard	E	VA steel standard	E	VA steel standard	VA	steel standard	E	VA					
1.21.45G1	V	1.21.5G1	V	1.21.6G1	V	1.21.A1G1	V	1	2				
1.21.45GB1/□□		1.21.5GB1/□□		1.21.6GB1/□□		1.21.A1GB1/□□		1	2				
1.21.45G2	V	1.21.5G2	V	1.21.6G2	V	1.21.A1G2	V	1	2				
1.21.45GB2L/□□						1.21.A1GB2L/□□		1	2				
		1.21.5GB2L/□□		1.21.6GB2L/□□		1.21.A1GB245L/□□		1	2				
1.21.45GB2R/□□		1.21.5GB2R/□□		1.21.6GB2R/□□		1.21.A1GB2R/□□		1	2				
1.21.45V0	V	1.21.5V0	V	1.21.6V0	V	1.21.A1V0	V	1	2	-	-	-	-
1.21.45/2V0	V	1.21.5/2V0	V	1.21.6/2V0	V	1.21.A1V0	V	1	1	1	-	-	-
1.21.45/3V0	V	1.21.5/3V0	V	1.21.6/3V0	V	1.21.A1V0	V	1	1	-	1	-	-
1.21.45/4V0	V	1.21.5/4V0	V	1.21.6/4V0	V	1.21.A1V0	V	1	1	-	-	1	-
		1.21.5/45V0	V	1.21.6/45V0	V	1.21.A1V0	V	1	1	-	-	-	1
				1.21.6/5V0	V	1.21.A1V0	V	1	1	-	-	-	1
1.21.45S1M6/11		1.21.5S1M6/11		1.21.6S1M6/11		1.21.A1SM6/11		1	1				
1.21.45S1M8/7		1.21.5S1M8/7		1.21.6S1M8/7		1.21.A1SM8/7		1	1				
1.21.45S1M8/11	V	1.21.5S1M8/11	V	1.21.6S1M8/11	V	1.21.A1SM8/11	V	1	1				
1.21.45S1M8/40		1.21.5S1M8/40		1.21.6S1M8/40		1.21.A1SM8/40		1	1				
						1.21.A2SM8/11		1	1				
						1.21.A3SM8/7		1	1				
						1.21.A3SM8/11		1	1				
						1.21.A4SM8/7		1	1				
1.21.45S5M8/11						1.21.A4SM8/11		1	1				
						1.21.A45SM8/11		1	1				
		1.21.5S5M8/11				1.21.A5SM8/11		1	1				
				1.21.6S5M8/11		1.21.A6SM8/11		1	1				
						1.21.A3SM8/11		1	1				
						1.21.A5SM8/11		1	1				
						1.21.A2SM8/11		1	1				
		1.21.5/3S5M8/11				1.21.A3SM8/11		1	1				
1.21.B45		1.21.B50		1.21.B60		Cross bushing, steel							
1.21.B45	V	1.21.B50	V	1.21.B60	V	Cross bushing, VA							

Parallel connector for profile 30×30, soft



Application

Special anchor for parallel connector for profile 30×30, 2 F-slots, soft

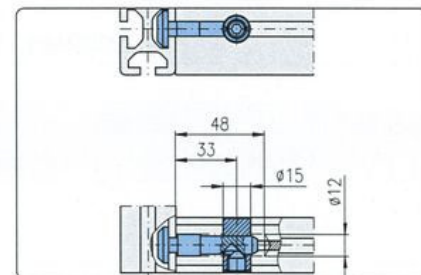


Description	Weight	Article-No.
Connector, parallel	40 g	1.21.31E5
Connector, parallel	33 g	1.21.31F5

Single parts

Description	Weight	Article-No.
Anchor, incl. spring	23 g	1.21.A31E5
Anchor, incl. spring	16 g	1.21.A31F5
Cross bushing, incl. setscrew	17 g	1.21.B34

Universal connector for profile 30×150



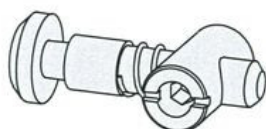
Drill dimensions

Application

Universal connector for connection of two profiles 30×150

Alternative connection possibility

➔ 2.30, ST-Connector

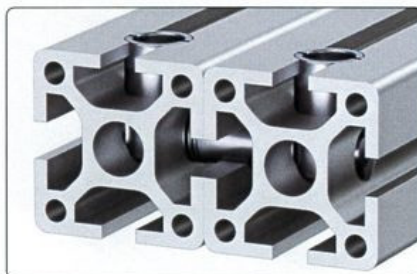


Description	Weight	Article-No.
Connector, universal	68 g	1.21.31E0

Single parts

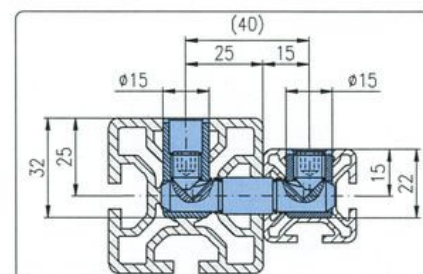
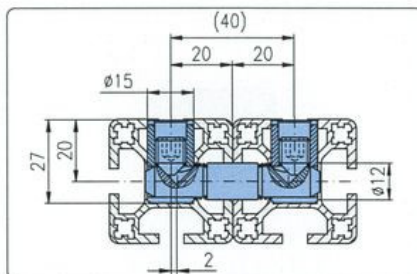
Description	Weight	Article-No.
Anchor, incl. spring	41 g	1.21.A1E0
Cross bushing, incl. setscrew	27 g	1.21.B31

Extension / parallel connector

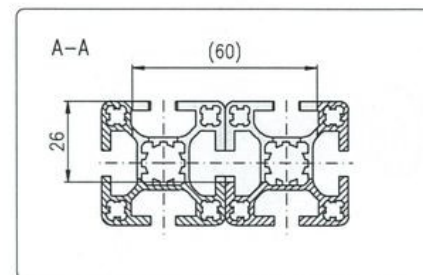


Application

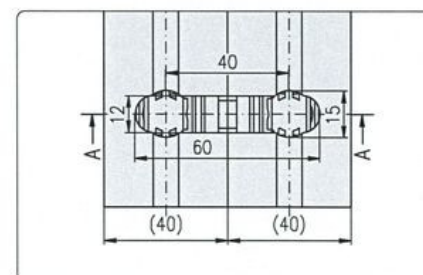
- Parallel connections with core hole distance of 40 mm
- Profile extensions



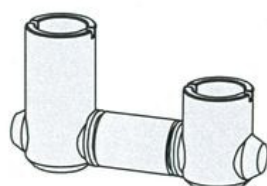
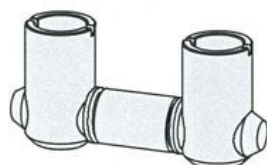
Insert front-sided



Profile machining



Profile machining



Description	Weight	Article-No.
Connector extension / parallel	76 g	1.21.40V040

Single parts

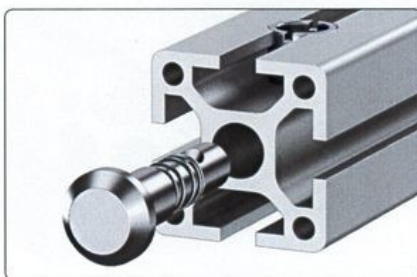
Description	Pcs	Weight	Article-No.
Anchor for connector extension / parallel, incl. springs	1	36 g	1.21.A1V040
Cross bushing B40, incl. setscrew	2	20 g	1.21.B40

Description	Weight	Article-No.
Connector extension / parallel	76 g	1.21.50-30V040

Single parts

Description	Pcs	Weight	Article-No.
Anchor for connector extension / parallel, incl. springs	1	36 g	1.21.A1V040
Cross bushing B50, incl. setscrew	1	25 g	1.21.B50
Cross bushing B30, incl. setscrew	1	15 g	1.21.B30

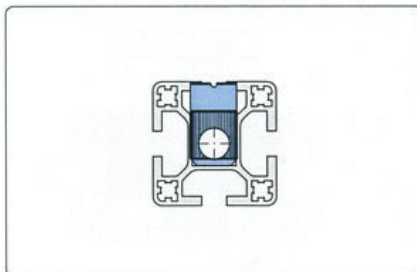
Universal connector with knurled cross bushing



Application

Fixable cross bushing

➡ Press in device, 1.98



Comments

The knurled cross bushing is suitable for all connectors with the cross bushing 1.21.B40

➡ Connector components, 1.2C

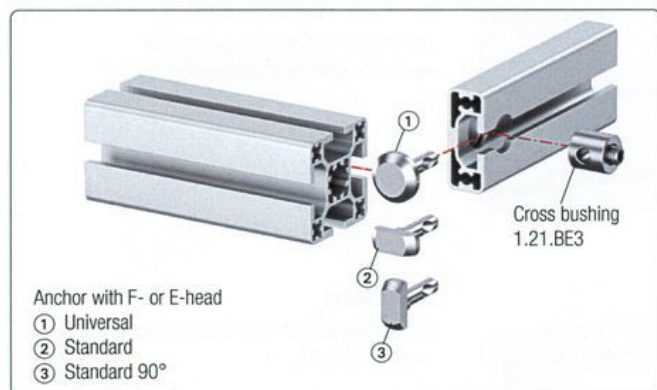


Description	Weight	Article-No.
Connector, universal with knurled cross bushing	60 g	1.21.40RE0

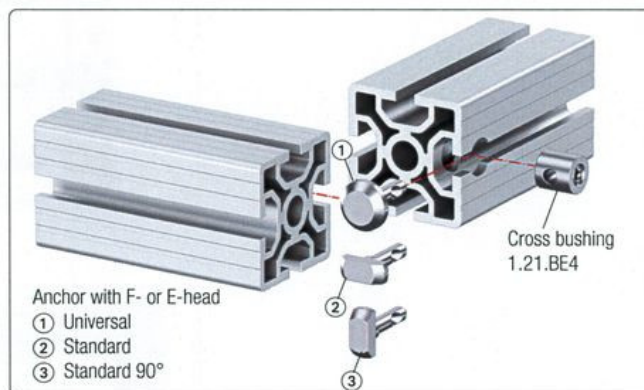
Single parts

Description	Pcs	Weight	Article-No.
Anchor, incl. spring	1	40 g	1.21.A1E0
Cross bushing B40, knurled, incl. setscrew	1	20 g	1.21.B40R

SE-Connector



for profiles with E3-slot, PG16, E



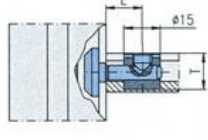
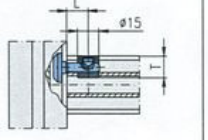
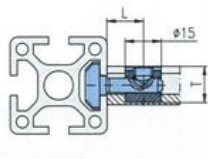
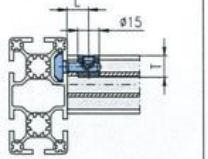
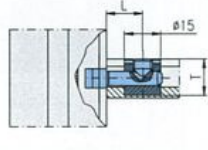
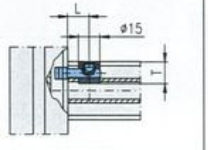
for profiles with E4-slot

Application

- for PG 16 E
- allows mounting of additional profiles into existing frames

Boring depth T	
mounting in	T
E3-slot	15 mm
E4-slot	16 mm

Drill distance L	
mounting on	L
F-slot	16 mm
E3-slot	15 mm
E4-slot	14 mm

Connection		Connection		Connector	Article-No. for SE-connector			
Profile PG16, E3-slot		Profile with E4-slot			mounting in E3-slot		mounting in E4-slot	
to F/E-slot		to F/E-slot			steel standard	VA E	steel standard	VA E
Universal		Universal			1.21.SE3F0 1.21.SE3E0		1.21.SE4F0 1.21.SE4E0	
Standard		Standard			1.21.SE3F1 1.21.SE3E1		1.21.SE4F1 1.21.SE4E1	
90°		90°			1.21.SE3F2 1.21.SE3E2		1.21.SE4F2 1.21.SE4E2	

Connectors for E3/E4-slot			Connectors, complete						Single parts				
			mounting in E3-slot			mounting in E4-slot			Anchor			Pieces	
			steel standard	E	VA	steel standard	E	VA	steel standard	E	VA		
		Universal	1.21.SE3F0			1.21.SE4F0			1.21.ASEF0			1	1
			1.21.SE3E0			1.21.SE4E0			1.21.ASEE0			1	1
		Standard	1.21.SE3F1			1.21.SE4F1			1.21.ASEF1			1	1
			1.21.SE3E1			1.21.SE4E1			1.21.ASEE1			1	1
		90°	1.21.SE3F2			1.21.SE4F2			1.21.ASEF2			1	1
			1.21.SE3E2			1.21.SE4E2			1.21.ASEE2			1	1
			Cross bushing		1.21.BE3	1.21.BE4							

E = ground-connector, VA = stainless steel 1.4305

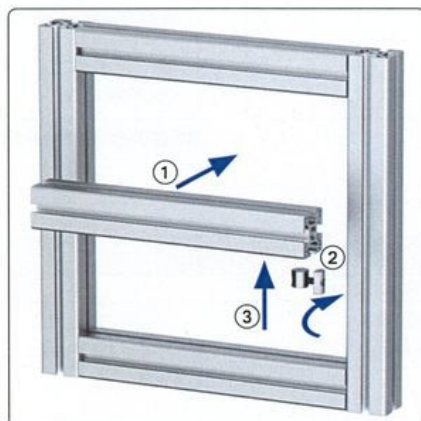
ST-Connector


Application

Connector for mounting into E-slot and for connection of profiles 30×150

Alternative connection possibility

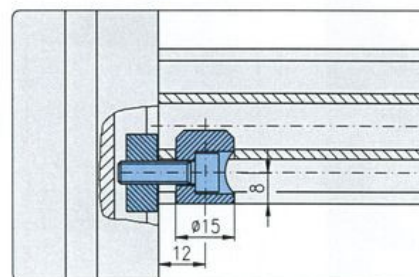
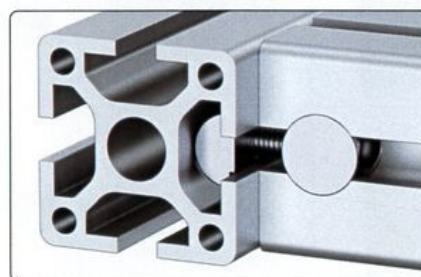
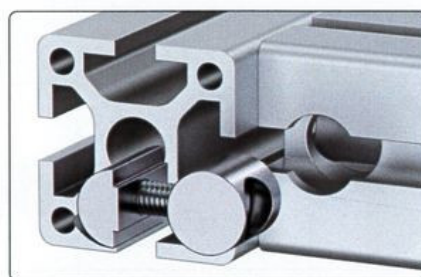
➔ 2.26, Universal connector


Application

ST-Connector for later insertion of profiles into closed frames

Assembly

- ① push the profile into the frame
- ② insert and rotate the T-Nut, pretension the screw (and cross bushing)
- ③ push the connector into the cross bushing bore, tighten the screw


Technical data

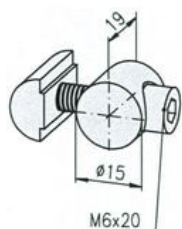
material: steel
surface: galvanised
torque: max. 14 Nm
tensile load: max. 5,000 N

Connector complete

Description	G	Weight	Article-No.
ST-Connector	M6	32.0 g	1.21.STEM620

Single parts

ST-Cross bushing	M6	16.7 g	1.21.STBM6
T-Nut for subsequent insertion into E-slots	M6	10.0 g	1.32.4EM6
Cap head screw DIN 912	M6×20	5.3 g	0.63.D00912.06020



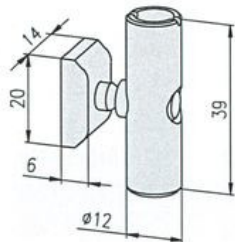
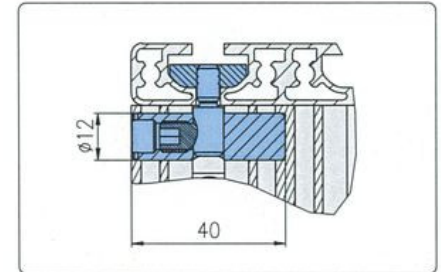
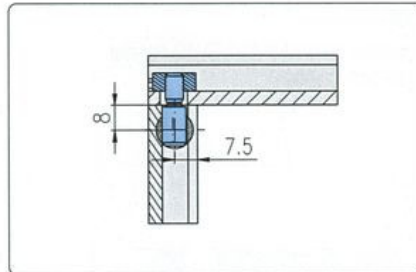
ST-Connector with anchor, screw-type



Application

ST-Connection for PG 16, E3-slot

➔ *Eco-Slide, 1.67*



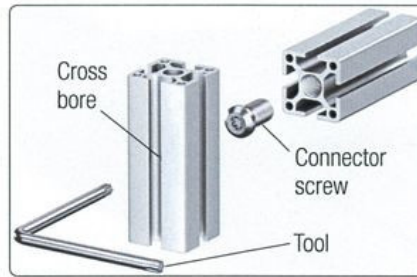
Connector complete

Description	G	Weight	Article-No.
ST-Connector with anchor, screw-type	M6	43.8 g	1.21.STESM6-11

Single parts

ST-Cross bushing		25.4 g	1.21.STSB40
Threaded plate, heavy, E	M6	12.4 g	1.31.7EM6
Anchor, screw-type, for ST-Connector	M6×11	6.0 g	1.21.ASTM6-11

Connector screw self-cutting



Application

Simple connections with profiles using a 12 mm core hole

Technical data

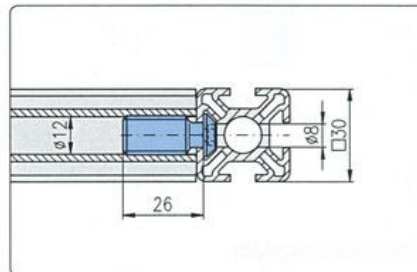
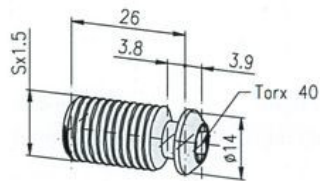
material: steel 8.8

surface: galvanised

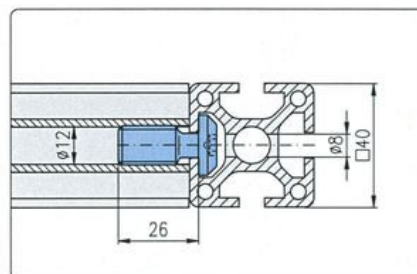
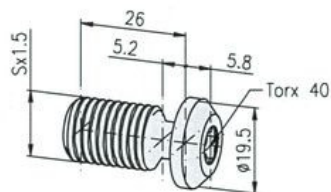
Tool

Tx screw driver for Torx® 40 screws

1.98.T40.090090

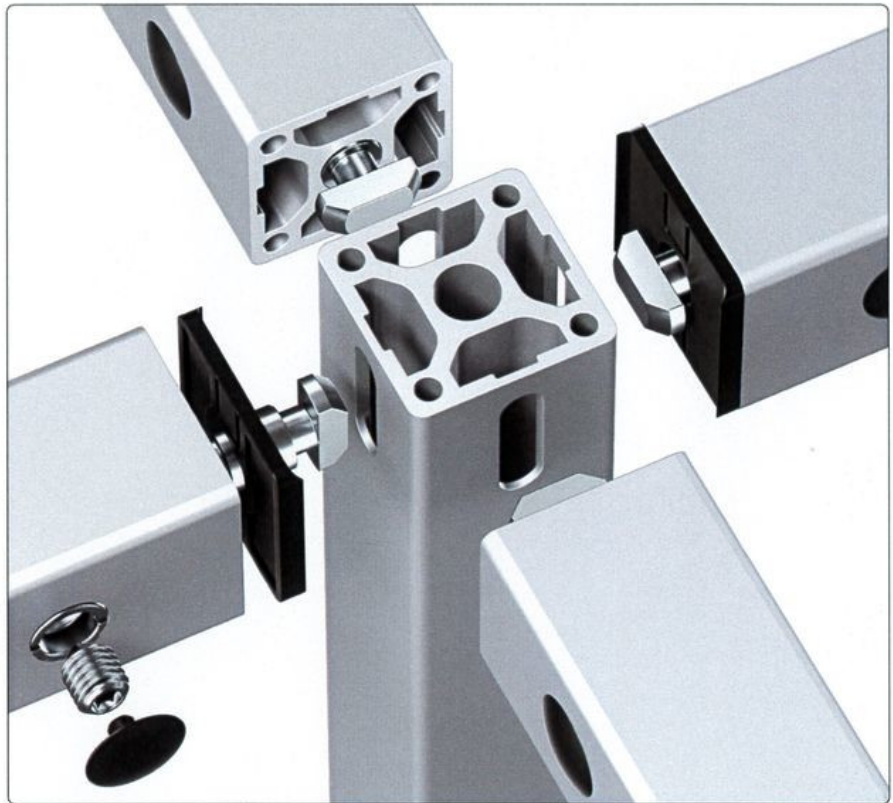


Description	S	Weight	Article-No.
Connector screw, self-cutting, F, S12.8, light		25.0 g	1.21.VSFS128L
Connector screw, self-cutting, F, S12.6, heavy		25.0 g	1.21.VSFS126S



Description	S	Weight	Article-No.
Connector screw, self-cutting, E, S12.8, light		31.5 g	1.21.VSES128L
Connector screw, self-cutting, E, S12.6, heavy		31.5 g	1.21.VSES126S

Connection of 0-slot profiles



Comments

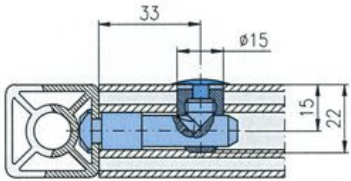
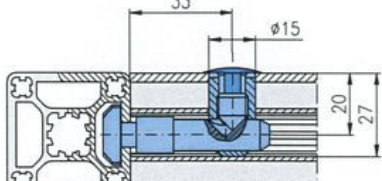
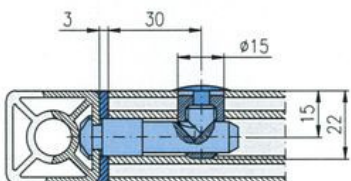
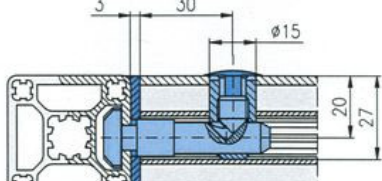
Connector ➔ 1.2A

Connector - drill dimensions

without radius covers

with radius covers

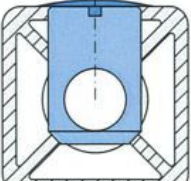
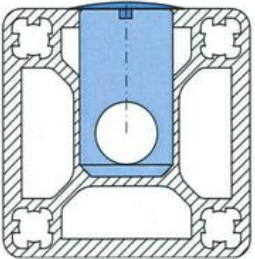
➔ 1.43

PG 30	PG 40
 Drill dimensions without radius covers	 Drill dimensions without radius covers
 Drill dimensions with radius covers	 Drill dimensions with radius covers

Cover plug

for connector cross bushings

➔ 1.42

PG 30	PG 40
	

Specification of milling patterns for closed profiles

VB□□□ / □□□□-□□.□ Key

VB□□□ / □□□□-□□.□ Shortcut for "Verbinder-Bohrung"

VB□□□ / □□□□-□□.□ Specification of the milling pattern ¹⁾

VB□□□ / □□□□-□□.□ Number of pattern elements ²⁾

VB□□□ / □□□□-□□.□ Direction of the profile side ➡ 1.55

VB□□□ / □□□□-□□.□ Distance of the reference point to the left end of the profile [mm]

VB□□□ / □□□□-□□.□ Angle of the connection (in case of VB3 or VB4)

¹⁾ 1 = "T" shape milling pattern for standard connector (Standard)

➡ 2.36

2 = upside-down "T" shape milling pattern for standard connector

➡ 2.37

5 = elongated hole for connection

- with standard connectors ➡ 2.38

- with T-Nuts ➡ 2.39

6 = half circle for miter 3-way connection ➡ 2.40

²⁾ Specification with "A", "B", "C", same as for the amount of cross
bushing bores ➡ 1.54

Mounting variation

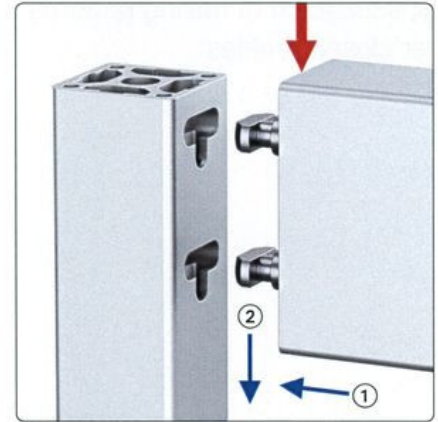
for profiles with 1 or more connectors, if the profile cannot be rotated

for high sliding load



Comments

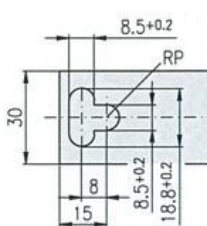
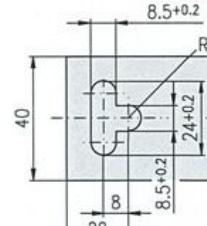
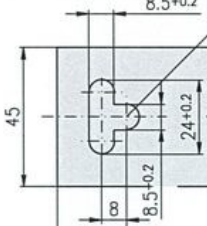
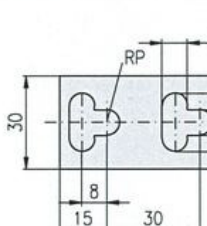
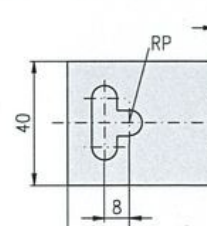
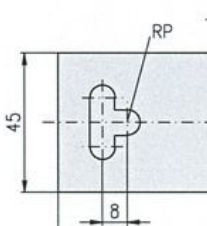
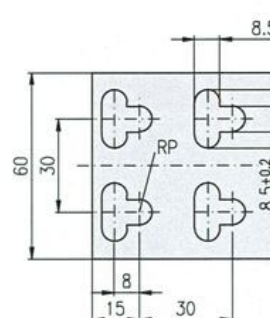
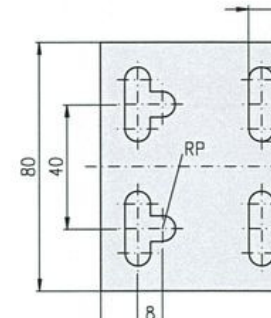
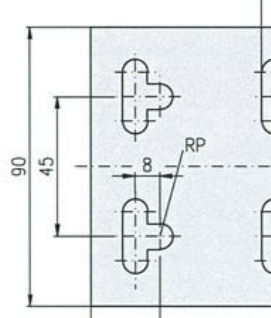
Position of assembly: profiles flush on the top



Assembly

- ① insert connector
- ② push profile to the bottom

Fabrication measurements

PG 30	PG 40	PG 45
 For fastening of profile 30×30	 For fastening of profile 40×40	 For fastening of profile 45×45
Machining data VB1A□/□□□□		
 For fastening of profile 30×60	 For fastening of profile 40×80	 For fastening of profile 45×90
Machining data VB1B□/□□□□		
 For fastening of profile 60×60	 For fastening of profile 80×80	 For fastening of profile 90×90
Machining data VB1D□/□□□□		

RP = Reference point; Definition of machining data ➔ 2.35

Mounting variation

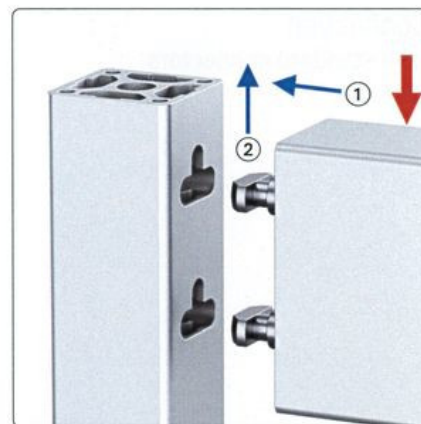
for profiles with 1 or more connectors, if the profile cannot be rotated

for high flexure load



Comments

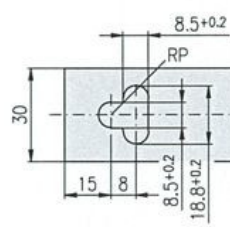
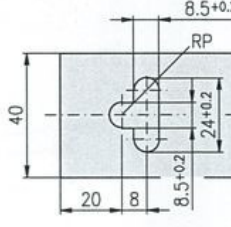
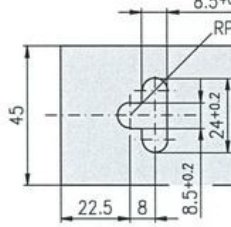
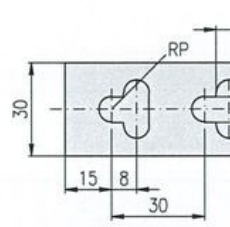
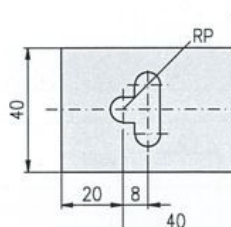
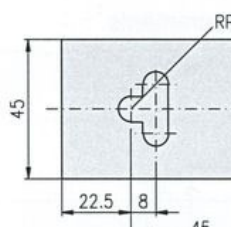
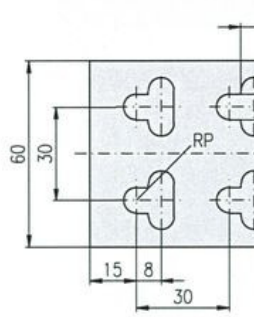
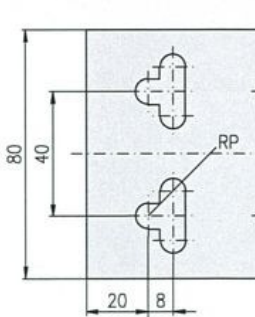
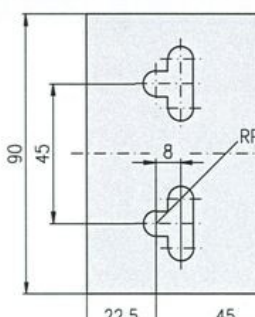
Position of assembly: profiles flush on the top



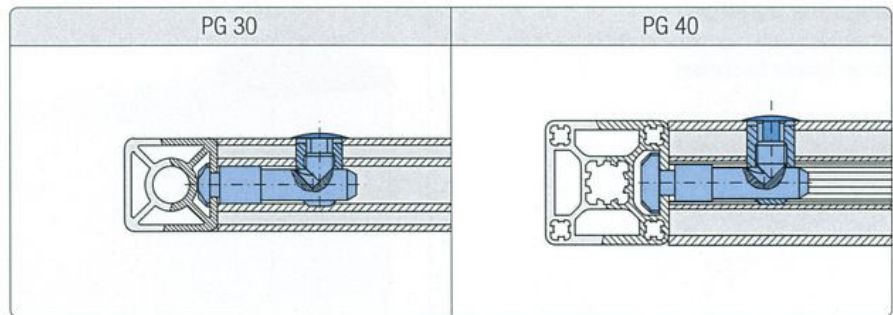
Assembly

- ① insert connector
- ② push profile to the top

Fabrication measurements

PG 30	PG 40	PG 45
 For fastening of profile 30×30	 For fastening of profile 40×40	 For fastening of profile 45×45
Machining data VB2A□/□□□□		
 For fastening of profile 30×60	 For fastening of profile 40×80	 For fastening of profile 45×90
Machining data VB2B□/□□□□		
 For fastening of profile 60×60	 For fastening of profile 80×80	 For fastening of profile 90×90
Machining data VB2D□/□□□□		

Connection with standard connectors



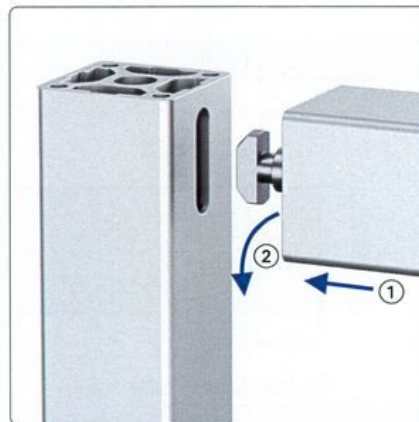
Single parts

Connector, standard 1.21.3F1 (V)
Connector, standard 90° 1.21.3F2 (V)

Single parts

Connector, standard 1.21.4E1 (V)
Connector, standard 90° 1.21.4E2 (V)

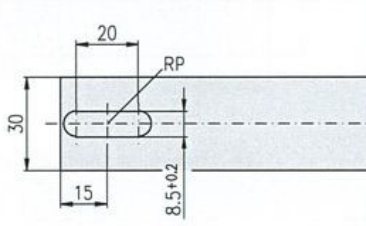
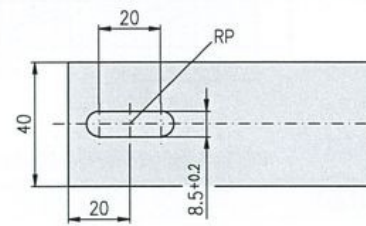
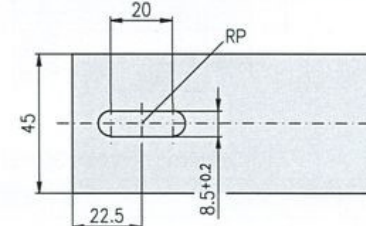
Mounting variation for profiles with 1 connector



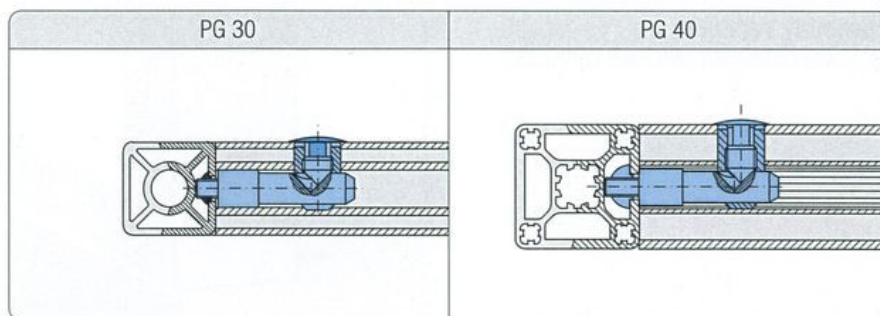
Assembly

- ① insert connector
- ② turn profile

Fabrication measurements

PG 30	PG 40	PG 45
 For fastening of profile 30×30	 For fastening of profile 40×40	 For fastening of profile 45×45
Machining data VB5A□/□□□□		

Connection with screw-type connectors



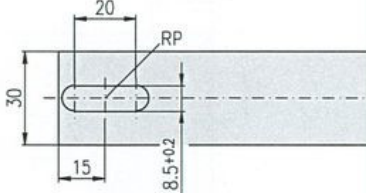
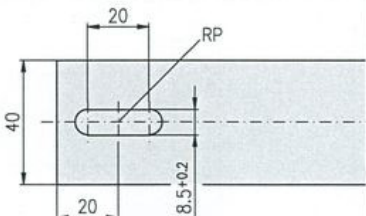
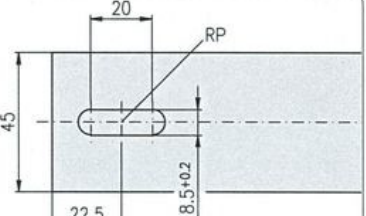
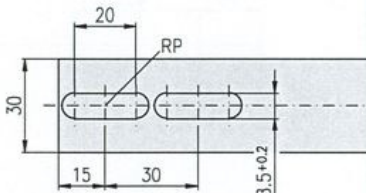
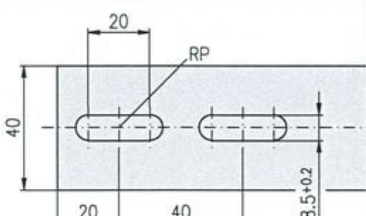
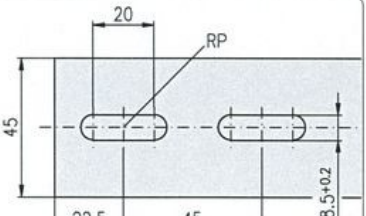
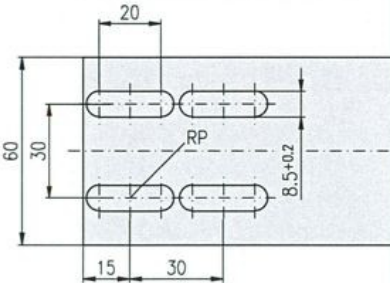
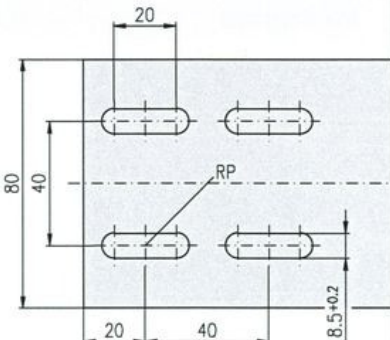
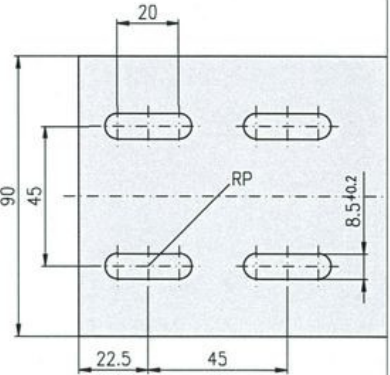
Single parts

- Screw-type connector 1.21.30S1M8/7 (V)
- T-Nut for subsequent insertion, with spring, F 1.32.4FM8 (V)

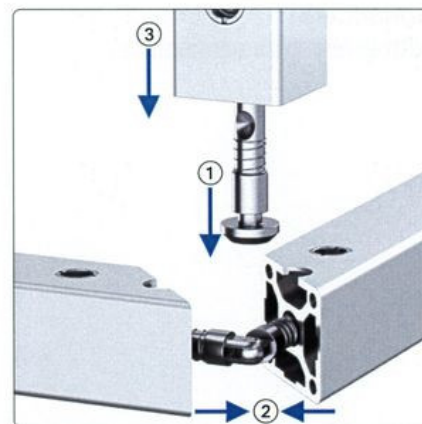
Single parts

- Screw-type connector 1.21.4S1M8/11 (V)
- T-Nut for subsequent insertion, with spring, E 1.32.4EM8 (V)

Fabrication measurements

PG 30	PG 40	PG 45
 For fastening of profile 30×30	 For fastening of profile 40×40	 For fastening of profile 45×45
Machining data VB5A□/□□□□		
 For fastening of profile 30×60	 For fastening of profile 40×80	 For fastening of profile 45×90
Machining data VB5B□/□□□□		
 For fastening of profile 60×60	 For fastening of profile 80×80	 For fastening of profile 90×90
Machining data VB5D□/□□□□		

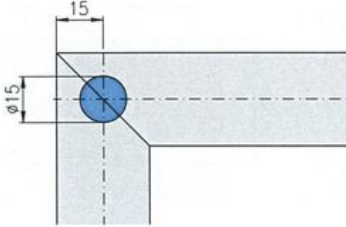
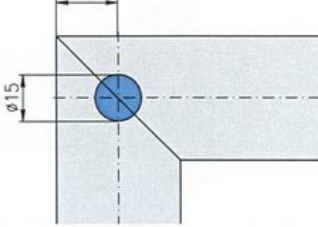
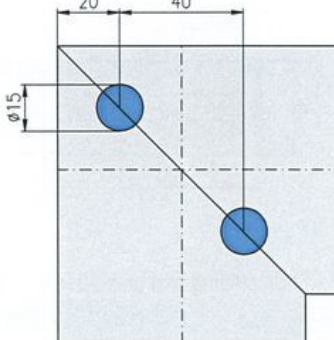
Assembly variation for 3-way connection with miter connectors



Assembly

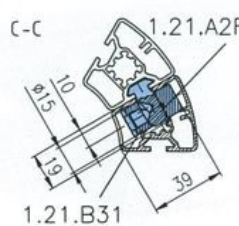
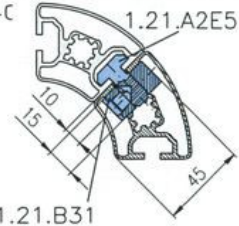
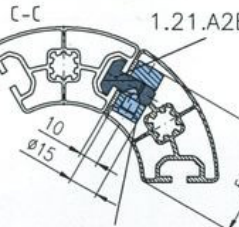
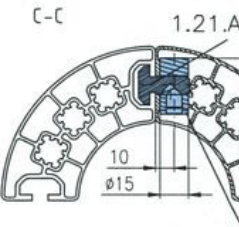
- ① Capture anchor head between profiles
- ② Ease profiles together
- ③ Tighten anchors joining profile

Fabrication measurements

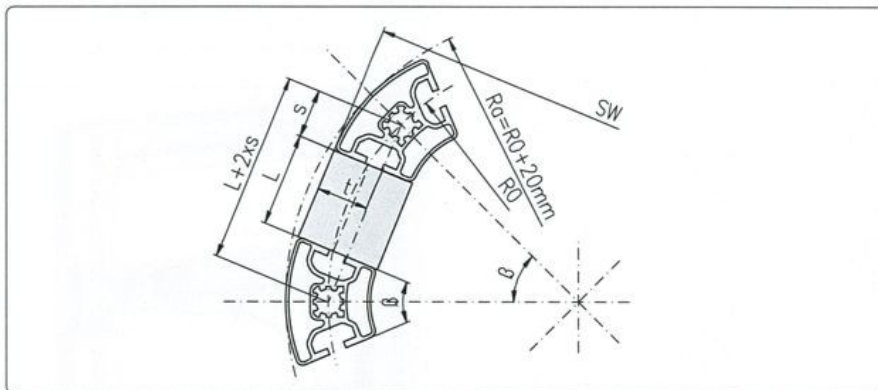
PG 30	PG 40
 For fastening of profile 30×30	 For fastening of profile 40×40
Machining data	
VB6A□/□□□□-□□.□	
 For fastening of profile 80×80	
Machining data	
VB6B□/□□□□-□□.□	

Connection of profiles 40, round



Drill dimensions for profiles 40, round			
30°		45°	
60°		90°	

Calculation formulas for polygons



known	searched	Profile 40, round 30° ($\beta = 30^\circ$)	Profile 40, round 45° ($\beta = 45^\circ$)	Profile 40, round 60° ($\beta = 60^\circ$)
		t = 22.04 s = 15.53	t = 24.57 s = 22.96	t = 28.04 s = 30.00
R_0	L =	$R_0 \times 0,51764 - 31,06$	$R_0 \times 0,76537 - 45,92$	$R_0 - 60$
R_a	L =	$(R_a - 20) \times 0,51764 - 31,06$	$(R_a - 20) \times 0,76537 - 45,92$	$R_a - 80$
SW	L =	$\frac{SW - 44,08}{\sqrt{3,73205}} \times 0,51764 - 31,06$	$\frac{SW - 49,14}{\sqrt{3,4142}} \times 0,76537 - 45,92$	$\frac{SW - 56,08}{\sqrt{3}} - 60$
SW	$R_0 =$	$\frac{SW - 44,08}{\sqrt{3,73205}}$	$\frac{SW - 49,14}{\sqrt{3,4142}}$	$\frac{SW - 56,08}{\sqrt{3}}$
SW	$R_a =$	$\frac{SW - 44,08}{\sqrt{3,73205}} + 20$	$\frac{SW - 49,14}{\sqrt{3,4142}} + 20$	$\frac{SW - 56,08}{\sqrt{3}} + 20$
R_0	SW =	$\sqrt{(R_0 \times 2)^2 - (R_0 \times 0,51764)^2 + 44,08}$	$\sqrt{(R_0 \times 2)^2 - (R_0 \times 0,76537)^2 + 49,14}$	$\sqrt{(R_0 \times 2)^2 - R_0^2 + 56,08}$
R_a	SW =	$\sqrt{((R_a - 20) \times 2)^2 - ((R_a - 20) \times 0,51764)^2 + 44,08}$	$\sqrt{((R_a - 20) \times 2)^2 - ((R_a - 20) \times 0,76537)^2 + 49,14}$	$\sqrt{((R_a - 20) \times 2)^2 - R_a^2 + 56,08}$

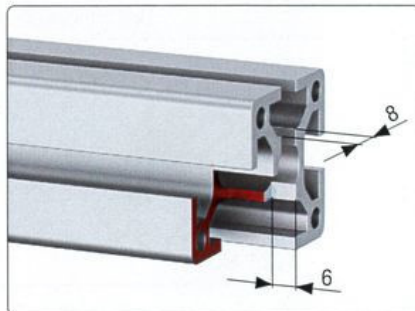
Subsequent mounting of profiles



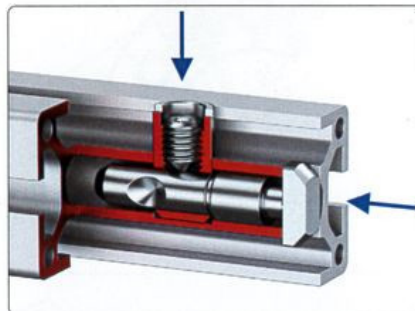
Step by step instruction for subsequent mounting of profiles with two standard connections for all profile groups

For the subsequent mounting of the profile:

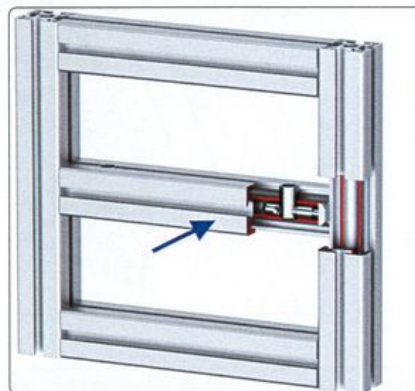
1. Mill on both ends a slot size of 6×8 mm.



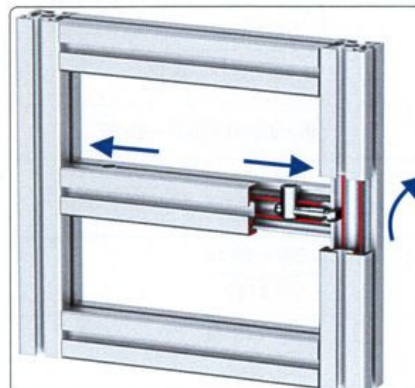
2. Mount connector and fix anchor in front position with setscrew.



3. Mount profile.



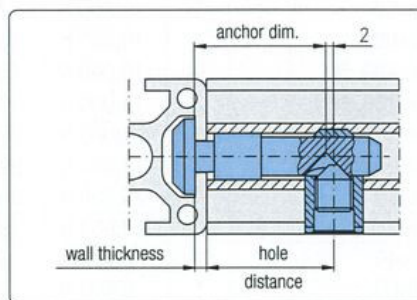
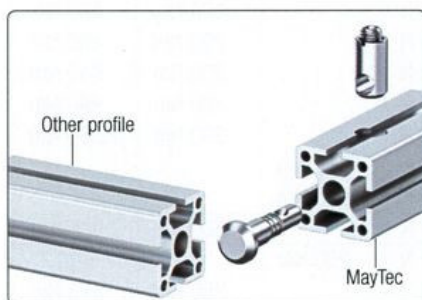
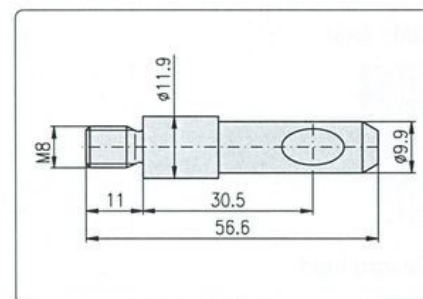
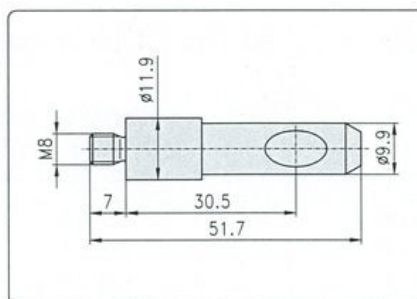
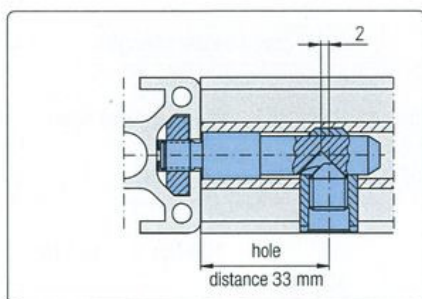
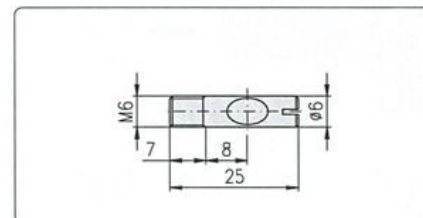
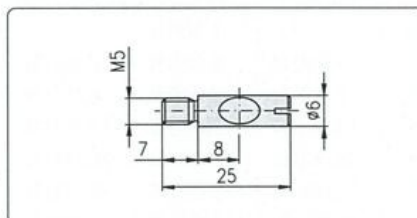
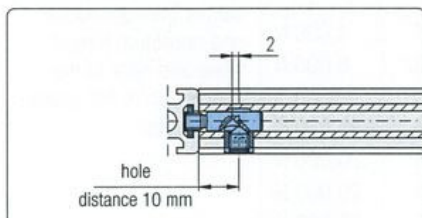
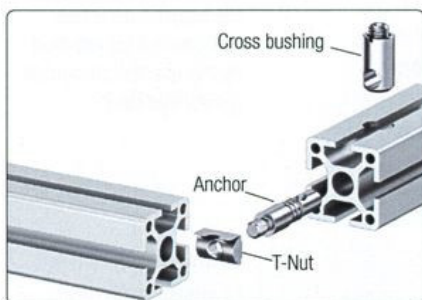
4. Loosen setscrew.
Due to the compressing spring the anchor is pushed into the slot.
Turn anchor by 90° with screw driver.
Fasten setscrew.



Connection of MayTec with other profile systems

MayTec profiles can easily be combined with other profile systems.

With the MayTec Screw-type connector and the T-Nut of the other profile system



With the MayTec Standard-connector two points have to be considered:

1. Anchor head-form and size

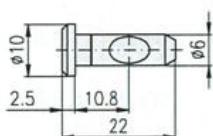
The MayTec system provides 3 anchor head sizes. If any of the sizes don't fit into the slots of other profile systems, the anchor head can be made to fit as required.

2. Hole distance

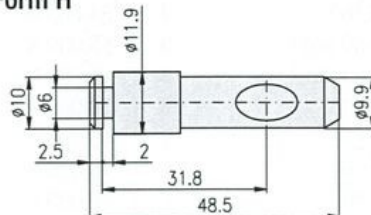
During the machining of the cross bore the hole distance has to match the wall thickness of the profile.

$$\text{hole distance} = \text{anchor dim.} - \text{wall thickness} + 2 \text{ mm}$$

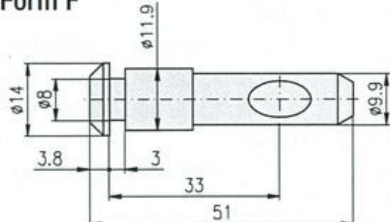
Form H



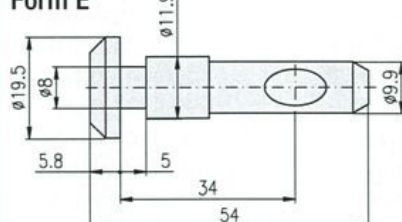
Form H



Form F



Form E



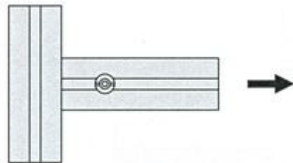
Torque tightening values for connector setscrew

PG	Slot	Setscrew special execution	Torque value	
			recommended	max.
20	H	M6×8	5.0 Nm	6.0 Nm
	F	M8×10	15.0 Nm	20.0 Nm
30	F	M10×12	25.0 Nm	30.0 Nm
40	E	M10×12	30.0 Nm	40.0 Nm
45	E	M10×12	30.0 Nm	40.0 Nm
50	E	M10×12	30.0 Nm	40.0 Nm
60	E	M10×12	30.0 Nm	40.0 Nm

Comments

The max. tightening values are only valid for the MayTec setscrew and can not be reached by the usual commercial quality standard.

Tension load

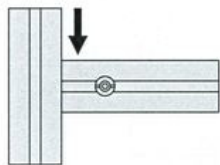


PG	Slot	max. Tensile strength				
		Standard	Connector		T-Nut	
			Universal	Square head		
20	H	-	1,500 N	-	M4	4,000 N
	F	5,000 N	6,000 N	8,000 N	M8	8,000 N
30	F	5,000 N	6,000 N	8,000 N	M8	8,000 N
40	E	10,000 N	12,000 N	12,000 N	M8	12,000 N
45	E	15,000 N	18,000 N	20,000 N	M8	20,000 N
50	E	15,000 N	18,000 N	20,000 N	M8	20,000 N
60	E	15,000 N	18,000 N	20,000 N	M8	20,000 N

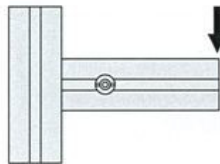
Comments

All values given have been tested with pretension of the connectors and maximum torque value and refer to the connection of two identical profiles.

Slide load



Flexure load



PG	Profile	Slot	Pcs	max. Slide strength		max. Flexure strength		
				Standard, Universal, Square head	E-connector (Standard, Universal)	Connector		
						Standard, Universal, Square head		
20	20×20	H	1	1,500 N	-	50 Nm		
	20×40		2	3,000 N	-		100 Nm	150 Nm
	40×40		4	6,000 N	-	300 Nm		
	20×30	F	1	5,000 N	7,500 N			65 Nm
30	30×30	F	1	5,000 N	7,500 N	100 Nm		
	30×50		1	5,000 N	7,500 N		100 Nm	160 Nm
	30×60		2	10,000 N	15,000 N		200 Nm	400 Nm
	30×100, 5F		2	10,000 N	15,000 N		200 Nm	640 Nm
	30×100, 8F		3	15,000 N	22,500 N		300 Nm	960 Nm
	30×150, 8F		3	15,000 N	22,500 N		300 Nm	1,500 Nm
	60×60 angle		3	15,000 N	22,500 N	500 Nm		
	60×60		4	20,000 N	30,000 N	800 Nm		
	30×150	E	2	12,000 N	18,000 N		500 Nm	2,000 Nm
40	40×40	E	1	6,000 N	9,000 N	250 Nm		
	40×60		1	6,000 N	9,000 N		250 Nm	375 Nm
	40×80		2	12,000 N	18,000 N		500 Nm	1,000 Nm
	40×120		3	18,000 N	27,000 N		750 Nm	2,250 Nm
	40×160		4	24,000 N	36,000 N		1,000 Nm	4,000 Nm
	80×80 angle		3	18,000 N	27,000 N	1,250 Nm		
	80×80, 8E		4	24,000 N	36,000 N	2,000 Nm		
	80×120		6	36,000 N	54,000 N		3,000 Nm	4,500 Nm
	120×120	E	8	48,000 N	72,000 N	6,000 Nm		
	80×160		8	48,000 N	72,000 N		4,000 Nm	8,000 Nm
45	45×45	E	1	6,000 N	9,000 N	360 Nm		
	45×60		1	6,000 N	9,000 N		360 Nm	480 Nm
	45×90		2	12,000 N	18,000 N		720 Nm	1,440 Nm
	90×90		4	24,000 N	36,000 N	2,880 Nm		
50	50×50	E	1	6,000 N	9,000 N	400 Nm		
	50×100, 6E		2	12,000 N	18,000 N		800 Nm	1,600 Nm
	50×100, 8E		3	18,000 N	27,000 N		1,200 Nm	2,400 Nm
	50×150		3	18,000 N	27,000 N		1,200 Nm	3,600 Nm
	100×100		4	24,000 N	36,000 N	3,200 Nm		
	100×200		8	48,000 N	72,000 N		6,400 Nm	12,800 Nm
60	60×60	E	1	6,000 N	9,000 N	480 Nm		
	60×90		2	12,000 N	18,000 N		960 Nm	1,440 Nm

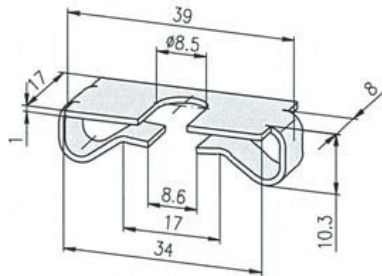
The listed values are valid
for all light and heavy
profiles

Anti-twist devices



Technical data

material: steel
surface: galvanised



Description

Anti-twist device for connector

Weight

11 g

Article-No.

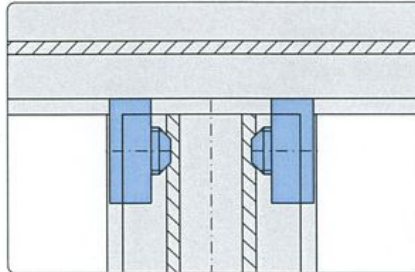
1.29.11240

Anti-twist devices

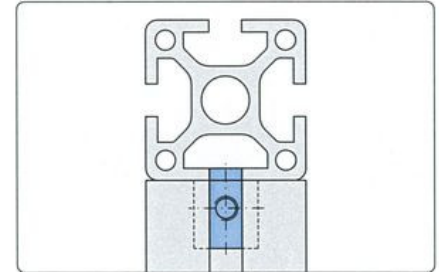


Application

In the case of high torque forces with connections of one connector only, twisting can be prevented by mounting 1 or 2 anti-twist devices.



The nose of the anti-twist device fits into the basic profile.

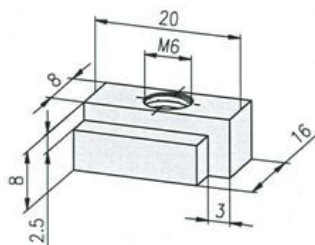
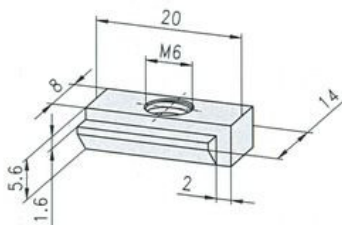


Technical data

material: steel
surface: galvanised
max. moment of torque: $M_{A, max}$

Fastening elements

F-slot:
Setscrew M6×8 1.20.G0608
E-slot:
Setscrew M6×12 1.20.G0612



Description	G	$M_{A, max}$	Weight	Article-No.
Anti-twist device F	M6	10 Nm	7.3 g	1.29.321.FM6

Description	G	$M_{A, max}$	Weight	Article-No.
Anti-twist device E	M6	10 Nm	14 g	1.29.321.EM6

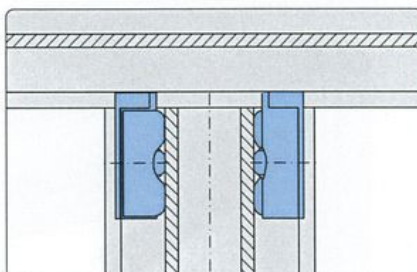
Anti-twist devices for subsequent insertion



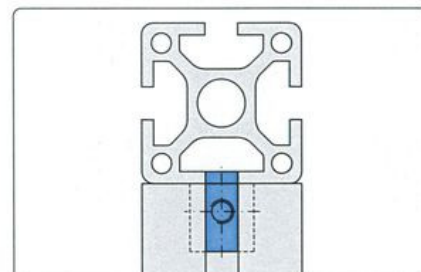
Application

In the case of high torque forces with connections of one connector only, twisting can be prevented by mounting 1 or 2 anti-twist devices.

- for subsequent insertion

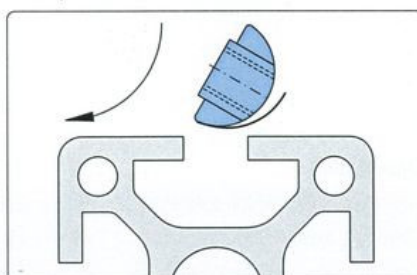


The nose of the anti-twist device fits into the basic profile.



Technical data

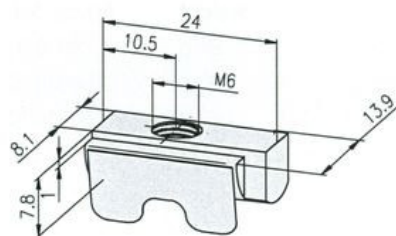
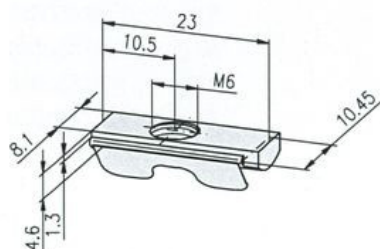
material: steel
surface: galvanised
max. moment of torque: $M_{A, \max}$



Insert front-sided and rotate

Fastening elements

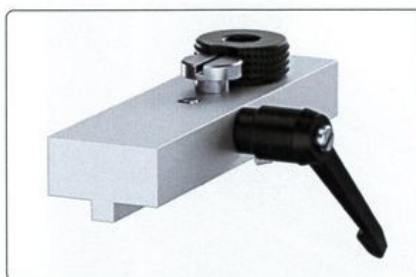
F-slot:
Setscrew ISO 4026 M6×8 1.20.G0608
E-slot:
Setscrew ISO 4026 M6×12 1.20.G0612



Description	G	$M_{A, \max}$	Weight	Article-No.
Anti-twist device F	M6 for subsequent insertion	10 Nm	7.3 g	1.29.324.FM6

Description	G	$M_{A, \max}$	Weight	Article-No.
Anti-twist device E	M6 for subsequent insertion	10 Nm	14 g	1.29.324.EM6

Clamping levers



Clamping lever for drill jigs



Clamping lever for connector

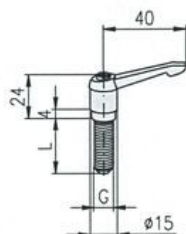
Application

Any MayTec connector can be equipped with a clamping lever.
For frequent opening and closing

Technical data

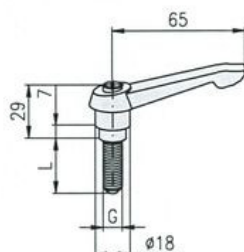
clamping handle:	PA-glass-fiber reinf.
clamping lever:	with ratchet lever handle
annular gear:	die casted zinc
thread:	steel

Clamping levers 40 for connector



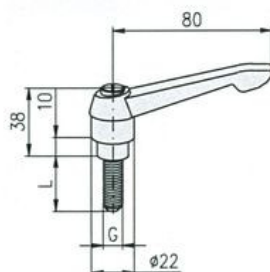
Description	G	L	Weight	Article-No.
Clamping lever 40 for connector	M6	20	17 g	1.29.500620
Clamping lever 40 for connector	M8	20	21 g	1.29.500820
Clamping lever 40 for connector	M10	20	24 g	1.29.501020
Clamping lever 40 for connector	M10	30	29 g	1.29.501030

Clamping levers 65 for connector



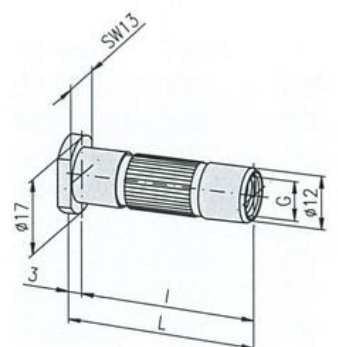
Description	G	L	Weight	Article-No.
Clamping lever 65 for connector	M6	20	36 g	1.29.650620
Clamping lever 65 for connector	M8	20	41 g	1.29.650820
Clamping lever 65 for connector	M8	30	43 g	1.29.650830
Clamping lever 65 for connector	M10	20	44 g	1.29.651020
Clamping lever 65 for connector	M10	30	49 g	1.29.651030

Clamping levers 80 for connector

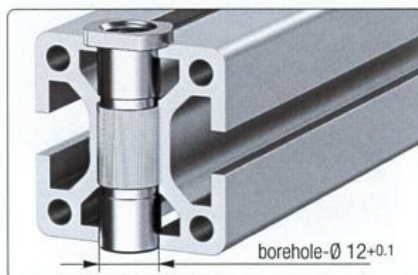


Description	G	L	Weight	Article-No.
Clamping lever 80 for connector	M8	20	64 g	1.29.800820
Clamping lever 80 for connector	M10	20	65 g	1.29.801020
Clamping lever 80 for connector	M10	30	70 g	1.29.801030

Press-fit threaded inserts for screw connections across the profile



16 20 30 40 45 50 60



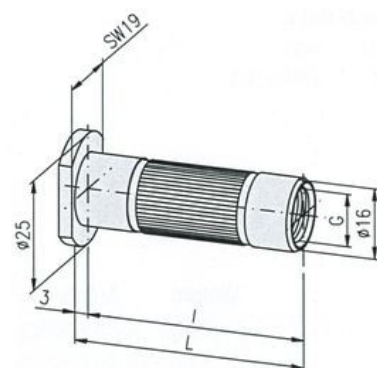
Application

For screw connections across the profile;
for cross section of
20 mm / 30 mm / 40 mm / 45 mm / 50 mm

Technical data

material: steel
surface: galvanised

Description	G	L	I	Weight	Article-No.
Press-fit threaded insert	Ø12/M8	22.5	19.5	15 g	1.35.608195
Press-fit threaded insert	Ø12/M8	32.5	29.5	20 g	1.35.608295
Press-fit threaded insert	Ø12/M8	42.5	39.5	26 g	1.35.608395
Press-fit threaded insert	Ø12/M8	47.5	44.5	28 g	1.35.608445
Press-fit threaded insert	Ø12/M8	52.5	49.5	31 g	1.35.608495
Press-fit threaded insert	Ø12/M10	22.5	19.5	11 g	1.35.610195
Press-fit threaded insert	Ø12/M10	32.5	29.5	15 g	1.35.610295
Press-fit threaded insert	Ø12/M10	42.5	39.5	18 g	1.35.610395
Press-fit threaded insert	Ø12/M10	47.5	43.5	20 g	1.35.610445
Press-fit threaded insert	Ø12/M10	52.5	49.5	22 g	1.35.610495



16 20 30 40 45 50 60



Application

For screw connections across the profile for
cross section of
30 mm / 40 mm / 45 mm / 50 mm

Technical data

material: steel
surface: galvanised

Description	G	L	I	Weight	Article-No.
Press-fit threaded insert	Ø16/M14	32.5	29.5	25 g	1.35.614295
Press-fit threaded insert	Ø16/M14	42.5	39.5	30 g	1.35.614395
Press-fit threaded insert	Ø16/M14	47.5	44.5	32 g	1.35.614445
Press-fit threaded insert	Ø16/M14	52.5	49.5	35 g	1.35.614495

1.3 Fastening elements



Threaded plates
➡ 3.04



Threaded plates
for subs. insertion
➡ 3.05



Threaded plates
heavy
➡ 3.06



T-Nuts
➡ 3.07



T-Nuts
for subs. insertion
➡ 3.08 - 3.10



Spring-nuts
front-sided insertion
➡ 3.11



T-slot nuts
➡ 3.12



Rhomboid T-slot nuts
with self-locking
➡ 3.13



T-Bolts
front-sided insertion
➡ 3.14



Threaded inserts
➡ 3.15 - 3.16



Press-fit
threaded inserts
➡ 3.17 - 3.18

Description			Assembly		Fixation	Thread	Article-No. for fastening element for							
			H-slot	F-slot			E-slot	H-slot		F-slot		E-slot		
								steel	VA	steel	VA	steel		VA
Threaded plates						leaf spring	M3	1.31.HM3		1.31.FM3		1.31.EM3		3.04
						M4	1.31.HM4		1.31.FM4		1.31.EM4			
						M5	1.31.HM5		1.31.FM5		1.31.EM5			
						M6			1.31.FM6		1.31.EM6			
						M8					1.31.EM8			
- for subsequent insertion						-	M3	1.31.4HM3						3.05
						M4	1.31.4HM4							
						M5	1.31.4HM5							
- heavy						leaf spring	M6					1.31.6EM6		3.06
						M8					1.31.6EM8			
						leaf spring	2×M6					1.31.6E2M6		
						2×M8					1.31.6E2M8			
						-	M6					1.31.7EM6		
T-Nuts						leaf spring	M6			1.32.FM6		1.32.EM6		3.07
- with spring						M8			1.32.FM8		1.32.EM8			
- for subs. insertion, with spring ball						spring ball	M4					1.32.3EM4		3.08
						M5					1.32.3EM5			
						M6					1.32.3EM6			
						M8					1.32.3EM8			
- for subs. insertion, with spring						leaf spring	M3			1.32.4FM3		1.32.4EM3		3.09
						M4			1.32.4FM4		1.32.4EM4	V		
						M5			1.32.4FM5		1.32.4EM5	V		
						M6			1.32.4FM6	V	1.32.4EM6	V		
						M8			1.32.4FM7	V	1.32.4EM8	V		
						leaf spring	2×M8					1.32.4E2M8.41		3.10
						leaf spring	2×M4			1.32.4F2M4.25		1.32.4E2M4.25		
Spring-nuts						compressing spring	M3			1.33.FM3		1.33.EM3		3.11
						M4			1.33.FM4		1.33.EM4			
						M5			1.33.FM5		1.33.EM5			
						M6			1.33.FM6		1.33.EM6			
T-slot nuts						-	M4			1.34.10FM4		1.34.10EM4		3.12
						M5			1.34.10FM5		1.34.10EM5			
						M6			1.34.10FM6		1.34.10EM6			
Rhomboid T-slot nuts						self-locking	M3					1.34.20EM3		3.13
						M4					1.34.20EM4			
						M5					1.34.20EM5			
						M6					1.34.20EM6			
T-Bolts						compressing spring	M6×20			1.34.FM62		1.34.EM62		3.14
						×30			1.34.FM63		1.34.EM63			
						M8×20			1.34.FM82		1.34.EM82			
						×25					1.34.EM825			
						×30			1.34.FM83		1.34.EM83			
						×40					1.34.EM84			

VA = stainless steel 1.4305

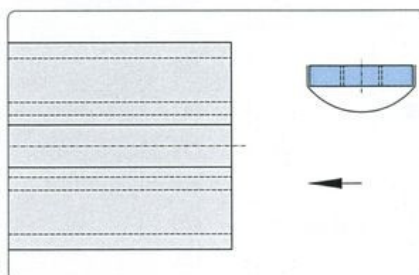
Threaded plates



Fixed into position with leaf spring

Application

Fastening element for screw-type connections

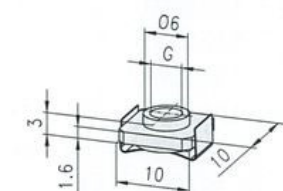


Assembly

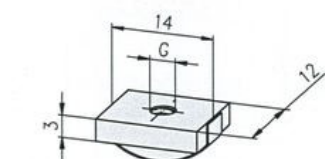
Insert from end

Technical data

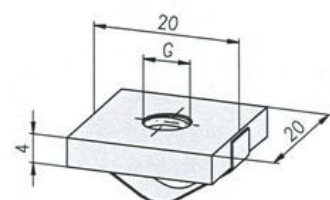
material: steel
surface: galvanised
max. moment of torque: $M_{A, \max}$



Description	G	$M_{A, \max}$	Weight	Article-No.
Threaded plate H	M3	1.3 Nm	1.5 g	1.31.HM3
Threaded plate H	M4	2.0 Nm	1.3 g	1.31.HM4
Threaded plate H	M5	2.0 Nm	1.2 g	1.31.HM5

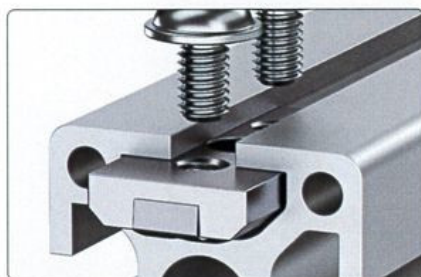


Description	G	$M_{A, \max}$	Weight	Article-No.
Threaded plate F	M3	1.3 Nm	3.9 g	1.31.FM3
Threaded plate F	M4	3.0 Nm	3.7 g	1.31.FM4
Threaded plate F	M5	5.0 Nm	3.6 g	1.31.FM5
Threaded plate F	M6	7.0 Nm	3.3 g	1.31.FM6



Description	G	$M_{A, \max}$	Weight	Article-No.
Threaded plate E	M3	1.3 Nm	12.0 g	1.31.EM3
Threaded plate E	M4	3.0 Nm	11.8 g	1.31.EM4
Threaded plate E	M5	5.0 Nm	11.6 g	1.31.EM5
Threaded plate E	M6	8.0 Nm	11.3 g	1.31.EM6
Threaded plate E	M8	15.0 Nm	11.0 g	1.31.EM8

Threaded plates heavy

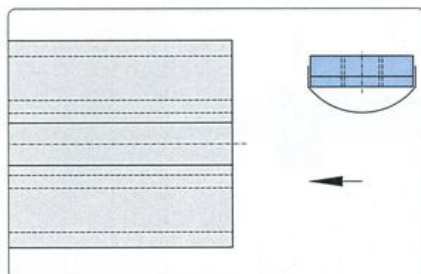


Fixed into position with leaf spring

Application

Fastening element for

- screw-type connections
- hinges, heavy, type 20, 21, 22, 23, 31

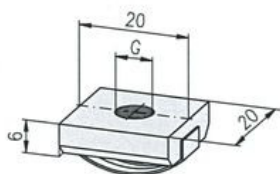


Assembly

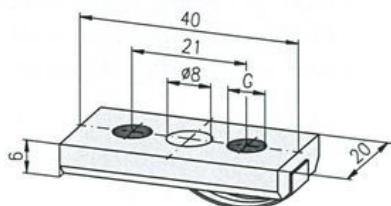
Insert from end

Technical data

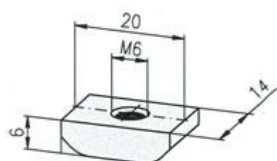
material: steel
surface: galvanised
max. moment of torque: $M_{A, \max}$



Description	G	$M_{A, \max}$	Weight	Article-No.
Threaded plate, heavy E	M6	10.0 Nm	17.2 g	1.31.6EM6
Threaded plate, heavy E	M8	26.0 Nm	16.3 g	1.31.6EM8



Description	G	$M_{A, \max}$	Weight	Article-No.
Threaded plate, heavy E	2×M6	10.0 Nm	33.8 g	1.31.6E2M6
Threaded plate, heavy E	2×M8	26.0 Nm	32.0 g	1.31.6E2M8



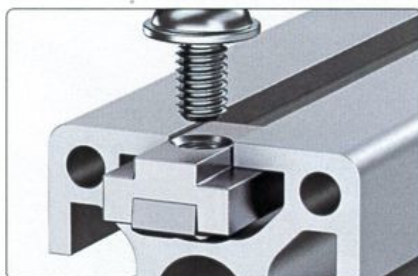
Application

Fastening element for ST-Connector
with anchor, screw-type ➔ 1.2D

Application sample ➔ Eco-Slide 1.67

Description	G	$M_{A, \max}$	Weight	Article-No.
Threaded plate, heavy E	M6	10.0 Nm	12.4 g	1.31.7EM6

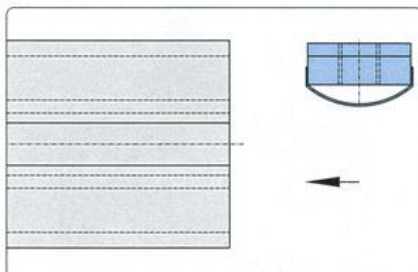
T-Nuts with spring



Fixing with leaf spring

Application

Fastening element for screw-type connections

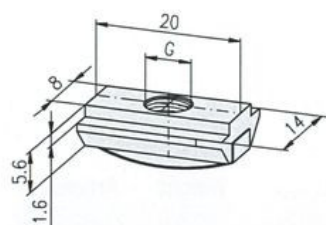


Assembly

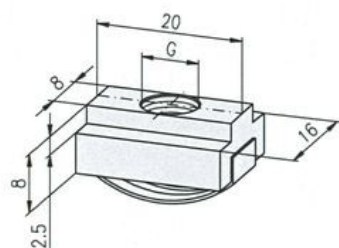
Insert from end

Technical data

material: steel
surface: galvanised
max. moment of torque: $M_{A, \max}$

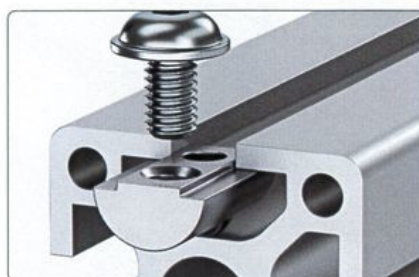


Description	G	$M_{A, \max}$	Weight	Article-No.
T-Nut with spring F	M6	10 Nm	7.0 g	1.32.FM6
T-Nut with spring F	M8	26 Nm	6.6 g	1.32.FM8



Description	G	$M_{A, \max}$	Weight	Article-No.
T-Nut with spring E	M6	10 Nm	15 g	1.32.EM6
T-Nut with spring E	M8	26 Nm	14 g	1.32.EM8

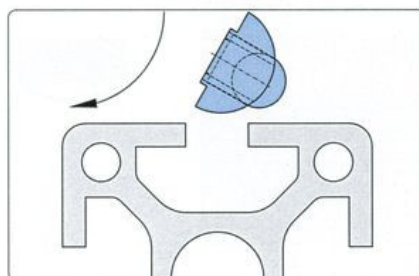
T-Nuts for subsequent insertion, with spring ball



Fixing with spring ball

Application

Fastening element for screw-type connections

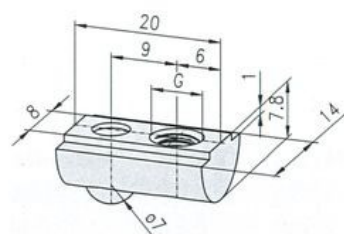


Assembly

Insert front-sided and rotate

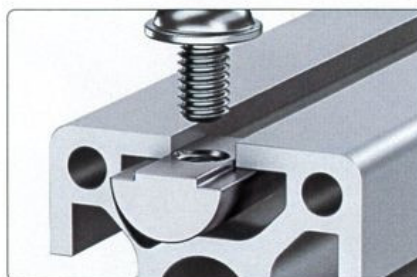
Technical data

material: steel
surface: galvanised
max. moment of torque: $M_{A, \max}$

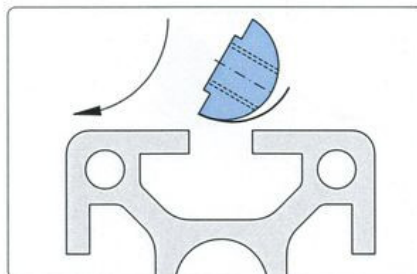


Description	G	$M_{A, \max}$	Weight	Article-No.
T-Nut for subs. insertion, w. spring ball E	M4	3.0 Nm	10.4 g	1.32.3EM4
T-Nut for subs. insertion, w. spring ball E	M5	5.0 Nm	10.2 g	1.32.3EM5
T-Nut for subs. insertion, w. spring ball E	M6	10.0 Nm	9.9 g	1.32.3EM6
T-Nut for subs. insertion, w. spring ball E	M8	26.0 Nm	9.6 g	1.32.3EM8

T-Nuts for subsequent insertion, with spring



Fixing with leaf spring



Insert front-sided and rotate

Application

Fastening element for screw-type connections

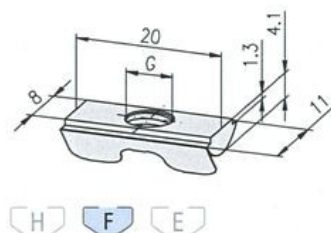
Technical data

Design steel:

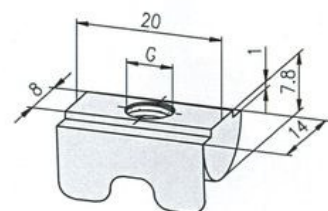
- material: steel
- surface: galvanised

Design stainless:

- material: stainless steel 1.4305
- surface: pickled and passivated

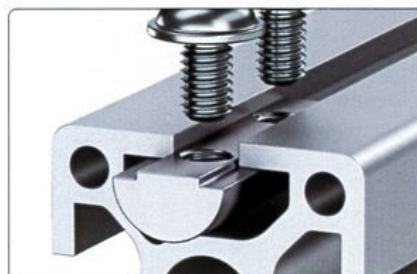
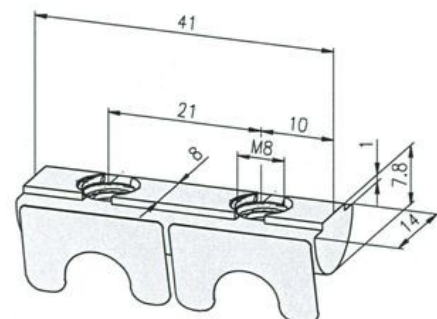
max. moment of torque: $M_{A, \max}$


Description	G	Design	$M_{A, \max}$	Weight	Article-No.
T-Nut for subs. ins., w. spring F	M3	steel	1.3 Nm	5.0 g	1.32.4FM3
T-Nut for subs. ins., w. spring F	M4	steel	3.0 Nm	4.9 g	1.32.4FM4
T-Nut for subs. ins., w. spring F	M5	steel	5.0 Nm	4.6 g	1.32.4FM5
T-Nut for subs. ins., w. spring F	M6	steel	10.0 Nm	4.3 g	1.32.4FM6
T-Nut for subs. ins., w. spring F	M8	steel	10.0 Nm	3.7 g	1.32.4FM8
T-Nut for subs. ins., w. spring F	M6	stainless	10.0 Nm	4.3 g	1.32.4FM6V
T-Nut for subs. ins., w. spring F	M8	stainless	10.0 Nm	3.7 g	1.32.4FM8V



Description	G	Design	$M_{A, \max}$	Weight	Article-No.
T-Nut for subs. ins., w. spring E	M3	steel	1.3 Nm	10.0 g	1.32.4EM3
T-Nut for subs. ins., w. spring E	M4	steel	3.0 Nm	10.0 g	1.32.4EM4
T-Nut for subs. ins., w. spring E	M5	steel	5.0 Nm	10.0 g	1.32.4EM5
T-Nut for subs. ins., w. spring E	M6	steel	10.0 Nm	10.0 g	1.32.4EM6
T-Nut for subs. ins., w. spring E	M8	steel	26.0 Nm	9.0 g	1.32.4EM8
T-Nut for subs. ins., w. spring E	M4	stainless	3.0 Nm	10.0 g	1.32.4EM4V
T-Nut for subs. ins., w. spring E	M5	stainless	5.0 Nm	10.0 g	1.32.4EM5V
T-Nut for subs. ins., w. spring E	M6	stainless	10.0 Nm	10.0 g	1.32.4EM6V
T-Nut for subs. ins., w. spring E	M8	stainless	26.0 Nm	9.0 g	1.32.4EM8V

3



Fixing with leaf spring

Application

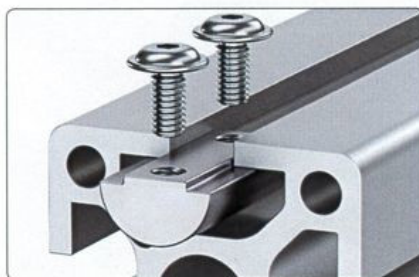
- Fastening element for
- screw-type connections
- hinges, heavy, type 20, 21, 31

Technical data

material: steel
surface: galvanised
max. moment of torque: $M_{A, \max}$

Description	G	$M_{A, \max}$	Weight	Article-No.
T-Nut for subs. ins., w. spring E	2×M8	26.0 Nm	20.3 g	1.32.4E2M8.41

T-Nuts for subsequent insertion, with spring



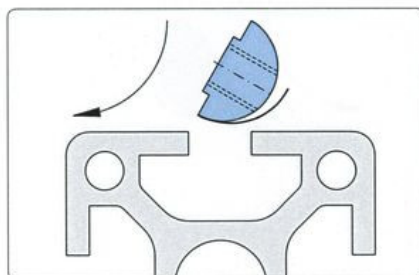
Fixing with leaf spring

Application

Fastening element for screw-type connections

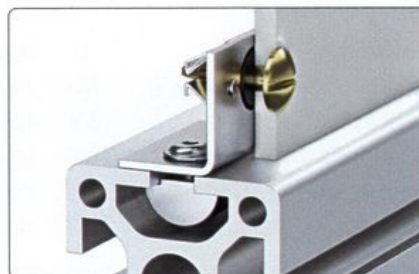
Technical data

material: steel
surface: galvanised
max. moment of torque: $M_{A, \max}$



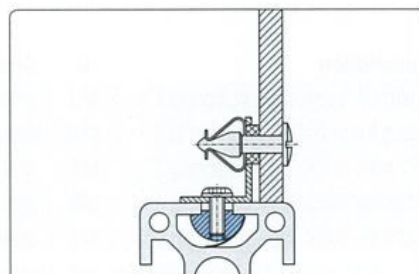
Assembly

Insert front-sided and rotate

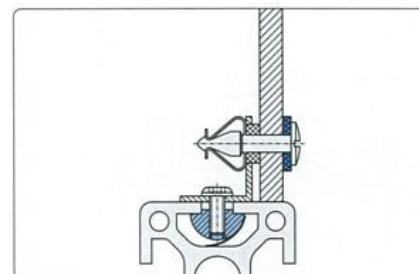


Application

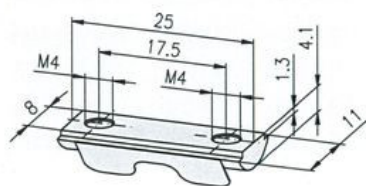
Fastening element for mounting angle, quick lock ➔ 6.33



Fastening without washer



Fastening with washer



Description

T-Nut for subs. ins., w. spring F

G

2×M4

 $M_{A, \max}$

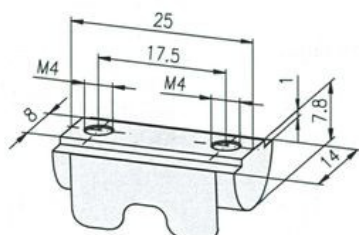
3.0 Nm

Weight

7.0 g

Article-No.

1.32.4F2M4.25



Description

T-Nut for subs. ins., w. spring E

G

2×M4

 $M_{A, \max}$

3.0 Nm

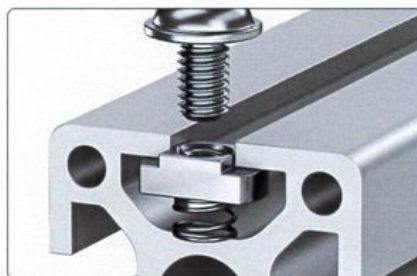
Weight

12.0 g

Article-No.

1.32.4E2M4.25

Spring-nuts front-sided insertion

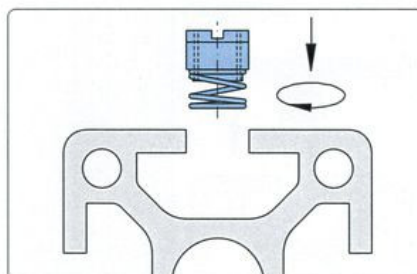


Fixing with compressing spring

Application

Fastening element for screw-type connections
Applicable for small loads such as:

- enclosures
- electric switches

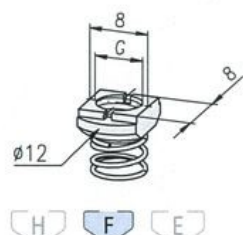


Assembly

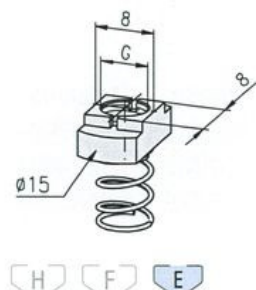
Insert front-sided and turn 90°

Technical data

material: steel
surface: galvanised
max. moment of torque: $M_{A, \max}$



H F E



H F E

Description	G	$M_{A, \max}$	Weight	Article-No.
Spring-nut F	M3	1.3 Nm	1.6 g	1.33.FM3
Spring-nut F	M4	3.0 Nm	1.5 g	1.33.FM4
Spring-nut F	M5	5.0 Nm	1.3 g	1.33.FM5
Spring-nut F	M6	8.0 Nm	1.1 g	1.33.FM6

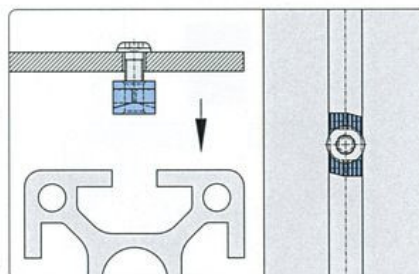
Description	G	$M_{A, \max}$	Weight	Article-No.
Spring-nut E	M3	1.3 Nm	3.9 g	1.33.EM3
Spring-nut E	M4	3.0 Nm	3.7 g	1.33.EM4
Spring-nut E	M5	5.0 Nm	3.4 g	1.33.EM5
Spring-nut E	M6	10.0 Nm	3.0 g	1.33.EM6

T-slot nuts



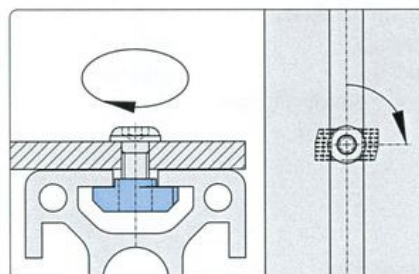
Application

Fastening element for screw-type connections

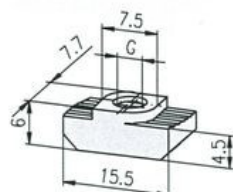
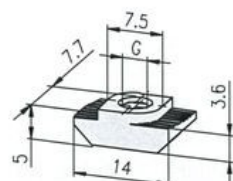


Assembly

Mount the T-slot nut onto the screw and insert into the slot



Rotate the screw with T-slot nut 90° inside and then fasten



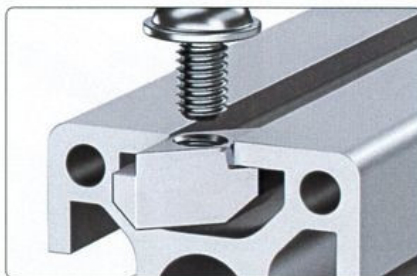
Technical data

material: GD-Zn
surface: galvanised
max. moment of torque: $M_{A, \max}$

Description	G	$M_{A, \max}$	Weight	Article-No.
T-slot nut F	M4	3.0 Nm	2.4 g	1.34.10FM4
T-slot nut F	M5	5.0 Nm	2.0 g	1.34.10FM5
T-slot nut F	M6	10.0 Nm	1.7 g	1.34.10FM6

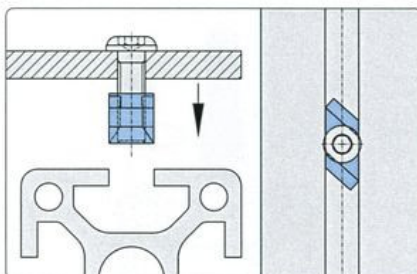
Description	G	$M_{A, \max}$	Weight	Article-No.
T-slot nut E	M4	3.0 Nm	3.6 g	1.34.10EM4
T-slot nut E	M5	5.0 Nm	3.2 g	1.34.10EM5
T-slot nut E	M6	10.0 Nm	3.0 g	1.34.10EM6

Rhomboid T-slot nuts with self-locking



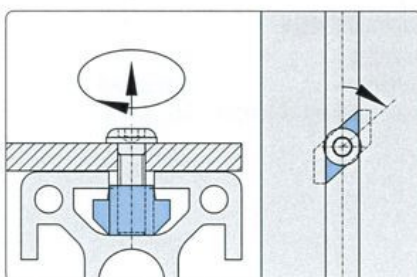
Application

For pre-assembly of threads in the profile slot

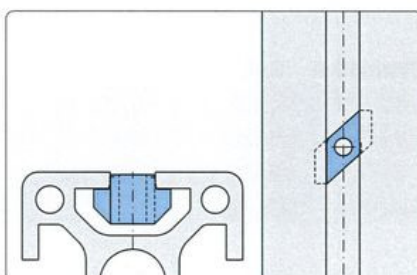


Assembly

Pre-assemble the rhomboid T-slot nut onto the screw, and insert into the slot



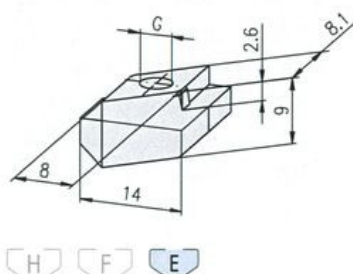
By tightening the screw, the rhomboid T-slot nut is turned 50° and jammed inside the slot with its conical flanks



Even after loosening the screw, the rhomboid T-slot nut will remain wedged in place

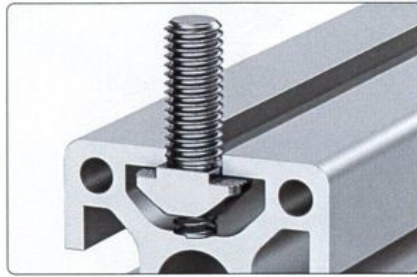
Technical data

material: GD-Zn
surface: galvanised
max. moment of torque: $M_{A, \max}$



Description	G	$M_{A, \max}$	Weight	Article-No.
Rhomboid T-slot nut E	M3	1.3 Nm	6.5 g	1.34.20EM3
Rhomboid T-slot nut E	M4	3.0 Nm	6.2 g	1.34.20EM4
Rhomboid T-slot nut E	M5	5.0 Nm	5.9 g	1.34.20EM5
Rhomboid T-slot nut E	M6	10.0 Nm	5.5 g	1.34.20EM6

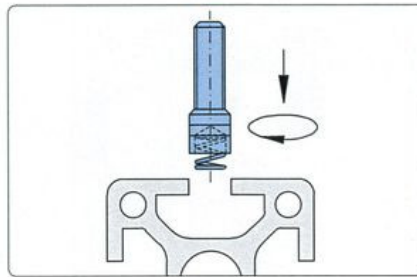
T-Bolts front-sided insertion



Fixing with compressing spring

Application

Fastening element for screw-type connections

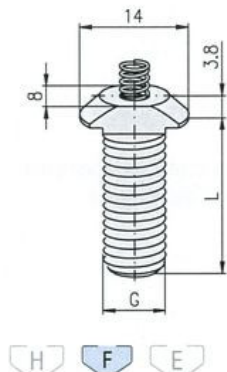


Assembly

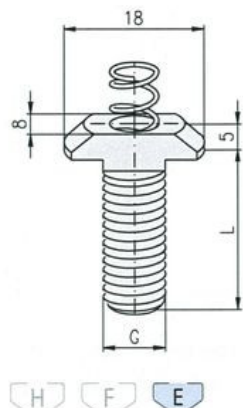
Insert front-sided and turn 90°

Technical data

material: steel
surface: galvanised
max. moment of torque: $M_{A, \max}$

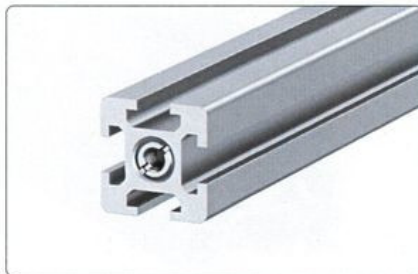
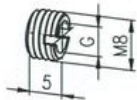


Description	G×L	$M_{A, \max}$	Weight	Article-No.
T-Bolt F	M6×20	6 Nm	6.0 g	1.34.FM62
T-Bolt F	M6×30	6 Nm	7.0 g	1.34.FM63
T-Bolt F	M8×20	15 Nm	8.0 g	1.34.FM82
T-Bolt F	M8×30	15 Nm	11.2 g	1.34.FM83



Description	G×L	$M_{A, \max}$	Weight	Article-No.
T-Bolt E	M6×20	6 Nm	9.0 g	1.34.EM62
T-Bolt E	M6×30	6 Nm	10.0 g	1.34.EM63
T-Bolt E	M8×20	18 Nm	12.0 g	1.34.EM82
T-Bolt E	M8×25	18 Nm	13.0 g	1.34.EM825
T-Bolt E	M8×30	18 Nm	14.0 g	1.34.EM83
T-Bolt E	M8×40	18 Nm	18.0 g	1.34.EM84

Threaded inserts for core hole Ø6



Application

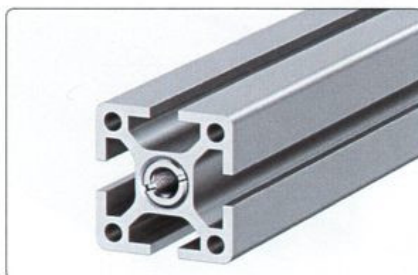
For mounting on front end and fastening of any profile with core hole Ø6

Technical data

material: steel
surface: galvanised

Description	G	Weight	Article-No.
Threaded insert	M8/M4	1.0 g	1.35.10804
Threaded insert	M8/M5	0.9 g	1.35.10805

for core hole Ø12

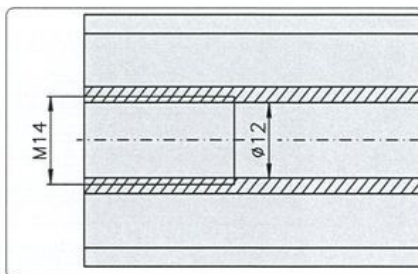


Application

For mounting on front end and fastening of any profile with core hole Ø12

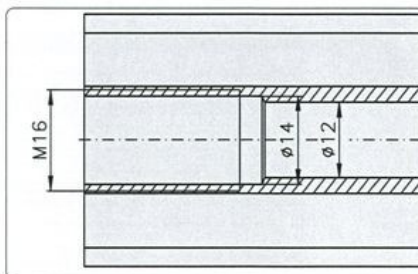
Technical data

material: steel
surface: galvanised



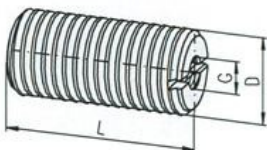
Assembly preparation for threaded insert M14/Mxx

- Tap M14 thread in core hole Ø12 mm



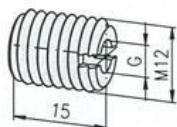
1) Assembly preparation for threaded insert M16/M12

- Drill Ø12 mm core hole to 14 mm
- Tap M16 thread in core hole Ø14 mm



Description	D/G	L	Weight	Article-No.
Threaded insert	M14/M6	15	11 g	1.35.1140615
Threaded insert	M14/M6	30	22 g	1.35.1140630
Threaded insert	M14/M8	15	9 g	1.35.1140815
Threaded insert	M14/M8	30	18 g	1.35.1140830
Threaded insert	M14/M10	15	6 g	1.35.1141015
Threaded insert	M14/M10	30	12 g	1.35.1141030
1) Threaded insert	M16/M12	15	8 g	1.35.1161215
1) Threaded insert	M16/M12	30	16 g	1.35.1161230

Threaded inserts for outer chambers PG 50, heavy



16 20 30 40 45 **50** 60



Application

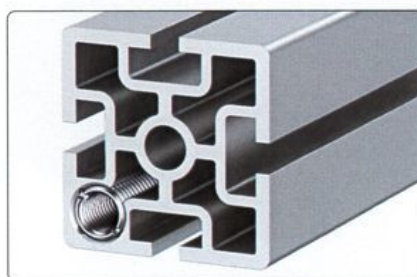
For mounting on front end via the outer chambers PG 50, heavy

Technical data

material: steel
surface: galvanised

Description	G	Weight	Article-No.
Threaded insert	M12/M4	8.6 g	1.35.11204
Threaded insert	M12/M5	8.0 g	1.35.11205
Threaded insert	M12/M6	7.3 g	1.35.11206
Threaded insert	M12/M8	5.5 g	1.35.11208

for outer chambers PG 60

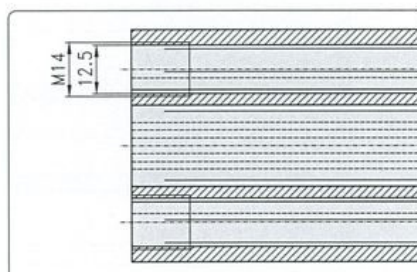


Application

For mounting on front end via the outer chambers PG 60

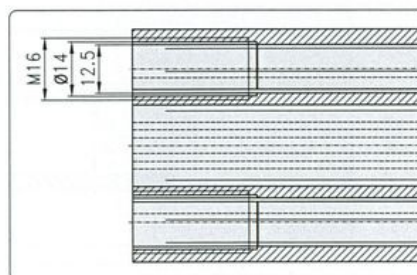
Technical data

material: steel
surface: galvanised



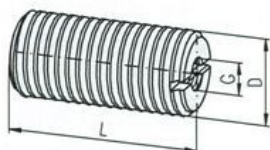
Assembly preparation for threaded insert M14/Mxx

- Tap M14 thread in outer chamber



1) Assembly preparation for threaded insert M16/M12

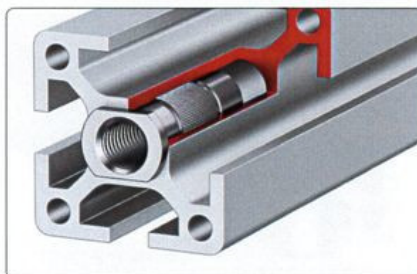
- Drill Ø12 mm outer chamber to 14 mm
- Tap M16 thread in borehole Ø14 mm



16 20 30 40 45 50 **60**

Description	D/G	L	Weight	Article-No.
Threaded insert	M14/M6	15	11 g	1.35.1140615
Threaded insert	M14/M6	30	22 g	1.35.1140630
Threaded insert	M14/M8	15	9 g	1.35.1140815
Threaded insert	M14/M8	30	18 g	1.35.1140830
Threaded insert	M14/M10	15	6 g	1.35.1141015
Threaded insert	M14/M10	30	12 g	1.35.1141030
1) Threaded insert	M16/M12	15	8 g	1.35.1161215
1) Threaded insert	M16/M12	30	16 g	1.35.1161230

Press-fit threaded inserts for core hole Ø12

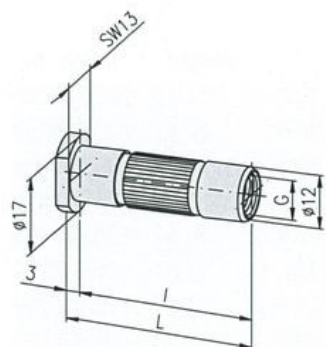


Application

For mounting on front end and fastening of any profile with core hole Ø12

Technical data

material: steel
surface: galvanised



16 20 30 40 45 50 60

Description	G	L	I	Weight	Article-No.
Press-fit threaded insert	Ø12/M8	22.5	19.5	15 g	1.35.608195
Press-fit threaded insert	Ø12/M8	32.5	29.5	20 g	1.35.608295
Press-fit threaded insert	Ø12/M8	42.5	39.5	26 g	1.35.608395
Press-fit threaded insert	Ø12/M8	47.5	44.5	28 g	1.35.608445
Press-fit threaded insert	Ø12/M8	52.5	49.5	31 g	1.35.608495
Press-fit threaded insert	Ø12/M10	22.5	19.5	11 g	1.35.610195
Press-fit threaded insert	Ø12/M10	32.5	29.5	15 g	1.35.610295
Press-fit threaded insert	Ø12/M10	42.5	39.5	18 g	1.35.610395
Press-fit threaded insert	Ø12/M10	47.5	43.5	20 g	1.35.610445
Press-fit threaded insert	Ø12/M10	52.5	49.5	22 g	1.35.610495

Press-fit threaded inserts w/o collar for core hole Ø12

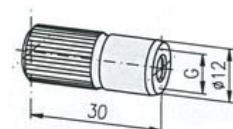


Application

For mounting on front end and fastening of any profile with core hole Ø12

Technical data

material: steel
surface: galvanised



16 20 30 40 45 50 60

Description	G	Weight	Article-No.
Press-fit threaded insert, w/o collar	Ø12/M6	19 g	1.35.606300
Press-fit threaded insert, w/o collar	Ø12/M8	17 g	1.35.608300

1.4 Installation accessories



Cover profiles
➔ 4.03



Cover profiles
➔ 4.03



Sliding and cover
profiles
➔ 4.04



Reducing profiles
➔ 4.05



Combination profiles
➔ 4.06



Combination profiles
➔ 4.07



Combination profiles
for sliding profiles
➔ 4.09



Guide profile
for sliding profile
➔ 4.10



Framing profiles
one piece
➔ 4.11



Wedge profiles
➔ 4.12



Sponge rubber
round cords
➔ 4.13-4.14



Sealing profile
➔ 4.15



Framing profiles
➔ 4.16-4.17



Rubber cover-profiles
➔ 4.18



Edge protection profile 40
➔ 4.19



Cover caps
for profiles
➔ 4.20-4.22



Cover cap Ø48
for hand rail profile
➔ 4.22



Cover plugs
for cross bushings
➔ 4.23



Cover plugs domed for
cross bushings
➔ 4.24



Cover caps
for tubes
➔ 4.25



Cover caps
for screw bores
➔ 4.25



Radius covers
➔ 4.26-4.27



Radius compensations
➔ 4.28



Floor levelling
screws
➔ 4.29



Levelling foot PA 20
➔ 4.29



Hand adjustable feet
➔ 4.30



Levelling feet
➔ 4.31



Adjustable tilt-feet
➔ 4.32-4.36



Angular adjusting feet
➔ 4.37



Base foot
➔ 4.38



Base feet
➔ 4.39-4.43



Base angle
➔ 4.44



Stacking foot
➔ 4.44



Fixed castors
➔ 4.47, 4.53



Swivel castors
➔ 4.47, 4.53



Swivel castors
lockable
➔ 4.47, 4.53



Locking castors
➔ 4.59-4.60



Angles
➔ 4.61



Angles PA
➔ 4.62



Angles GD-Zn
➔ 4.63 - 4.65



Angles GD-Al
➔ 4.66



Angles Alu
➔ 4.67



Swivel angles
straight design
➡ 4.68



Swivel angles
➡ 4.68-4.69



Cross connection
plates
➡ 4.69



Base plates
➡ 4.70-4.71



Floor mounting plate
➡ 4.72



Mounting plates
➡ 4.73



Floor plate
➡ 4.73



Connection plates
➡ 4.74



Fastening plate
for joint 30x100
➡ 4.75



Eye-bolt
➡ 4.76



Corner piece set
angle PA
➡ 4.77



Corner piece set
cubic PA
➡ 4.78



Corner piece set
45° PA
➡ 4.79



Corner piece set
spherical PA
➡ 4.79



Corner pieces
cubic
➡ 4.80-4.81

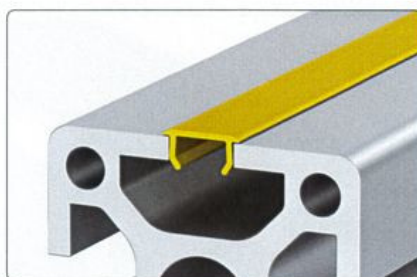
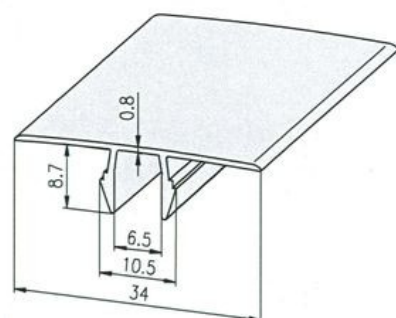
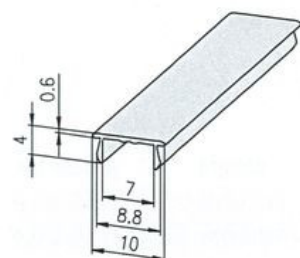
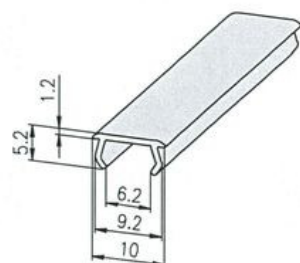


Corner pieces
segment
➡ 4.80-4.81



Corner pieces
sphere
➡ 4.80-4.81

Cover profiles



Application

Cover profile with 1.2 mm jutout for the protection of the profile slots

Technical data

bar length: 2.5 m
material: PVC rigid
• oil and water resistant
• anti-electrostatic
• lead- and cadmium free

Colours

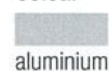


Description	Colour	similar to RAL	Weight	Article-No.
Cover profile 10, PVC, F/E,	grey	7035	85 g/bar	1.41.11.1
Cover profile 10, PVC, F/E,	black	9011	85 g/bar	1.41.11.2
Cover profile 10, PVC, F/E,	yellow	1023	85 g/bar	1.41.11.3

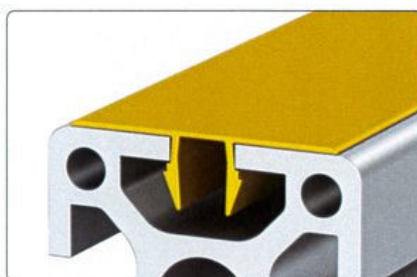
Technical data

bar length: 2.5 m
material: aluminium
surface: natural anodised

Colour



Description	Weight	Article-No.
Cover profile 10, Alu, F/E	67.5 g/bar	1.41.121



Application

Cover profile for the protection of the profile slots
Dangerous spots can be marked with yellow cover profiles

Technical data

bar length: 2.5 m
material: PVC rigid
• oil and water resistant

Colours



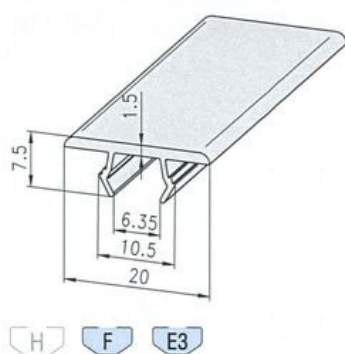
Description	Colour	similar to RAL	Weight	Article-No.
Cover profile 34, PVC, E,	grey	7035	170 g/bar	1.41.15E34.1
Cover profile 34, PVC, E,	black	9011	170 g/bar	1.41.15E34.2
Cover profile 34, PVC, E,	yellow	1003	204 g/bar	1.41.15E34.3

Sliding und cover profiles PVC



Application

For the protection of the profile slots;
usable as a sliding element



Technical data

bar length: 6.0 m
material: HD PE Shore 100

- oil and water resistant
- anti-electrostatic
- lead- and cadmium free

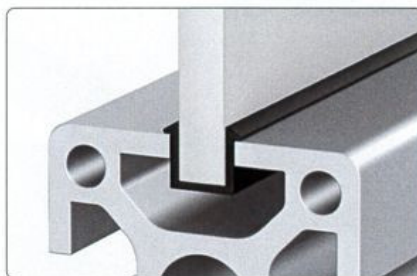
Colours

black grey/white

Description

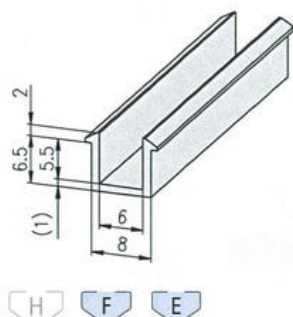
Description	Colour	similar to RAL	Weight	Article-No.
Sliding and cover profile 20 PE, F/E3	black	9011	249 g/bar	1.41.16F/E320.2
Sliding and cover profile 20 PE, F/E3	grey/white	9002	249 g/bar	1.41.16F/E320.4

Reducing profiles PVC



Application

To reduce the slot size from 8 mm to 6 mm



Technical data

bar length: 2.5 m

material: PVC rigid

- oil and water resistant
- anti-electrostatic
- lead- and cadmium free

Colours

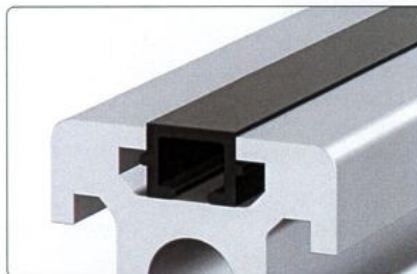


Description	Colour	similar to RAL	Weight	Article-No.
Reducing profile PVC, F/E, 8/6	grey	7035	85 g/bar	1.41.21.1
Reducing profile PVC, F/E, 8/6	black	9011	85 g/bar	1.41.21.2

Combination profiles PVC



Use as reduction profile



Use as slot-cover profile

Application

Combination profiles for use as reduction or cover profiles

Technical data

bar length: 2.5 m

material: PVC rigid

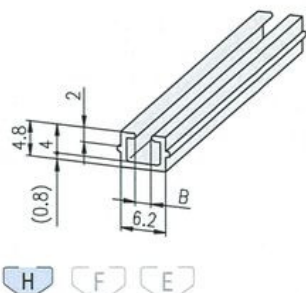
- oil and water resistant

Colours



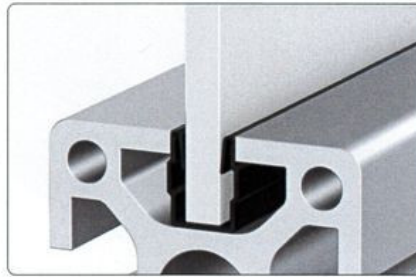
grey

black



Description	B	Colour	similar to RAL	Weight	Article-No.
Combination profile PVC, H	2	grey	7035	37.5 g/bar	1.41.H02.1
Combination profile PVC, H	2	black	9011	37.5 g/bar	1.41.H02.2
Combination profile PVC, H	4	grey	7035	35.0 g/bar	1.41.H04.1
Combination profile PVC, H	4	black	9011	35.0 g/bar	1.41.H04.2

Combination profiles



Use as reduction profile

Application

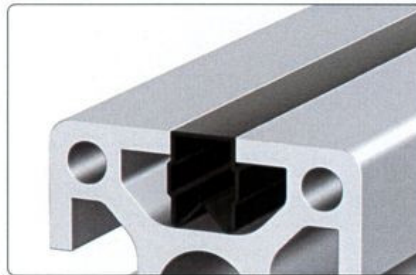
Combination profiles for use as reduction or cover profiles

Technical data

bar length: 2.5 m

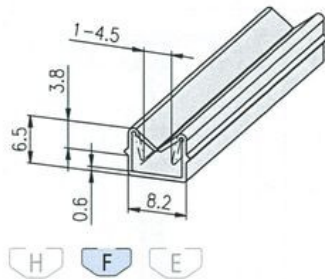
material: PP

- oil and water resistant

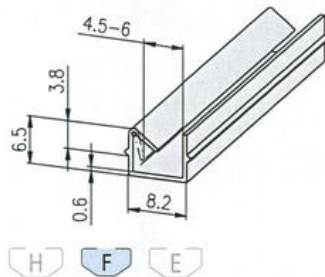


Use as slot-cover profile

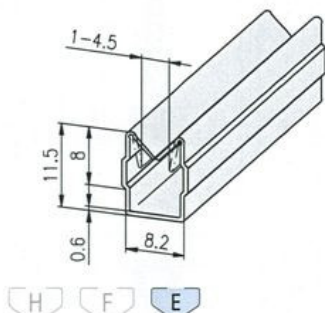
Colours



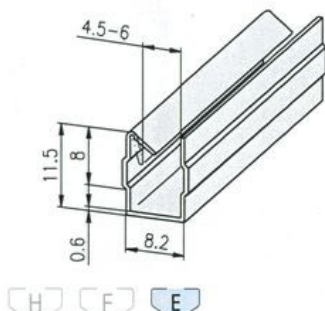
Description	D	Colour	similar to RAL	Weight	Article-No.
Combination profile F	1 - 4.5	grey	7035	31 g/bar	1.41.F14.1
Combination profile F	1 - 4.5	black	9011	31 g/bar	1.41.F14.2



Description	D	Colour	similar to RAL	Weight	Article-No.
Combination profile F	4.5 - 6	grey	7035	28 g/bar	1.41.F46.1
Combination profile F	4.5 - 6	black	9011	28 g/bar	1.41.F46.2

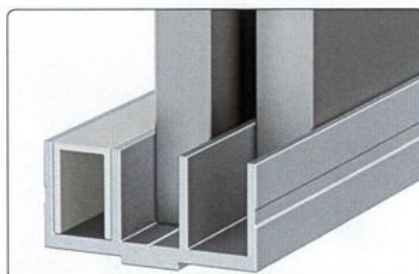


Description	D	Colour	similar to RAL	Weight	Article-No.
Combination profile E	1 - 4.5	grey	7035	47 g/bar	1.41.E314.1
Combination profile E	1 - 4.5	black	9011	47 g/bar	1.41.E314.2

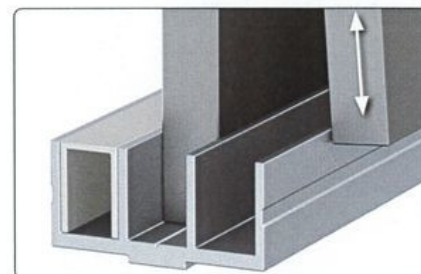


Description	D	Colour	similar to RAL	Weight	Article-No.
Combination profile E	4.5 - 6	grey	7035	42 g/bar	1.41.E346.1
Combination profile E	4.5 - 6	black	9011	42 g/bar	1.41.E346.2

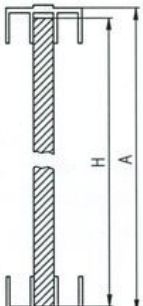
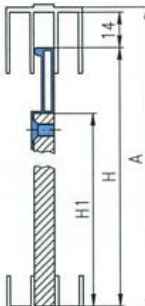
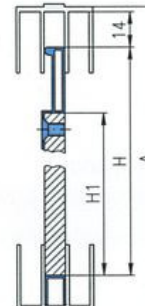
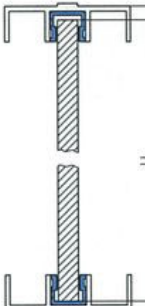
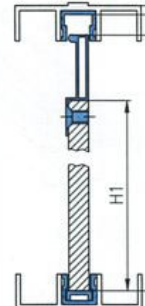
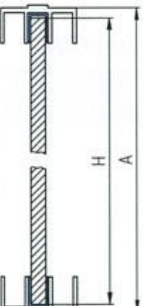
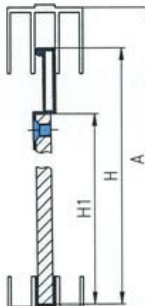
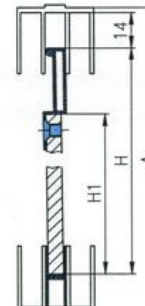
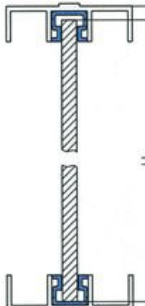
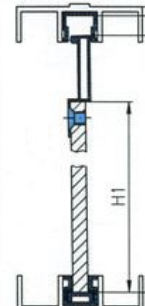
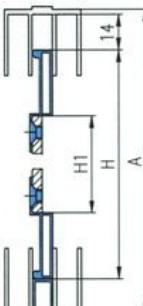
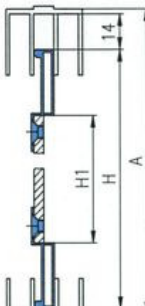
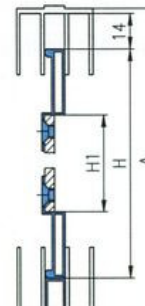
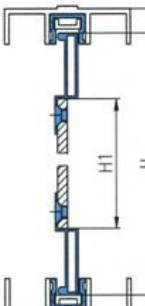
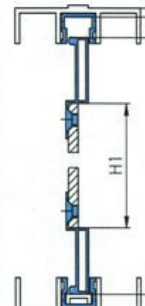
Sliding doors construction types



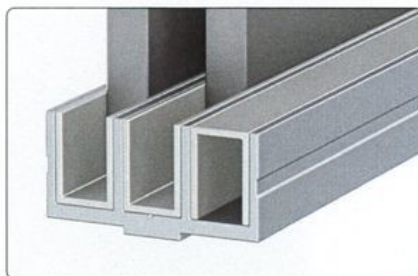
Fixed



Removable

Profile	Sliding profile 30 mm			Sliding profile 50 mm	
Type of mounting	Fixed	Removable		Fixed	Removable
Profile above	30×14	30×26	30×26	50×14	50×14
Profile below	30×14	30×14	30×26	50×14	50×14
Panel element 8 mm	 $H = A - 6$	 $H = A - 18$ $H1 = A - 44$	 $H = A - 30$ $H1 = A - 56$	 $H = A - 9$	 $H = A - 19$ $H1 = A - 45$
Panel element 6 mm	 $H = A - 8$	 $H = A - 19$ $H1 = A - 45$	 $H = A - 31$ $H1 = A - 57$	 $H = A - 9$	 $H = A - 19$ $H1 = A - 45$
Panel element 1 - 14 mm	 $H = A - 6$ $H1 = A - 58$	 $H = A - 18$ $H1 = A - 70$	 $H = A - 30$ $H1 = A - 82$	 $H = A - 17$ $H1 = A - 69$	 $H = A - 19$ $H1 = A - 71$

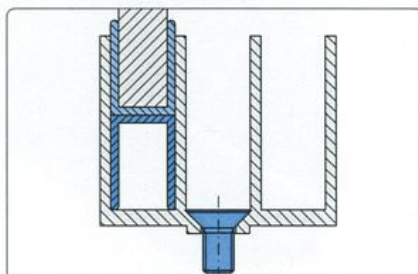
Combination profiles PVC



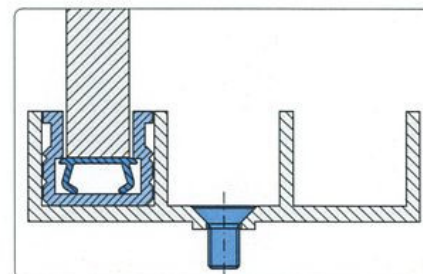
Application

Combination profiles for sliding profiles alternatively suitable as:

- reducing profile
- cover profile
- Inserted plate (only combination profile 1.41.330)



Inserted plate for sliding profile 30×26:
combination profile 1.41.330



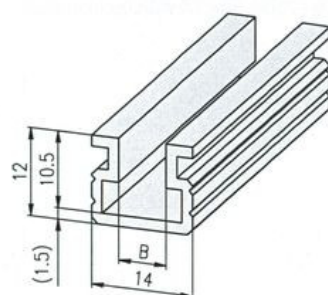
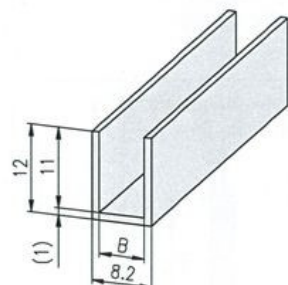
Inserted plate for sliding profile 50×14:
for sliding profile 1.41.11.1, 1.41.11.2

Technical data

bar length: 2.5 m
material: PVC rigid
oil and water resistant

Colour

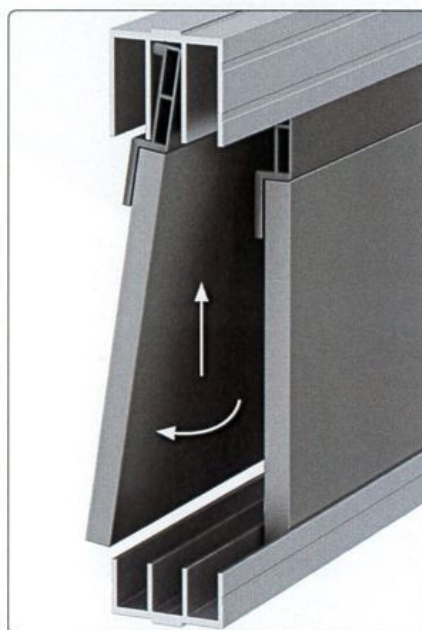

grey



Description	B	Weight	Article-No.
Combination profile PVC for 30×14	6.2	115 g/bar	1.41.330

Description	B	Weight	Article-No.
Combination profile PVC for 50×14	6.5	222.5 g/bar	1.41.350
Combination profile PVC for 50×14	9.0	205.0 g/bar	1.41.351

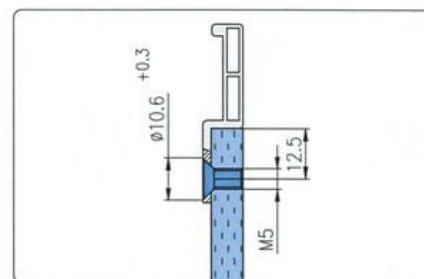
Guide profile PVC



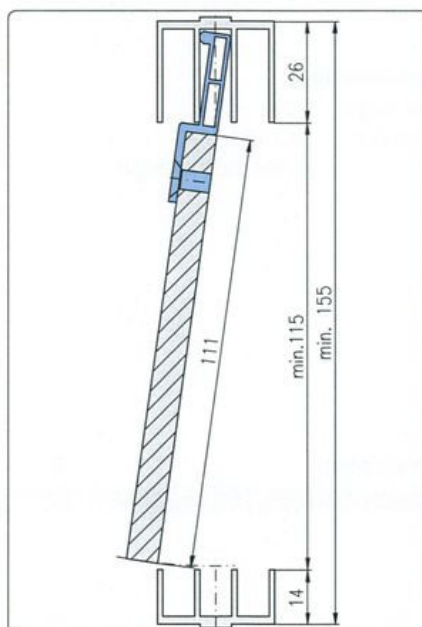
Application

The guide profile is necessary

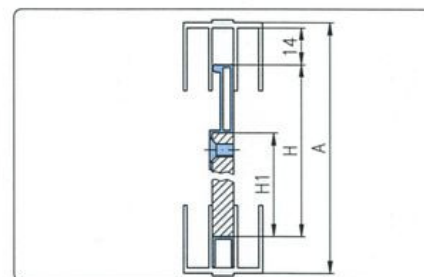
- for demountable sliding doors
- for the use of panel elements of each plate thickness from 1 mm to 14 mm



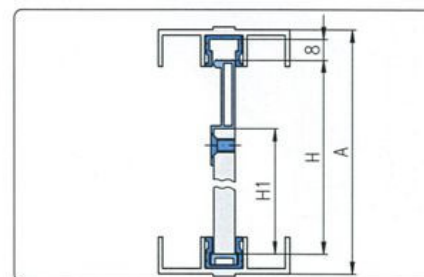
Drill dimensions



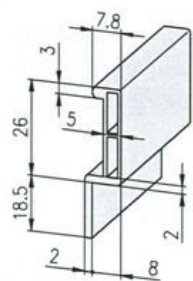
Minimum height for lifting of the panel elements



Use in sliding profile 30x26



Use in sliding profile 50x14 with combination profile



Technical data

bar length: 2.5 m

material: PVC rigid
oil and water resistant

Colour

grey

Description

Guide profile PVC for sliding profile

Weight

375 g/bar

Article-No.

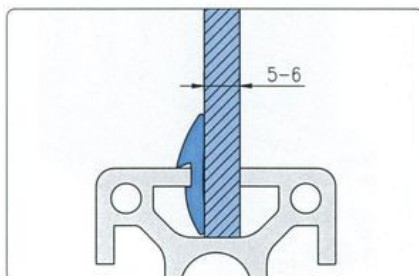
1.41.360

Framing profiles one piece

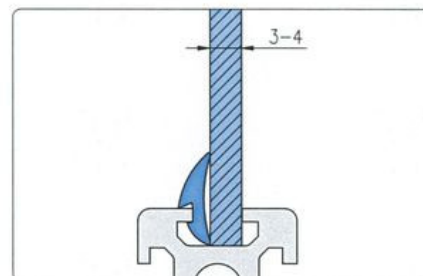


Application

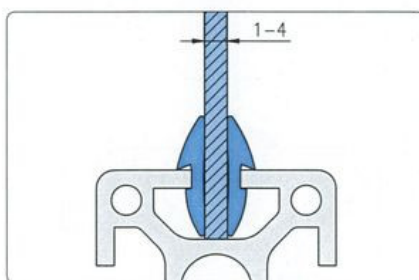
The one piece framing profile for mounting panels of different thickness
The elastic lips provide a good seal



One sided application for profiles with F- and E-slots and panels 5 - 6 mm thick



One sided application for profiles with H-slots and panels 3 - 4 mm thick



Two sided application for profiles with F- and E-slots and panels 1 - 4 mm thick

Colours

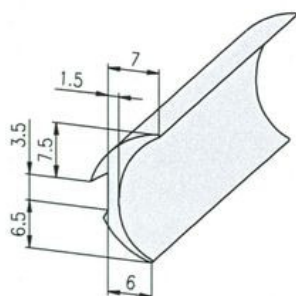
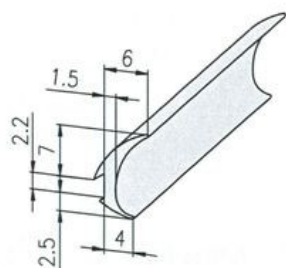
grey: similar to RAL 7035
black: similar to RAL 9011

Technical data

length of ring: 60 m
material: NBR - 60 Shore A
• compatible with acrylic glass
• oil and water resistant

Colours

grey  
black



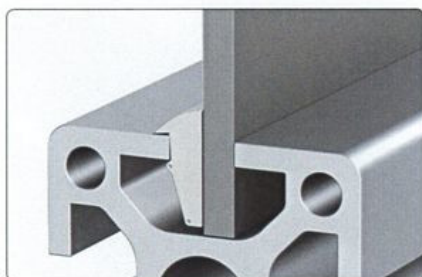
Description	Colour	similar to RAL	Weight	Article-No.
Framing profile one piece F	grey	7035	2,200 g/ring	1.41.5F0.1.60
			37 g/m	1.41.5F0.1-A00A00/...
Framing profile one piece F	black	9011	2,200 g/ring	1.41.5F0.2.60
			37 g/m	1.41.5F0.2-A00A00/...

/... = length in mm

Description	Colour	similar to RAL	Weight	Article-No.
Framing profile one piece E	grey	7035	3,120 g/ring	1.41.5E0.1.60
			52 g/m	1.41.5E0.1-A00A00/...
Framing profile one piece E	black	9011	3,120 g/ring	1.41.5E0.2.60
			52 g/m	1.41.5E0.2-A00A00/...

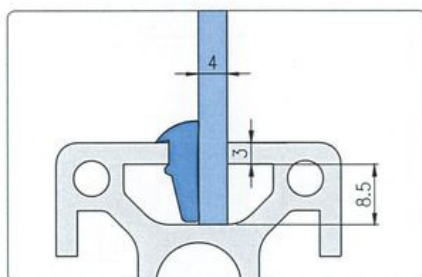
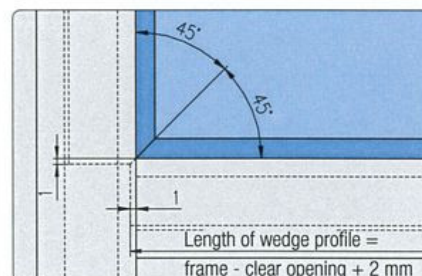
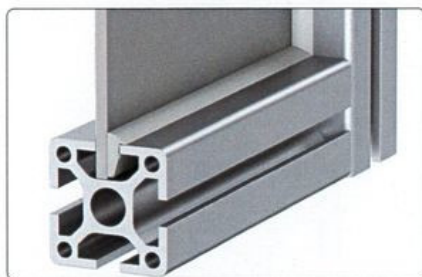
/... = length in mm

Wedge profiles



Application

Wedge profiles for sealing or fixing of panel elements with a thickness of 4 mm



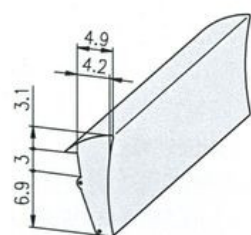
E3-slot

Technical data

- length of ring: 100 m
material: Santoprene™
- free of silicon
 - compatible with acrylic glass

Colour

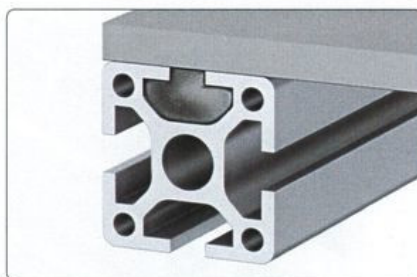

grey



Description	Colour	Weight	Article-No.
Wedge profile E3	grey	5,000 g/ring	1.41.51E3.1.99
		50 g/m	1.41.51E3.1-A00A00/...

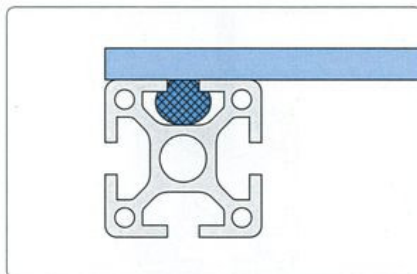
/... = length in mm

Sponge rubber round cords

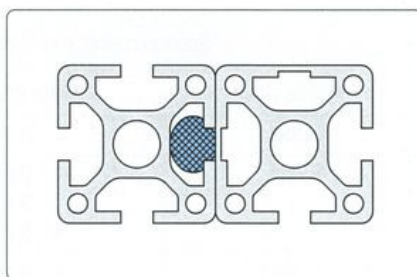


Application

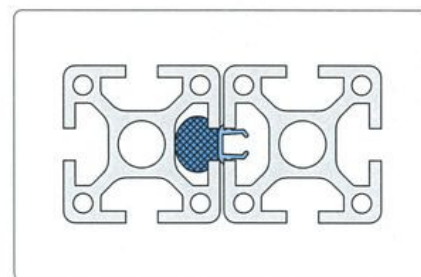
Sponge rubber round cords for sealing



Profile with panel element



1 profile with slot
1 profile closed



2 profiles with slots
1 profile with slot-cover profile

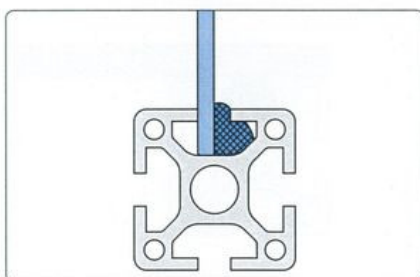
Sponge rubber round cord diameter-determination	
Profile slot	Sponge rubber diameter
H-slot	8 mm
F-slot	12 mm
E-slot	18 mm

Sponge rubber round cords

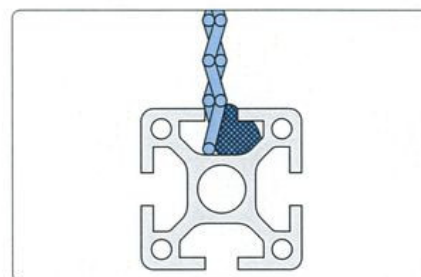


Application

For compensation of slot width on in-between sizes of cover panels



Enclosures with panel materials



Enclosures with wire screens

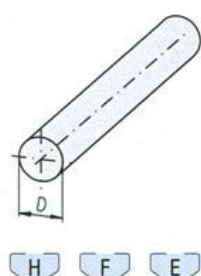
Sponge rubber round cord diameter-determination		
Profile slot	Plate thickness	Sponge rubber diameter
H-slot	1 - 3 mm	6 mm
F-slot	1 - 2 mm	10 mm
	3 mm	8 mm
	4 - 5 mm	6 mm
E-slot	1 - 3 mm	10 mm
	3 - 4 mm	2×8 mm
	5 mm	2×6 mm

Technical data

length of ring: 100 m
material: EPDM

Colour


grey



Description	D	Weight	Article-No.
 Sponge rubber round cords	Ø6	1,100 g/ring	1.41.606.99
		11 g/m	1.41.606-A00A00/...
 Sponge rubber round cords	Ø8	1,900 g/ring	1.41.608.99
		19 g/m	1.41.608-A00A00/...
 Sponge rubber round cords	Ø10	3,200 g/ring	1.41.610.99
		32 g/m	1.41.610-A00A00/...
 Sponge rubber round cords	Ø12	4,600 g/ring	1.41.612.99
		46 g/m	1.41.612-A00A00/...
 Sponge rubber round cords	Ø18	10,000 g/ring	1.41.618.99
		100 g/m	1.41.618-A00A00/...

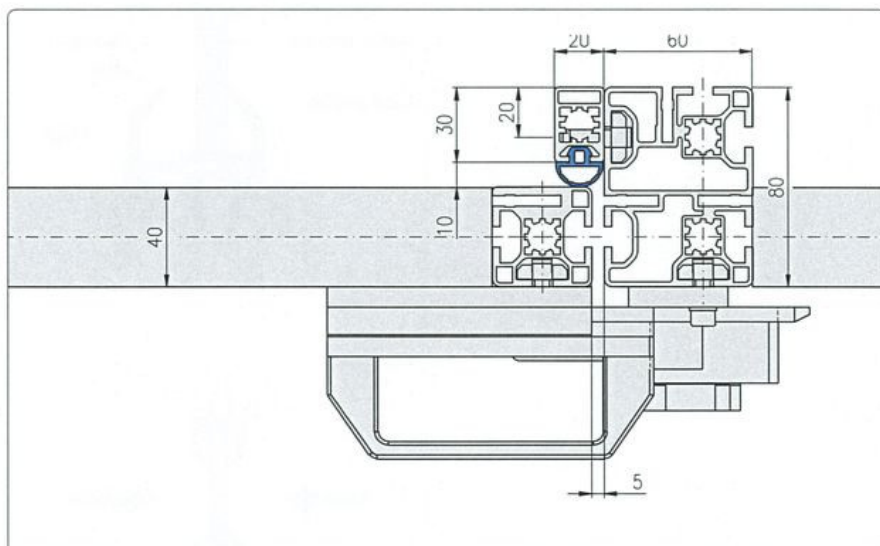
/... = length in mm

Sealing profile



Application

For sealing of doors and windows and for door stops



Technical data

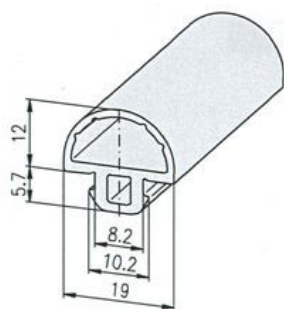
length of ring: 40 m

material: EPDM, 60° ± 5° Shore A

- free of silicon
- compatible with acrylic glass

Colour

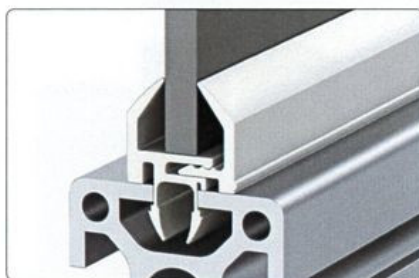
black



Description	Colour	Weight	Article-No.
Sealing profile F	black ring	5,120 g/ring	1.41.6510F.2.40
		128 g/m	1.41.6510F.2-A00A00/...

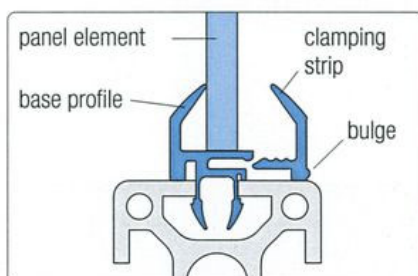
/... = length in mm

Framing profiles



Application

The framing profile allows the installation of panels in closed frames

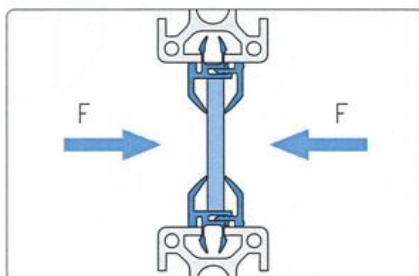


Assembly

1. Insert base profile in profile slot
2. Put panel element in position
3. Push clamping strip in position

Comments

The clamping strip is badged by a bulge as a distinctive mark to the base profile



Maximum loading of framing profile:

$$F_{\max} = 200 \text{ N/m}$$

For maximum loading of element be aware of the stability of used framing profile

Technical data

bar length: 6 m

material:

- base body: PVC rigid, 98° Shore A
- lip: PVC soft, TPE 60° ± 5° Shore A, compatible with acrylic glass, free of silicon

temperature

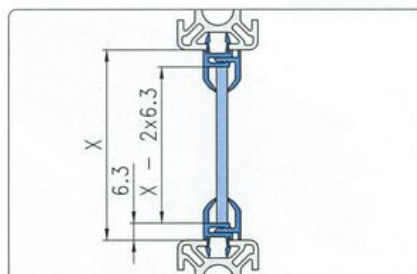
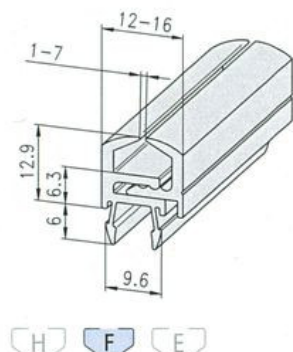
range: -20°C to +80°C

Colours



grey

black

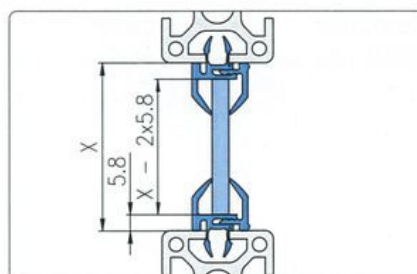
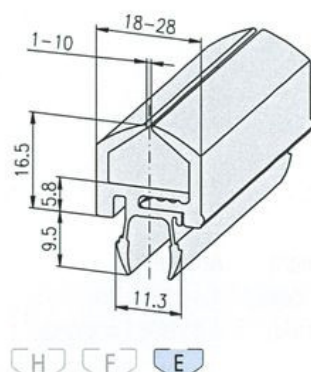


Comments

Suitable for panel elements from 1 to 7 mm thickness

Description	Colour	similar to RAL	Weight	Article-No.
Framing profile F	grey	7035	960 g/bar	1.41.71F0107.1.60
			160 g/m	1.41.71F0107.1-A00A00/...
Framing profile F	black	9011	960 g/bar	1.41.71F0107.2.60
			160 g/m	1.41.71F0107.2-A00A00/...

/... = length in mm



Comments

Suitable for panel elements from 1 to 10 mm thickness

Description	Colour	similar to RAL	Weight	Article-No.
Framing profile E	grey	7035	1,100 g/bar	1.41.71E0110.1.60
			181 g/m	1.41.71E0110.1-A00A00/...
Framing profile E	black	9011	1,100 g/bar	1.41.71E0110.2.60
			181 g/m	1.41.71E0110.2-A00A00/...

/... = length in mm

Rubber cover-profiles



Application

Rubber cover-profiles for profile protection
Suitable for:

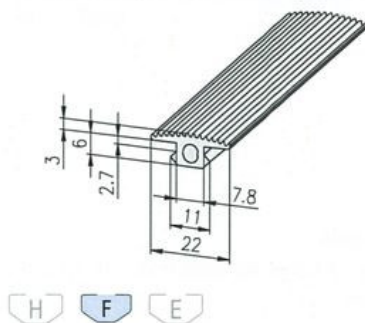
- door stop
- slide prevention on steps
- protection against damage
- handrails
- pads

Technical data

length of ring: 20 m
material: NBR, hardness 80 Shore A
oil and water resistant

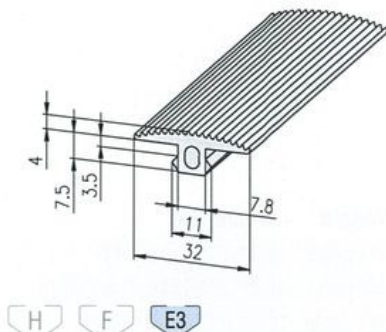
Colour

black



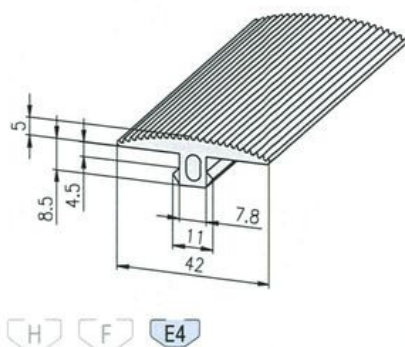
Description	Colour	Weight	Article-No.
Rubber cover-profile F	black	2,400 g/ring	1.41.8F30.20
		120 g/m	1.41.8F30-A00A00/...

/... = length in mm



Description	Colour	Weight	Article-No.
Rubber cover-profile E3	black	4,400 g/ring	1.41.8E40.20
		220 g/m	1.41.8E40-A00A00/...

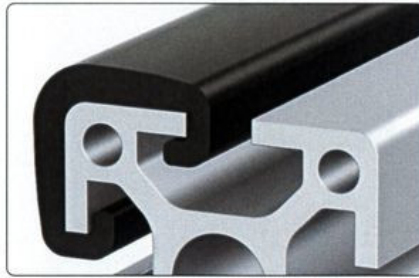
/... = length in mm



Description	Description	Weight	Article-No.
Rubber cover-profile E4	black	6,400 g/ring	1.41.8E50.20
		320 g/m	1.41.8E50-A00A00/...

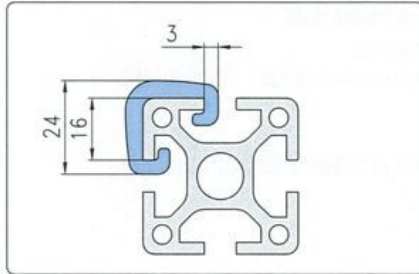
/... = length in mm

Edge protection profile



Application

Edge protection profile for profiles PG40



Assembly

For assembly use lubricant (e.g. diluted liquid soap).

Apply lubricant to the inside of the edge protection profile. Place the edge protection profile on the profile, press on one end until the lateral tabs jump behind the slot flanks, then continue to press until the entire profile piece is applied.

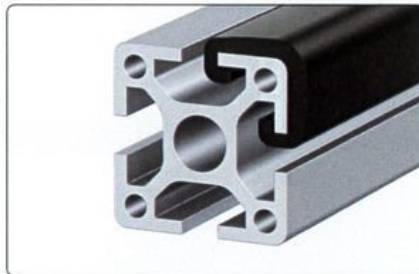
Technical data

bar length: 2 m

material: NBR, hardness 70 Shore A
oil and water resistant

Colour


black



one edge covered



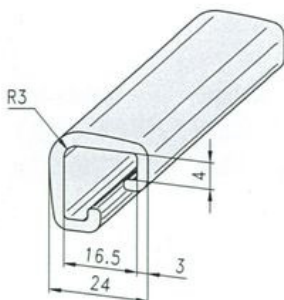
two edges covered



three edges covered



four edges covered



16 20 30 **40** 45 50 60

Description	Description	Weight	Article-No.
Edge protection profile 40	black	225 g/m	1.41.9E40.2

Cover caps



Application

Cover caps prevent dirt from entering and avoid lacerations.

Comments

Before mounting debur core hole

Technical data

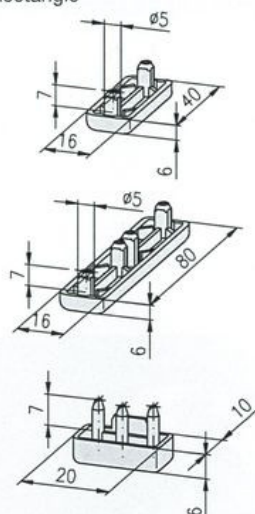
material: PA-GF
temperature range: -20°C to +85°C

Colours

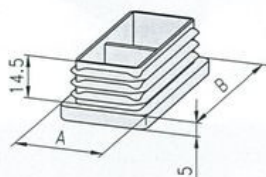


for profiles without core hole

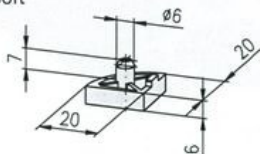
Rectangle



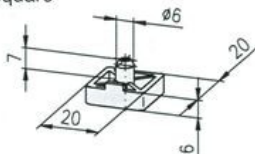
for tube profile



Soft



Square



Rectangle



Description	Colour	Weight	Article-No.
Cover cap 16×40, E only for E-Slot	black	3.9 g	1.42.09016040.2

Description	Colour	Weight	Article-No.
Cover cap 16×80, E	grey	7.1 g	1.42.09016080.1
Cover cap 16×80, E only for E-Slot	black	7.1 g	1.42.09016080.2

Description	Colour	Weight	Article-No.
Cover cap 20×10	black	2 g	1.42.20201.2

Description	A×B	Colour	Weight	Article-No.
Cover cap	30×60 for tube profile	black	10.2 g	1.42.217.030060.2
Cover cap	30×100 for tube profile	black	17.7 g	1.42.217.030100.2

for profiles with core hole-ø6

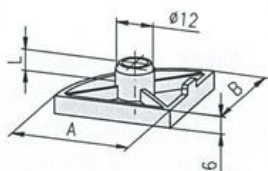
Description	Colour	Weight	Article-No.
Cover cap 20×20	grey	3 g	1.42.10200.1
Cover cap 20×20	black	3 g	1.42.10200.2

Description	Colour	Weight	Article-No.
Cover cap 20×20	grey	3 g	1.42.10202.1
Cover cap 20×20	black	3 g	1.42.10202.2

Description	Colour	Weight	Article-No.
Cover cap 20×40	grey	6 g	1.42.10204.1
Cover cap 20×40	black	6 g	1.42.10204.2

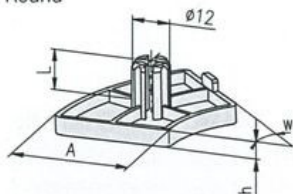
for profiles with core hole-Ø12

Soft



Description	A×B	L	Colour	Weight	Article-No.
Cover cap	30×30	7	grey	5 g	1.42.20300.1
Cover cap	30×30	7	black	5 g	1.42.20300.2
Cover cap	40×40	7	grey	8 g	1.42.20400.1
Cover cap	40×40	7	black	8 g	1.42.20400.2
Cover cap	45×45	14	black	10 g	1.42.2045000.2
Cover cap	50×50	7	grey	12 g	1.42.20500.1
Cover cap	50×50	7	black	12 g	1.42.20500.2

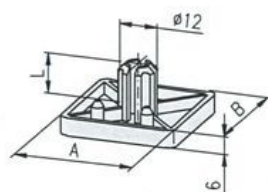
Round



! note "h" !

Description	A	W	h	L	Colour	Weight	Article-No.
Cover cap	40, round	30°	4	14	black	6 g	1.42.2040R30.2
Cover cap	40, round	45°	6	14	black	8 g	1.42.2040R45.2
Cover cap	40, round	60°	6	14	black	12 g	1.42.2040R60.2
Cover cap	40, round	90°	6	14	black	16 g	1.42.2040R90.2

Square



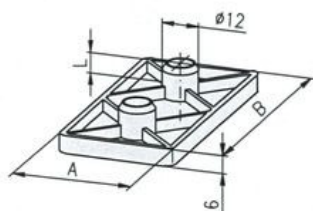
Description	A×B	L	Colour	Weight	Article-No.
Cover cap	30×30	14	grey	6 g	1.42.20303.1
Cover cap	30×30	14	black	6 g	1.42.20303.2
Cover cap	40×40	14	grey	10 g	1.42.20404.1
Cover cap	40×40	14	black	10 g	1.42.20404.2
Cover cap	45×45	14	black	12 g	1.42.2045045.2
Cover cap	50×50	7	grey	15 g	1.42.20505.1
Cover cap	50×50	7	black	15 g	1.42.20505.2
Cover cap	60×60	14	black	18 g	1.42.2060060.2

Rectangle



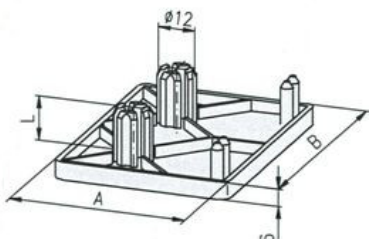
Description	A×B	L	Colour	Weight	Article-No.
Cover cap	20×30	7	grey	4 g	1.42.20203.1
Cover cap	20×30	7	black	4 g	1.42.20203.2
Cover cap	30×50	7	grey	8 g	1.42.20305.1
Cover cap	30×50	7	black	8 g	1.42.20305.2
Cover cap	45×60	14	black	12.1 g	1.42.2045060.2

Rectangle



Description	A×B	L	Colour	Weight	Article-No.
Cover cap	30×60	7	grey	8 g	1.42.20306.1
Cover cap	30×60	7	black	8 g	1.42.20306.2
Cover cap	30×100	7	black	20 g	1.42.20310.2
1) Cover cap	30×150	7	black	27 g	1.42.20315.2
Cover cap	40×80	7	grey	18 g	1.42.20408.1
Cover cap	40×80	7	black	18 g	1.42.20408.2
Cover cap	45×90	14	black	20.5 g	1.42.2045090.2
Cover cap	50×100	7	grey	26 g	1.42.20510.1
Cover cap	50×100	7	black	26 g	1.42.20510.2
Cover cap	50×150	7	black	40 g	1.42.20515.2
Cover cap	60×90	14	black	25.9 g	1.42.2060090.2

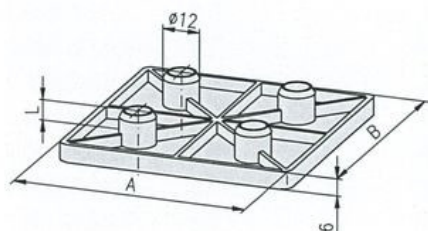
1) only for E-Slot



Description	A×B	L	Colour	Weight	Article-No.
Cover cap	60×80	14	black	21.4 g	1.42.2060080.2

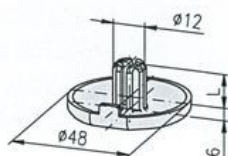
for profiles with core hole-Ø12

Square



Description	A×B	L	Colour	Weight	Article-No.
Cover cap	80×80	7	black	34 g	1.42.20808.2
Cover cap	90×90	14	black	42 g	1.42.2090090.2
Cover cap	100×100	7	black	52 g	1.42.21010.2

Ø48 for hand rail profile



C

Technical data

material: PA-GF

Description	L	Colour	Weight	Article-No.
Cover cap Ø48 for hand rail profile	14	grey	1.8 g	1.42.2048R00.1
Cover cap Ø48 for hand rail profile	14	black	1.8 g	1.42.2048R00.2

Cover plugs

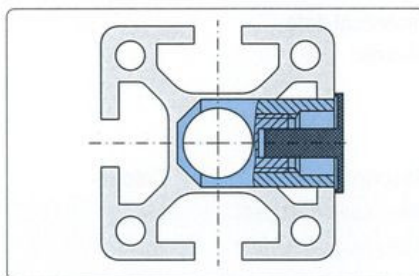


Application

The cover plug allows the closing of the connector cross bushing bore



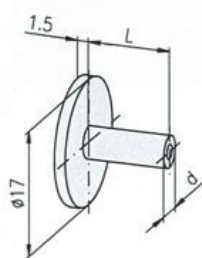
Cover plug in combination with cover profile



Technical data

material: PE

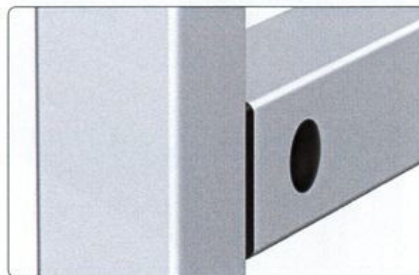
Colours



Description	Colour	L	d	Weight	Article-No.
Cover plug 20	grey	3.5	Ø4.3	2 g	1.42.502.1
Cover plug 20	black	3.5	Ø4.3	2 g	1.42.502.2
Cover plug 30	grey	6.0	Ø5.3	3 g	1.42.503.1
Cover plug 30	black	6.0	Ø5.3	3 g	1.42.503.2
Cover plug 40	grey	11.0	Ø5.3	4 g	1.42.504.1
Cover plug 40	black	11.0	Ø5.3	4 g	1.42.504.2
Cover plug 50	grey	16.0	Ø5.3	5 g	1.42.505.1
Cover plug 50	black	16.0	Ø5.3	5 g	1.42.505.2

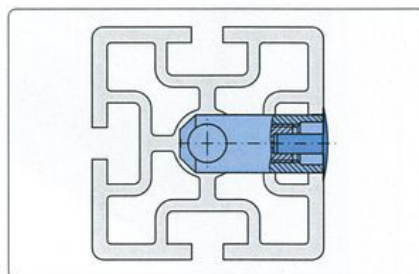
Cover plugs domed

C



Application

The cover plug allows the closing of the connector cross bushing bore



Technical data

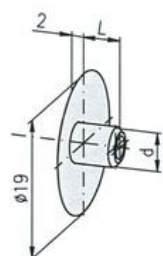
material: PE

Colours



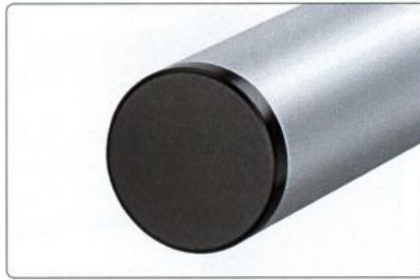
grey

black



Description	Colour	L	d	Weight	Article-No.
Cover plug 20 domed	grey	3.5	Ø4.3	0.2 g	1.42.5120.1
Cover plug 20 domed	black	3.5	Ø4.3	0.2 g	1.42.5120.2
Cover plug 30 domed	grey	6.0	Ø5.3	0.3 g	1.42.5130.1
Cover plug 30 domed	black	6.0	Ø5.3	0.3 g	1.42.5130.2
Cover plug 40 domed	grey	11.0	Ø5.3	0.4 g	1.42.5140.1
Cover plug 40 domed	black	11.0	Ø5.3	0.4 g	1.42.5140.2
Cover plug 45 domed	grey	12.5	Ø5.3	0.4 g	1.42.5145.1
Cover plug 45 domed	black	12.5	Ø5.3	0.4 g	1.42.5145.2
Cover plug 50 domed	grey	15.0	Ø5.3	0.5 g	1.42.5150.1
Cover plug 50 domed	black	15.0	Ø5.3	0.5 g	1.42.5150.2
Cover plug 60 domed	grey	20.0	Ø5.3	0.7 g	1.42.5160.1
Cover plug 60 domed	black	20.0	Ø5.3	0.7 g	1.42.5160.2

Cover caps for tubes



Application

The cover cap allows the closing of the aluminium tube
(inner tube $\varnothing = d$)

Technical data

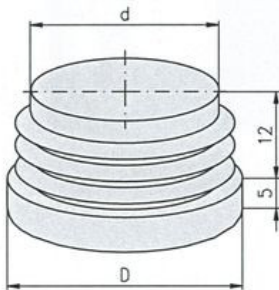
material: PE

Colours



grey

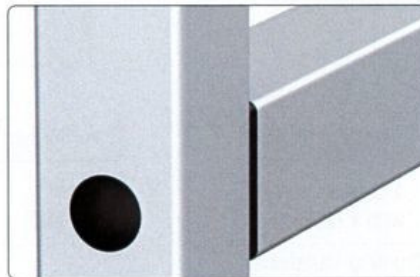
black



Description	D	Colour	d	Weight	Article-No.
Tube cover cap	Ø20	grey	Ø16	1.8 g	1.42.6020.1
Tube cover cap	Ø20	black	Ø16	1.8 g	1.42.6020.2
Tube cover cap	Ø30	grey	Ø24	3.4 g	1.42.6030.1
Tube cover cap	Ø30	black	Ø24	3.4 g	1.42.6030.2
Tube cover cap	Ø40	grey	Ø32	5.3 g	1.42.6040.1
Tube cover cap	Ø40	black	Ø32	5.3 g	1.42.6040.2

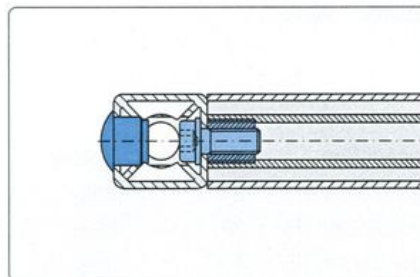
Cover caps for screw bores

C

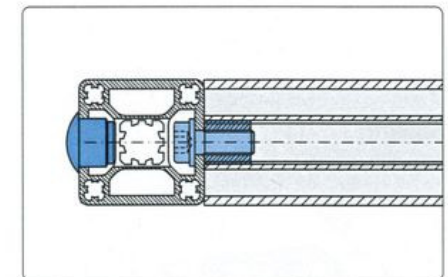


Application

The cover plug allows the closing of the screw bore



Profile 30



Profile 40

Technical data

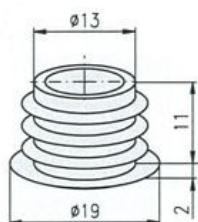
material: PE

Colours



grey

black



Description	Colour	Weight	Article-No.
Cover plug	Ø15 grey	1.3 g	1.42.6114.1
Cover plug	Ø15 black	1.3 g	1.42.6114.2

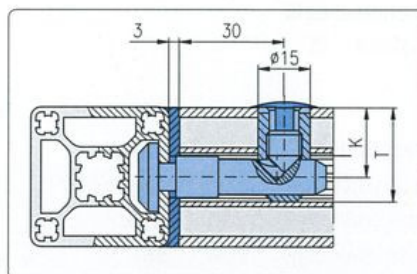
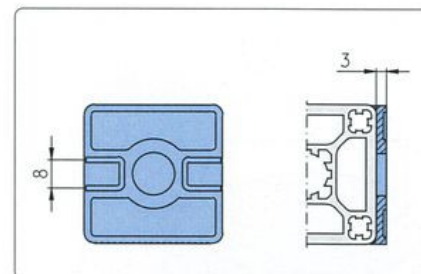
Radius covers

C

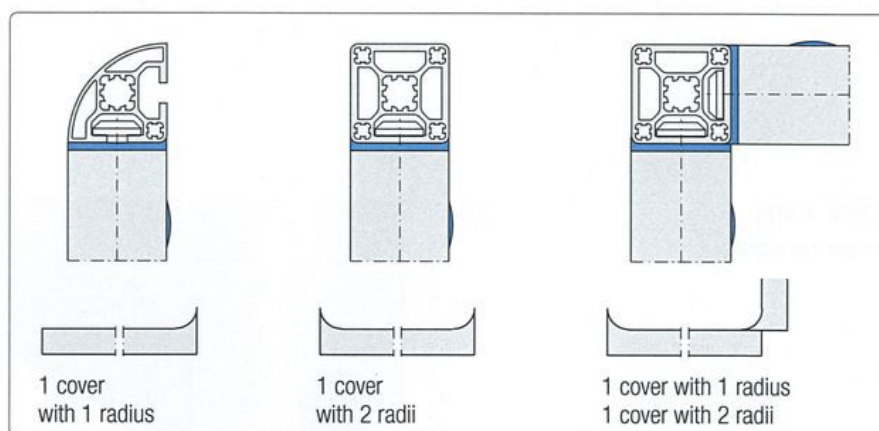


Application

For covering the exterior profile radius


Drill dimensions by use of radius covers
(dimensions K, T → connector-cross bushings 1.2B)


For mounting of panels the slots can be broken out



Mounting-Variations

Technical data

material: PA-GF

Colours

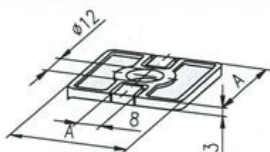


grey

black

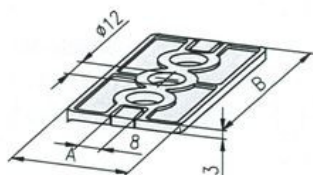
Square

with one radius



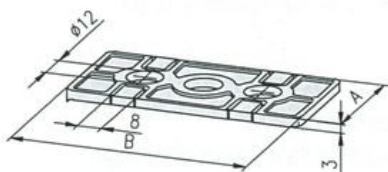
Rectangle

with one radius

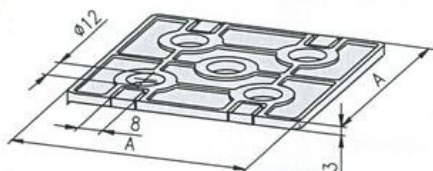


Description	A	Colour	Weight	Article-No.
Radius cover 1R	30	grey	3.1 g	1.43.10030030.1
Radius cover 1R	30	black	3.1 g	1.43.10030030.2
Radius cover 1R	40	grey	6.1 g	1.43.10040040.1
Radius cover 1R	40	black	6.1 g	1.43.10040040.2
Radius cover 1R	45	grey	5.4 g	1.43.10045045.1
Radius cover 1R	45	black	5.4 g	1.43.10045045.2

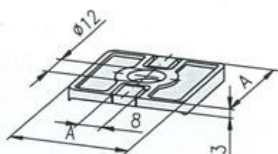
Description	A	B	Colour	Weight	Article-No.
Radius cover 1R	30	60	grey	5.8 g	1.43.10030060.1
Radius cover 1R	30	60	black	5.8 g	1.43.10030060.2
Radius cover 1R	40	80	grey	11.8 g	1.43.10040080.1
Radius cover 1R	40	80	black	11.8 g	1.43.10040080.2
Radius cover 1R	45	90	grey	10.7 g	1.43.10045090.1
Radius cover 1R	45	90	black	10.7 g	1.43.10045090.2

Rectangle 90°
with one radius


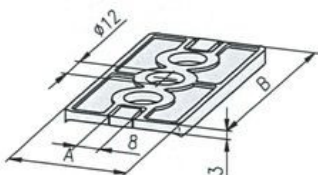
Description	A	B	Colour	Weight	Article-No.
Radius cover 1R	30	60	grey	5.8 g	1.43.11030060.1
Radius cover 1R	30	60	black	5.8 g	1.43.11030060.2
Radius cover 1R	40	80	grey	11.8 g	1.43.11040080.1
Radius cover 1R	40	80	black	11.8 g	1.43.11040080.2
Radius cover 1R	45	90	grey	10.8 g	1.43.11045090.1
Radius cover 1R	45	90	black	10.8 g	1.43.11045090.2

Square
with one radius


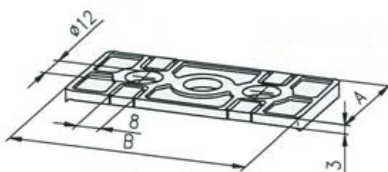
Description	A	Colour	Weight	Article-No.
Radius cover 1R	60	grey	12.0 g	1.43.10060060.1
Radius cover 1R	60	black	12.0 g	1.43.10060060.2
Radius cover 1R	80	grey	24.0 g	1.43.10080080.1
Radius cover 1R	80	black	24.0 g	1.43.10080080.2

Square
with two radii


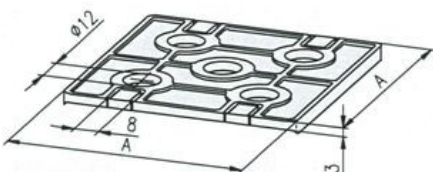
Description	A	Colour	Weight	Article-No.
Radius cover 2R	30	grey	3.2 g	1.43.20030030.1
Radius cover 2R	30	black	3.2 g	1.43.20030030.2
Radius cover 2R	40	grey	6.3 g	1.43.20040040.1
Radius cover 2R	40	black	6.3 g	1.43.20040040.2
Radius cover 2R	45	grey	5.6 g	1.43.20045045.1
Radius cover 2R	45	black	5.6 g	1.43.20045045.2

Rectangle
with two radii


Description	A	B	Colour	Weight	Article-No.
Radius cover 2R	30	60	grey	6.0 g	1.43.20030060.1
Radius cover 2R	30	60	black	6.0 g	1.43.20030060.2
Radius cover 2R	40	80	grey	12.0 g	1.43.20040080.1
Radius cover 2R	40	80	black	12.0 g	1.43.20040080.2
Radius cover 2R	45	90	grey	10.9 g	1.43.20045090.1
Radius cover 2R	45	90	black	10.9 g	1.43.20045090.2

Rectangle 90°
with two radii


Description	A	B	Colour	Weight	Article-No.
Radius cover 2R	30	60	grey	6.0 g	1.43.21030060.1
Radius cover 2R	30	60	black	6.0 g	1.43.21030060.2
Radius cover 2R	40	80	grey	12.0 g	1.43.21040080.1
Radius cover 2R	40	80	black	12.0 g	1.43.21040080.2
Radius cover 2R	45	90	grey	11.0 g	1.43.21045090.1
Radius cover 2R	45	90	black	11.0 g	1.43.21045090.2

Square
with two radii


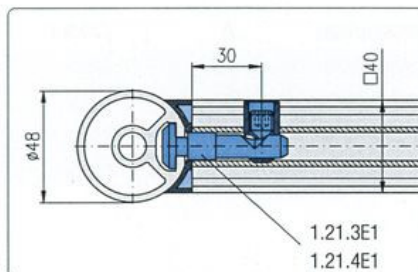
Description	A	Colour	Weight	Article-No.
Radius cover 2R	60	grey	12.0 g	1.43.20060060.1
Radius cover 2R	60	black	12.0 g	1.43.20060060.2
Radius cover 2R	80	grey	24.0 g	1.43.20080080.1
Radius cover 2R	80	black	24.0 g	1.43.20080080.2

Radius compensations

C



Post: Profile 40×40



Working dimensions for hand rail straight with radius compensation

Application

Radius compensation for hand rails

➡ Profile applications 1.1E.03

Comments

Angled joints at any required angle

Not suitably for the use with tilted hand rails

Technical data

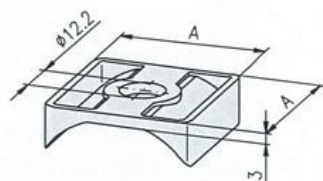
material: PA-GF

Colours



grey

black

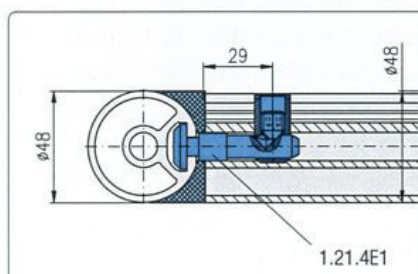


16 20 30 40 45 50 60

Description	A×A	Colour	Weight	Article-No.
Radius compensations	30×30	grey	4.0 g	1.43.71030030.1
Radius compensations	30×30	black	4.0 g	1.43.71030030.2
Radius compensations	40×40	grey	7.0 g	1.43.71040040.1
Radius compensations	40×40	black	7.0 g	1.43.71040040.2



Post: Profile Ø48



Working dimensions for hand rail straight with radius compensation

Technical data

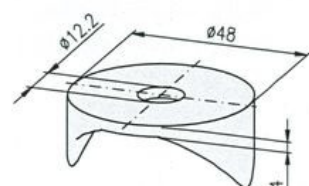
material: PA-GF

Colours



grey

black



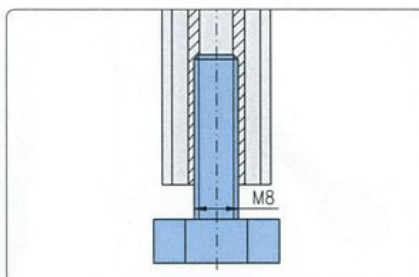
Description	Colour	Weight	Article-No.
Radius compensations Ø48	grey	4.0 g	1.43.71048000.1
Radius compensations Ø48	black	4.0 g	1.43.71048000.2

Levelling feet

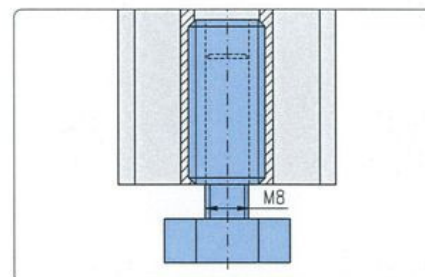


Assembly

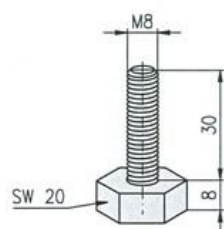
Fastening in core hole Ø6 mm with thread M8



Fastening in core hole Ø6 mm with thread M8



Fastening in core hole Ø12 with threaded insert M14/M8



Technical data

material:

- plate: PE-HD
- screw: steel, galvanised

max. static load: 2,500 N

Description

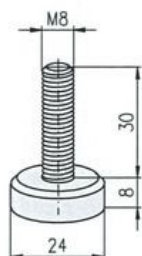
Floor levelling screw, SW20, M8×30

Weight

20 g

Article-No.

1.44.002003



Technical data

material:

- plate: PE-HD
- screw: steel, galvanised

max. static load: 2,500 N

Description

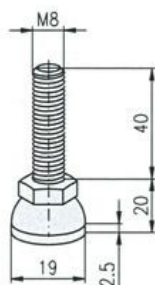
Floor levelling screw, Ø24, M8×30

Weight

22 g

Article-No.

1.44.002403



Technical data

material:

- foot plate: PA, black
- threaded bolt: steel, galvanised

max. static load: 500 N

with anti-slip-disc

Description

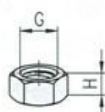
Levelling foot, PA, 20 M8×40

Weight

24 g

Article-No.

1.44.003020



Technical data

material: steel, galvanised

Description

Nut

G
M8

H
5

Weight

5 g

Article-No.

1.44.46M08

Hand adjustable feet

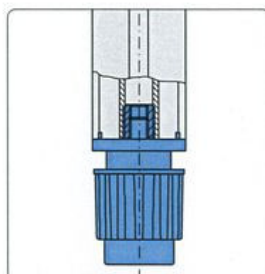


Application

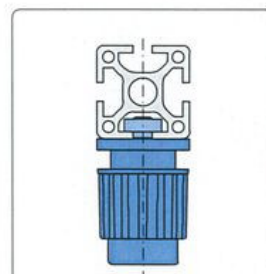
For manual levelling of benches, tables and light bases.



Height adjustable alternative
by hand or with tool



Fastening in core hole



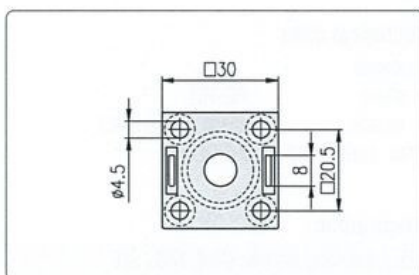
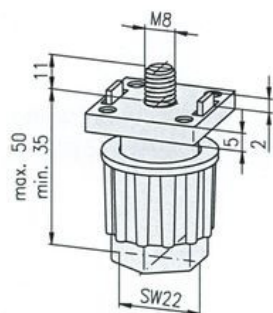
Fastening in slot

Technical data

material:

- capsule: PA, black
- spindle, nut and washer: steel galvanised

max. static load: 1,500 N



Description

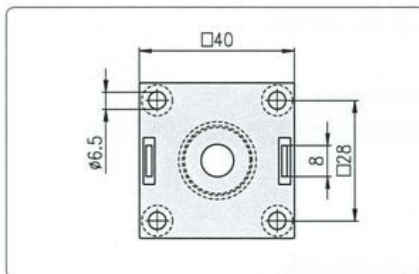
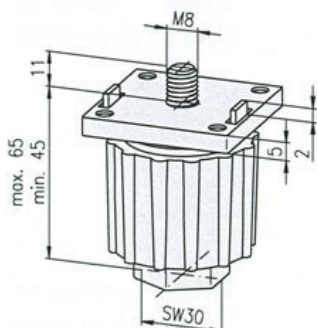
Hand adjustable foot 30

Weight

40 g

Article-No.

1.44.203008



Description

Hand adjustable foot 40

Weight

78 g

Article-No.

1.44.204008

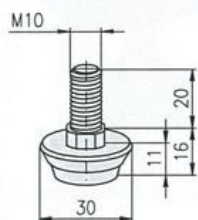
Levelling feet



Assembly

Fastening in core hole with threaded insert
M14/M10

For profiles with core hole-Ø 12 mm



Technical data

material:

- foot plate: PA, black
 - cap: steel, galvanised
 - screw thread: steel, galvanised
- max. static load: 1,500 N

Description

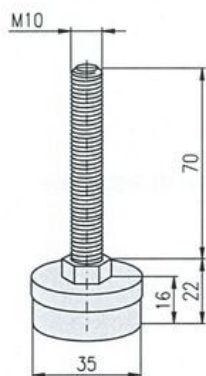
Levelling furniture foot, Ø30, M10x18

Weight

Article-No.

24 g

1.44.303002



Technical data

material:

- foot plate: PA, black
 - cap: steel, galvanised
 - screw thread: steel, galvanised
- max. static load: 1,500 N

Description

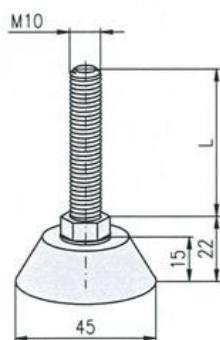
Levelling foot, Ø35, M10x70

Weight

Article-No.

70 g

1.44.303507



Technical data

material:

- foot plate: PA, black
 - screw thread: steel, galvanised
- max. static load: 1,500 N

Description

L

Weight

Article-No.

Levelling foot, Ø45, M10x50

60 g

1.44.304505

Levelling foot, Ø45, M10x70

69 g

1.44.304507

Adjustable tilt-feet



Application

Adjustable tilt-feet for gradual height adjustment of sub-assemblies such as:

- tables
- bases
- shelves
- stands



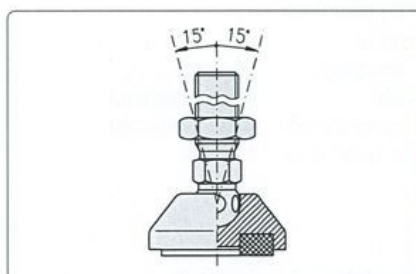
Fastening in core hole thread M14



Fastening with base plate, for profiles without centric core hole



Fastening by press-fit threaded insert across the profile

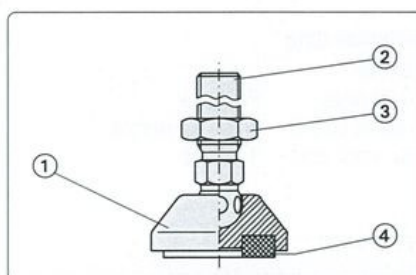


Levelling via ball and ball socket $\pm 15^\circ$

Comments

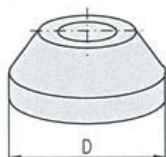
Infinitely variable adjustable tilt-feet for use either with:

- anti-slip disc
- cushion element



Adjustable tilt-feet - Single parts						
Pos.	Description	Material				
	Adjustable tilt-foot-	PA	GD-Zn	Steel	Stainl. steel	NBR 1.4305
①	plate	•	•		•	
②	spindle			•	•	
③	nut			•	•	
④	anti-slip disc cushion element					• •

Adjustable tilt-foot plates without mounting holes



Technical data

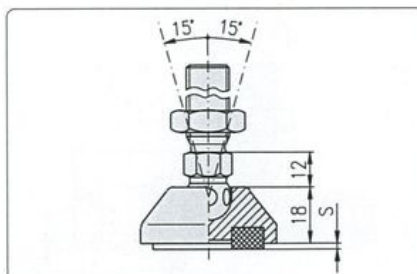
material:

PA: PA-GF, black

GD-Zn: GD-Zn, black powder-coated

stainless: stainless steel 1.4305

F = static load max. in kN



Design without mounting holes

S = height of:

- anti-slip disc (S = 2 mm)
- cushion element (S = 10 mm)

PA

Description	D	F	Weight	Article-No.
Adjustable tilt-foot plate PA, 30	Ø29	5 kN	8 g	1.44.411030
Adjustable tilt-foot plate PA, 40	Ø39	9 kN	13 g	1.44.411040
Adjustable tilt-foot plate PA, 45	Ø44	9 kN	15 g	1.44.411045
Adjustable tilt-foot plate PA, 50	Ø49	9 kN	16 g	1.44.411050
Adjustable tilt-foot plate PA, 60	Ø59	9 kN	22 g	1.44.411060

GD-Zn

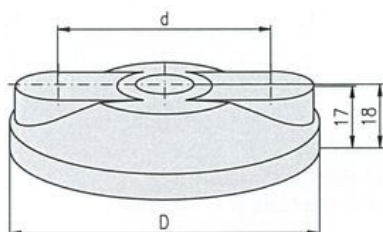
Adjustable tilt-foot plate GD-Zn, 30	Ø29	20 kN	48 g	1.44.431030
Adjustable tilt-foot plate GD-Zn, 40	Ø39	30 kN	70 g	1.44.431040
Adjustable tilt-foot plate GD-Zn, 45	Ø44	30 kN	90 g	1.44.431045
Adjustable tilt-foot plate GD-Zn, 50	Ø49	30 kN	126 g	1.44.431050
Adjustable tilt-foot plate GD-Zn, 60	Ø59	30 kN	160 g	1.44.431060
Adjustable tilt-foot plate GD-Zn, 80	Ø79	30 kN	260 g	1.44.431080
Adjustable tilt-foot plate GD-Zn, 100	Ø99	35 kN	400 g	1.44.431100
Adjustable tilt-foot plate GD-Zn, 120	Ø119	35 kN	584 g	1.44.431120

Stainless steel

C R

Adjustable tilt-foot plate, 30	Ø29	20 kN	62 g	1.44.431030V
Adjustable tilt-foot plate, 40	Ø39	30 kN	99 g	1.44.431040V
Adjustable tilt-foot plate, 45	Ø44	30 kN	123 g	1.44.431045V
Adjustable tilt-foot plate, 50	Ø49	35 kN	158 g	1.44.431050V
Adjustable tilt-foot plate, 60	Ø59	35 kN	218 g	1.44.431060V
Adjustable tilt-foot plate, 80	Ø79	35 kN	380 g	1.44.431080V
Adjustable tilt-foot plate, 100	Ø99	40 kN	605 g	1.44.431100V
Adjustable tilt-foot plate, 120	Ø119	40 kN	844 g	1.44.431120V

Adjustable tilt-foot plates with mounting holes

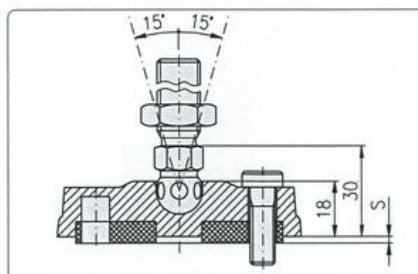


Technical data

material:

PA: PA-GF, black

F = static load max. in kN



Design with mounting holes

Comments

The holes for fastening screws are closed on the upper side and can be bored open if required.

S = height of:

- anti-slip disc (S = 2 mm)
- cushion element (S = 10 mm)

PA

Description	D	d	F	Weight	Article-No.
Adjustable tilt-foot plate PA, 80	Ø79	Ø54	9 kN	46 g	1.44.411080
Adjustable tilt-foot plate PA, 100	Ø99	Ø74	9 kN	86 g	1.44.411100
Adjustable tilt-foot plate PA, 120	Ø119	Ø94	9 kN	104 g	1.44.411120



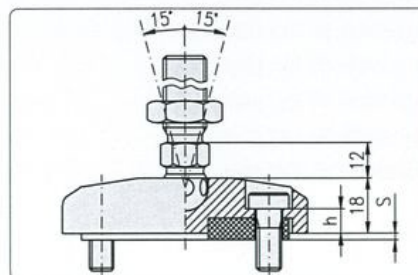
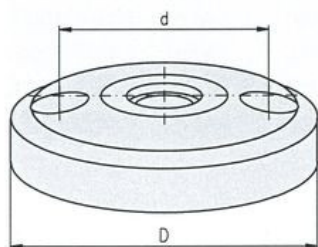
Technical data

material:

GD-Zn: GD-Zn, black powder-coated

stainless: stainless steel 1.4305
pickled and passivated

F = static load max. in kN



Design with mounting holes

Comments

Fixing drilling with counterbore DIN 74 - M8 for cap-screw DIN 6912-M8

S = height of:

- anti-slip disc (S = 2 mm)
- cushion element (S = 10 mm)

GD-Zn

Description	D	h	d	F	Weight	Article-No.
Adjustable tilt-foot plate steel, 80	Ø79	11.5	Ø54	30 kN	260 g	1.44.432080
Adjustable tilt-foot plate steel, 100	Ø99	11.5	Ø74	35 kN	377 g	1.44.432100
Adjustable tilt-foot plate steel, 120	Ø119	11.5	Ø94	35 kN	570 g	1.44.432120

Stainless steel



Description	D	h	d	F	Weight	Article-No.
Adjustable tilt-foot plate stainl., 80	Ø79	11.0	Ø54	30 kN	354 g	1.44.432080V
Adjustable tilt-foot plate stainl., 100	Ø99	11.0	Ø74	40 kN	587 g	1.44.432100V
Adjustable tilt-foot plate stainl., 120	Ø119	11.0	Ø94	40 kN	830 g	1.44.432120V

Adjustable tilt-foot spindles



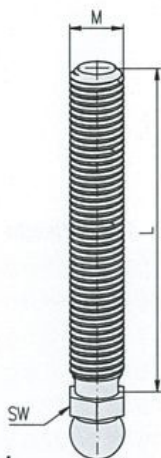
Technical data

material:

steel: steel, galvanised

stainless: stainless steel 1.4305,
pickled and passivated

Steel



Stainless steel

C R

Description

Description	G × L	SW	Weight	Article-No.
Adjustable tilt-foot spindle, steel	M8 × 40	14	17 g	1.44.4608040
Adjustable tilt-foot spindle, steel	M8 × 80	14	31 g	1.44.4608080
Adjustable tilt-foot spindle, steel	M10 × 45	14	37 g	1.44.4610045
Adjustable tilt-foot spindle, steel	M10 × 90	14	51 g	1.44.4610090
Adjustable tilt-foot spindle, steel	M12 × 66	14	56 g	1.44.4612066
Adjustable tilt-foot spindle, steel	M12 × 100	14	79 g	1.44.4612100
Adjustable tilt-foot spindle, steel	M14 × 66	14	87 g	1.44.4614066
Adjustable tilt-foot spindle, steel	M14 × 100	14	119 g	1.44.4614100
Adjustable tilt-foot spindle, steel	M14 × 150	14	166 g	1.44.4614150
Adjustable tilt-foot spindle, steel	M16 × 66	17	111 g	1.44.4616066
Adjustable tilt-foot spindle, steel	M16 × 100	17	155 g	1.44.4616100
Adjustable tilt-foot spindle, steel	M16 × 150	17	220 g	1.44.4616150
Adjustable tilt-foot spindle, steel	M20 × 100	22	237 g	1.44.4620100
Adjustable tilt-foot spindle, steel	M20 × 150	22	331 g	1.44.4620150
Adjustable tilt-foot spindle, stainless	M14 × 66	14	87 g	1.44.4614066V
Adjustable tilt-foot spindle, stainless	M14 × 88	14	104 g	1.44.4614088V
Adjustable tilt-foot spindle, stainless	M14 × 100	14	119 g	1.44.4614100V
Adjustable tilt-foot spindle, stainless	M14 × 125	14	138 g	1.44.4614125V
Adjustable tilt-foot spindle, stainless	M14 × 150	14	166 g	1.44.4614150V

Adjustable tilt-foot nuts



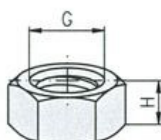
Technical data

material:

steel: steel, galvanised

stainless: stainless steel 1.4305,
pickled and passivated

Steel



Stainless steel

C R

Description	G	H	Weight	Article-No.
Nut	M8	5	5 g	1.44.46M08
Nut	M10	6	8 g	1.44.46M10
Nut	M12	7	10 g	1.44.46M12
Nut	M14	8	16 g	1.44.46M14
Nut	M16	8	17 g	1.44.46M16
Nut	M20	9	35 g	1.44.46M20
Nut, stainless	M14	8	16 g	1.44.46M14V

Adjustable tilt-foot anti-slip discs

C

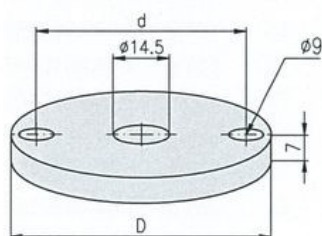
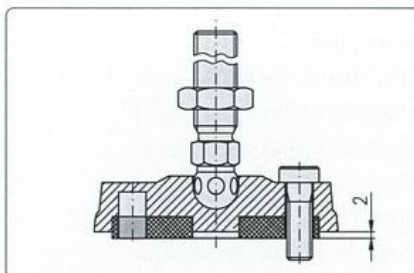


Application

Element for protection against dislocation and floor damage

Technical data

material: NBR, oil and water resistant
colour: black
hardness: 80 Shore A
F = static load max. in KN



Description

Description	D	d	F	Weight	Article-No.
Adj. tilt-foot anti-slip disc for plate 30	Ø20	-	5 kN	2.0 g	1.44.471030
Adj. tilt-foot anti-slip disc for plate 40	Ø30	-	6 kN	4.0 g	1.44.471040
Adj. tilt-foot anti-slip disc for plate 45	Ø35	-	7 kN	5.5 g	1.44.471045
Adj. tilt-foot anti-slip disc for plate 50	Ø39	-	8 kN	7.5 g	1.44.471050
Adj. tilt-foot anti-slip disc for plate 60	Ø49	-	9 kN	12.0 g	1.44.471060
Adj. tilt-foot anti-slip disc for plate 80	Ø67	Ø54	10 kN	22.0 g	1.44.471080
Adj. tilt-foot anti-slip disc for plate 100	Ø87	Ø74	10 kN	36.0 g	1.44.471100
Adj. tilt-foot anti-slip disc for plate 120	Ø107	Ø94	10 kN	57.0 g	1.44.471120

Adjustable tilt-foot cushion elements

C

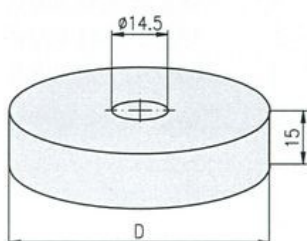
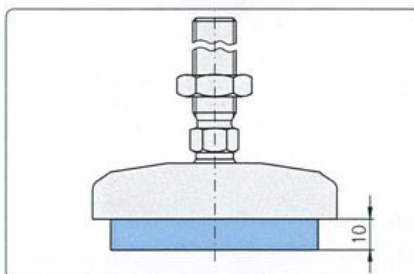


Application

Cushion elements

Technical data

material: NBR, oil and water resistant
colour: black
hardness: 70 Shore A
F = static load max. in N



Description

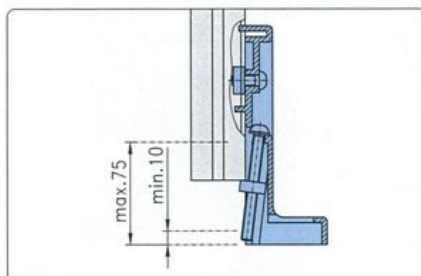
Description	D	F	Weight	Article-No.
Adj. tilt-foot cushion element for plate 40	Ø30	150 N	14 g	1.44.472040
Adj. tilt-foot cushion element for plate 45	Ø35	175 N	19 g	1.44.472045
Adj. tilt-foot cushion element for plate 50	Ø39	200 N	24 g	1.44.472050
Adj. tilt-foot cushion element for plate 60	Ø49	250 N	35 g	1.44.472060
Adj. tilt-foot cushion element for plate 80	Ø67	500 N	68 g	1.44.472080
Adj. tilt-foot cushion element for plate 100	Ø87	800 N	118 g	1.44.472100
Adj. tilt-foot cushion element for plate 120	Ø107	1,200 N	188 g	1.44.472120

Angular adjusting feet



Application

For fastening of frames to floor or wall

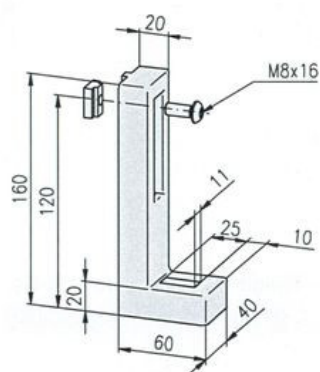


Technical data

material:

- base body: GD-Al, black
- nuts: steel galvanised
- screws: steel galvanised

max. static load: 10,000 N



Delivery unit

- base body
- nut M8
- screw M8x14 - 10.9

Description

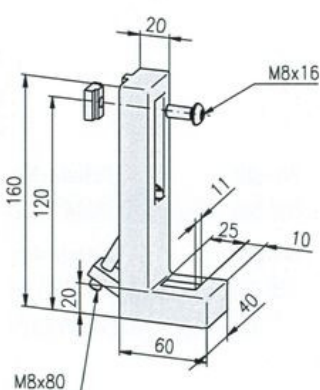
Angular adjusting foot without adjusting screw

Weight

468 g

Article-No.

1.44.716001



Delivery unit:

- base body
- nut M8
- screw M8x14 - 10.9
- screw M8x80 - 10.9
- square nut

Description

Angular adjusting foot with adjusting screw

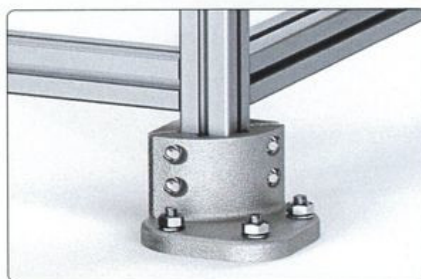
Weight

519 g

Article-No.

1.44.716002

Base foot for profile 40×40

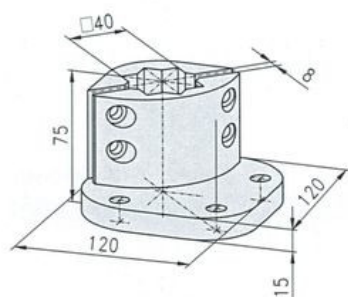
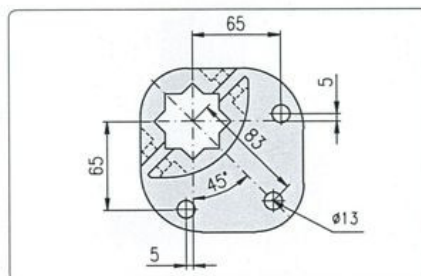


Application

Base feet for fastening profiles and frames to floor or wall

Technical data

material: GD-Zn



Description

Base foot for profile 40×40

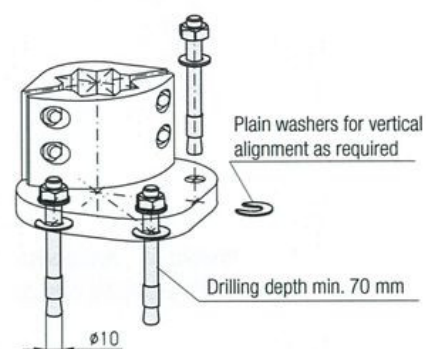
Weight

979 g

Article-No.

1.44.83040

Floor mounting set



Description

Floor mounting set 3 MKT

Weight

202.3 g

Article-No.

1.44.83BB

Single parts

Pin anchor MKT, B10/20/95

Pcs.

3

Weight

65.3 g

Article-No.

0.66.MKT.B1020-95

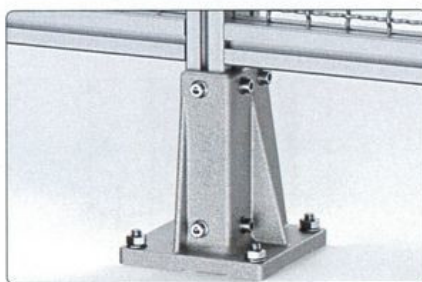
Plain washer 1×Ø24/11

8

0.8 g

1.44.89011324

Base feet

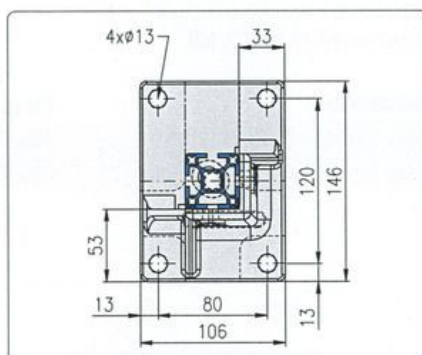
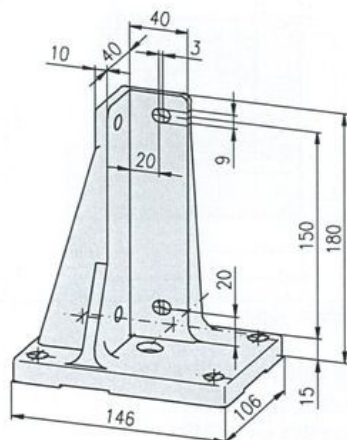


Application

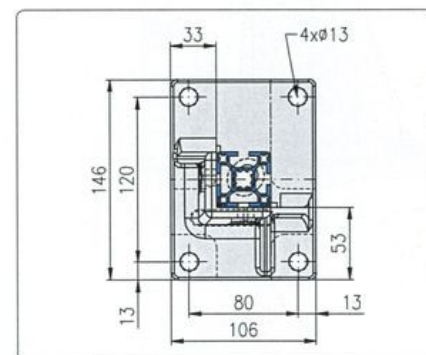
Base feet for fastening profiles and frames to floor or wall

Technical data

material: GK AlZn 10Si8Mg



40x40, type 1, left



40x40, type 1, right

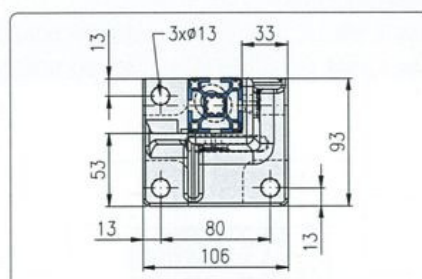
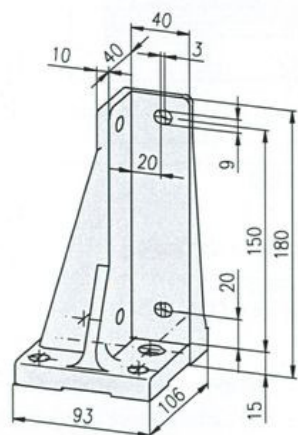
Comments

3D picture shows type 1, right
mirror-inverted: type 1, left

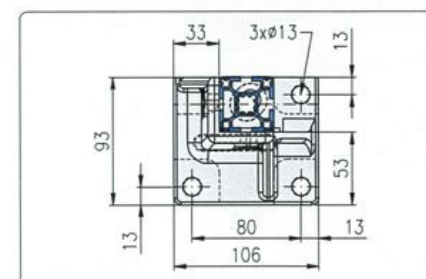
Mounting sets (→ 4.42, 4.43)

Floor mounting set 4 MKT
Profile mounting set 4 EM8

Description	for profile	Weight	Article-No.
Base foot 40x40, type 1, left	40x40, 45x45	1.06 kg	1.44.84.4040.00L
Base foot 40x40, type 1, right	40x40, 45x45	1.06 kg	1.44.84.4040.00R



40x40, type 2, left



40x40, type 2, right

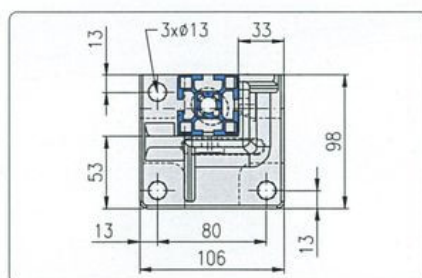
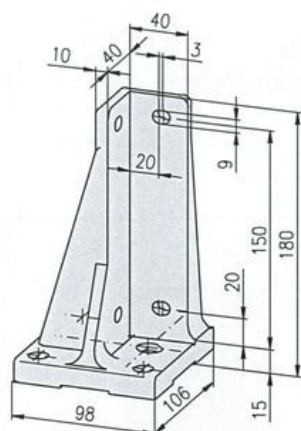
Comments

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mirror-inverted: type 2, left

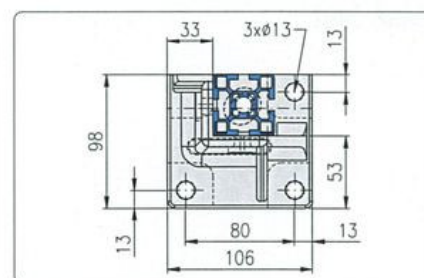
Mounting sets (→ 4.42, 4.43)

Floor mounting set 3 MKT
Profile mounting set 4 EM8

Description	for profile	Weight	Article-No.
Base foot 40x40, type 2, left	40x40	0.83 kg	1.44.84.4040.40L
Base foot 40x40, type 2, right	40x40	0.83 kg	1.44.84.4040.40R



45×45, type 2, left



45×45, type 2, right

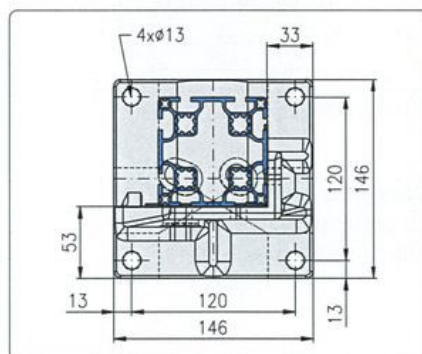
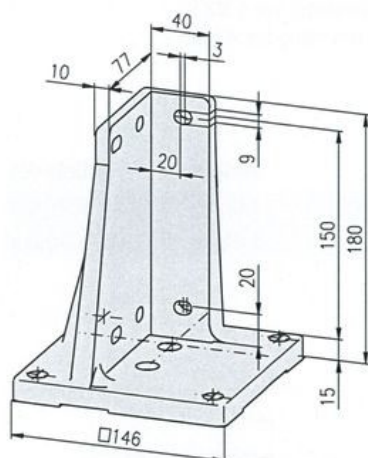
Comments

3D picture shows type 2, right
mirror-inverted: type 2, left

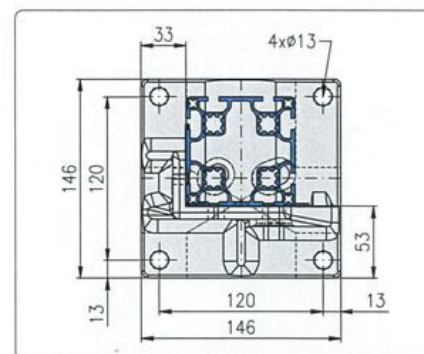
Mounting sets (→ 4.42, 4.43)

Floor mounting set 3 MKT
Profile mounting set 4 EM8

Description	for profile	Weight	Article-No.
Base foot 45×45, type 2, left	45×45	0.85 kg	1.44.84.4545.45L
Base foot 45×45, type 2, right	45×45	0.85 kg	1.44.84.4545.45R



40×80, type 1, left



40×80, type 1, right

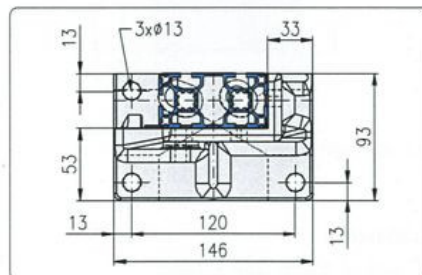
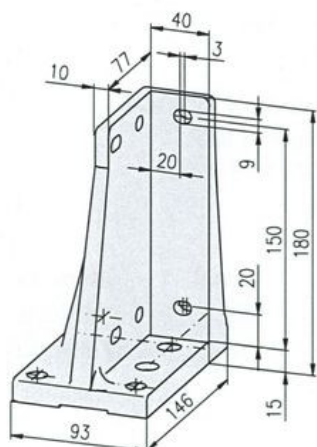
Comments

3D picture shows type 1, right
mirror-inverted: type 1, left

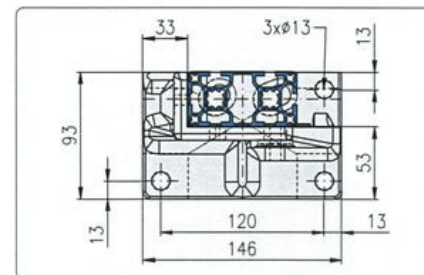
Mounting sets (→ 4.42, 4.43)

Floor mounting set 4 MKT
Profile mounting set 6 EM8

Description	for profile	Weight	Article-No.
Base foot 40×80, type 1, left	40×80, 60×80, 80×80, 45×90	1.39 kg	1.44.84.4080.00L
type 1, right	40×80, 60×80, 80×80, 45×90	1.39 kg	1.44.84.4080.00R



40×80, type 2, left



40×80, type 2, right

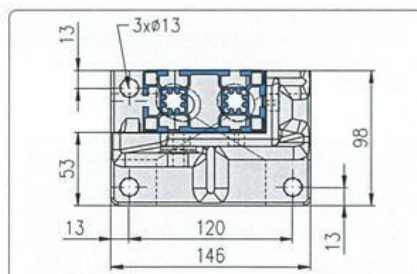
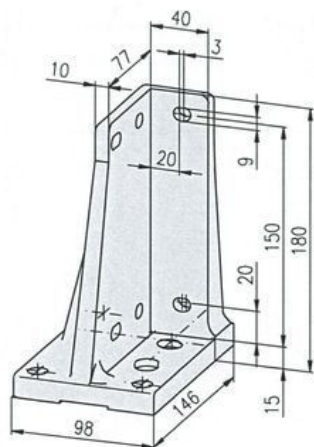
Comments

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mirror-inverted: type 2, left

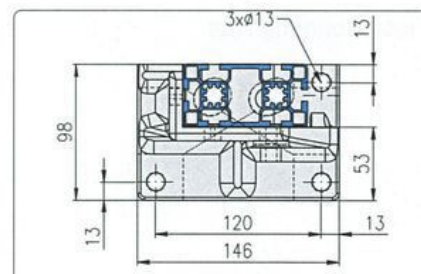
Mounting sets (→ 4.42, 4.43)

Floor mounting set 3 MKT
Profile mounting set 6 EM8

Description	for profile	Weight	Article-No.
Base foot 40×80, type 2, left	40×80	1.01 kg	1.44.84.4080.40L
Base foot 40×80, type 2, right	40×80	1.01 kg	1.44.84.4080.40R



45×90, type 2, left



45×90, type 2, right

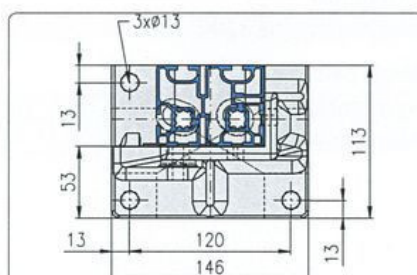
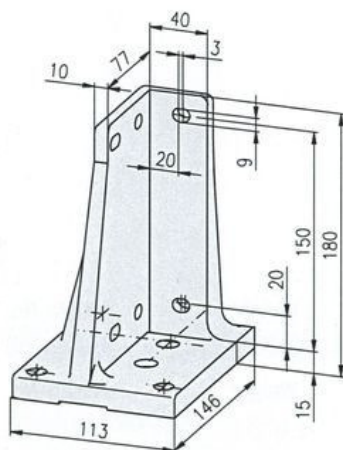
Comments

3D picture shows type 2, right
mirror-inverted: type 2, left

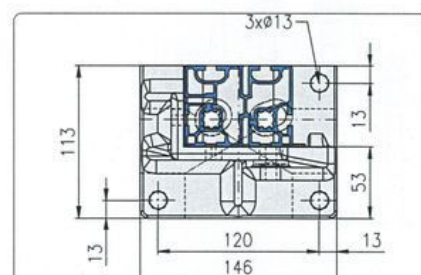
Mounting sets (→ 4.42, 4.43)

Floor mounting set 3 MKT
Profile mounting set 6 EM8

Description	for profile	Weight	Article-No.
Base foot 45×90, type 2, left	45×90	1.10 kg	1.44.84.4590.45L
Base foot 45×90, type 2, right	45×90	1.10 kg	1.44.84.4590.45R



60×80, type 2, left



60×80, type 2, right

Comments

3D picture shows type 2, right
mirror-inverted: type 2, left

Mounting sets (→ 4.42, 4.43)

Floor mounting set 3 MKT
Profile mounting set 6 EM8

Description	for profile	Weight	Article-No.
Base foot 60×80, type 2, left	60×80	1.25 kg	1.44.84.6080.60L
Base foot 60×80, type 2, right	60×80	1.25 kg	1.44.84.6080.60R

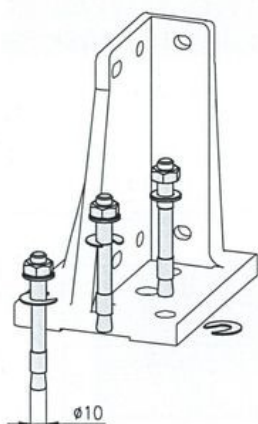
Floor mounting sets

Cross-reference list for base feet and floor mounting sets

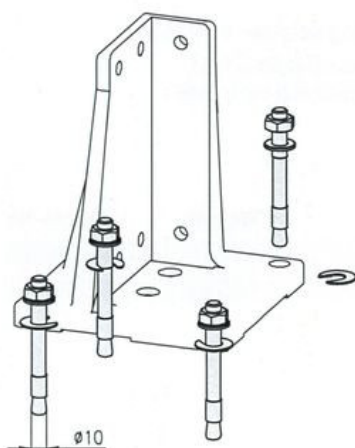
Base foot	Article-No.	Floor mounting set	
		3 MKT, 1.44.83BB	4 MKT, 1.44.84BB
40×40, type 1, le/ri	1.44.84.4040.00x		•
40×40, type 2, le/ri	1.44.84.4040.40x	•	
40×80, type 1, le/ri	1.44.84.4080.00x		•
40×80, type 2, le/ri	1.44.84.4080.40x	•	
45×45, type 2, le/ri	1.44.84.4545.45x	•	
45×90, type 2, le/ri	1.44.84.4590.45x	•	
60×80, type 2, le/ri	1.44.84.6080.60x	•	

Comments

- Drilling depth min. 70 mm
- Plain washers for vertical alignment as required



Description		Weight	Article-No.
Floor mounting set 3 MKT		202.3 g	1.44.83BB
Single parts	Pcs.	Weight	Article-No.
Pin anchor MKT, B10/20/95	3	65.3 g	0.66.MKT.B1020-95
Plain washer 1×Ø24/11	8	0.8 g	1.44.89011324



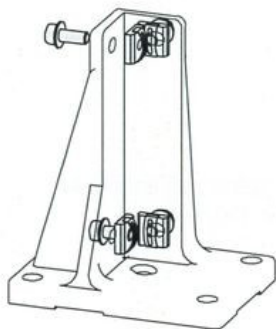
Description		Weight	Article-No.
Floor mounting set 4 MKT		269.2 g	1.44.84BB
Single parts	Pcs.	Weight	Article-No.
Pin anchor MKT, B10/20/95	4	65.3 g	0.66.MKT.B1020-95
Plain washer 1×Ø24/11	10	0.8 g	1.44.89011324

Profile mounting sets

Application

Suitable for mounting of the profiles:

- 40×40
- 45×45

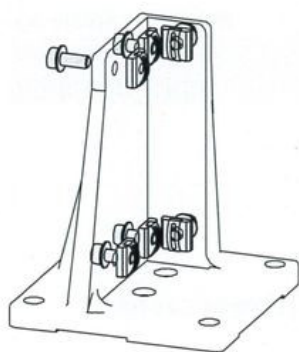


Description	Weight	Article-No.
Profile mounting set 4 EM8	112.4 g	1.44.80BP40.20
Single parts	Pcs.	Weight
Threaded plate, heavy, E M8	4	16.3 g
Collar screw WN 251 M8×20	4	11.8 g

Application

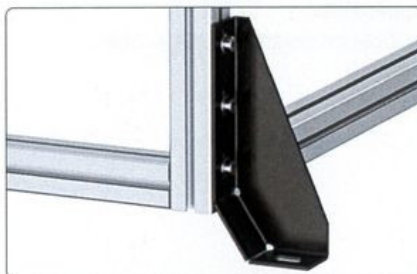
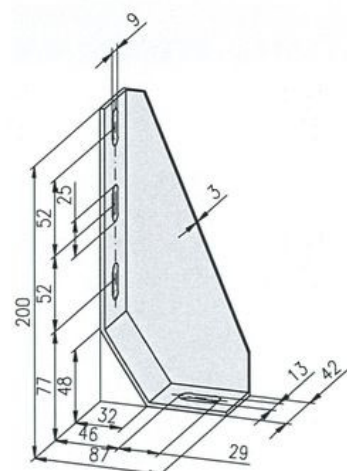
Suitable for mounting of the profiles:

- 40×80
- 45×90
- 60×80, panel



Description	Weight	Article-No.
Profile mounting set 6 EM8	168.6 g	1.44.80BP80.20
Single parts	Pcs.	Weight
Threaded plate, heavy, E M8	6	16.3 g
Collar screw WN 251 M8×20	6	11.8 g

Base angle



Application

For fastening of frames to floor or wall



Suitable for use together with levelling feet
with max. diameter 100 mm

Technical data

material: sheet steel
surface: galvanised and black coated

Comments

Picture shows base angle, left
mirror-inverted: base angle, right

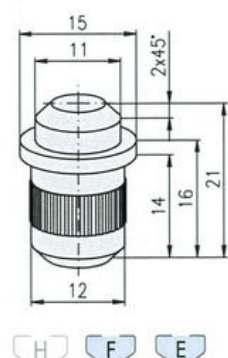
Description

Base angle 200×87×42, left
Base angle 200×87×42, right

Weight Article-No.

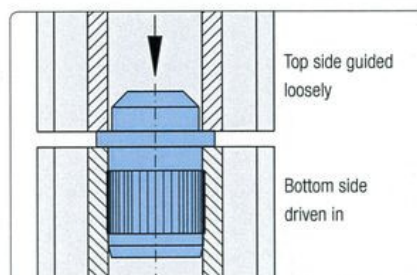
Description	Weight	Article-No.
Base angle 200×87×42, left	413 g	1.44.820001L
Base angle 200×87×42, right	413 g	1.44.820001R

Stacking foot



Application

Element to fix 2 profiles in core hole



Technical data

material: steel
surface: galvanised

Description

Stacking foot

Weight Article-No.

Description	Weight	Article-No.
Stacking foot	19 g	1.44.901221

Fundamental - Requirements

What requirements do you have for your application? It is important aspect to know what you require from your castors and wheels. Get to know the most important characteristics, define your requirements and find the right product for your needs.

Load capacity

The load capacity per roller is determined by the sum of the weight of the transport device and the maximum payload divided by 3:

$$\frac{\text{Total weight}}{3}$$

Height

The height of a castor is described as the total height when installed.

Wheel diameter

The larger the diameter, the easier obstacles are overcome.

Temperature resistance

Castors and wheels for applications from -40°C to +80°C are available.

Electrically conductive

To avoid electrostatic discharge, we offer castors and wheels in electrically conductive design.

Corrosion resistance

For castors and wheels used in humid environments or in contact with aggressive substances, TENTE offers versions with durable materials and surfaces.

Mounting

Bolt hole
Plate

Simple central screw connection
Plate with multiple screw connection

Brake

Wheel lock
Directional lock
Total lock
Central braking

Prevents the rotation of the wheel
Fixes the running direction of the movement
Fixes the rotation and pivotal movement of the wheel
Simultaneously fixes multiple castors

Bearing

Bearings
Roller bearing
Precision ball bearing

Standard bearings, robust, moisture-resistant
Standard bearings, robust, smooth running
High performance bearings, for all areas

Floor contact

Soft floors
Hard floors

Harder wheels recommended
Softer wheels recommended

Tread

Soft materials
Hard materials

Lower driving noise, stronger damping, higher protection of the cargo
Increased driving noise, lower damping, less protection of the cargo

Wear resistance

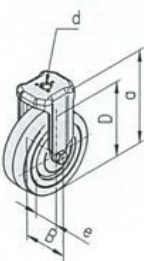
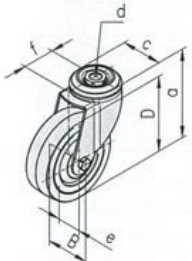
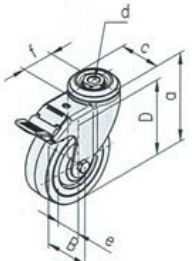
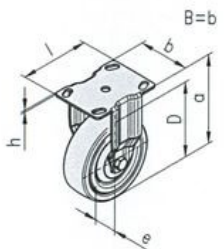
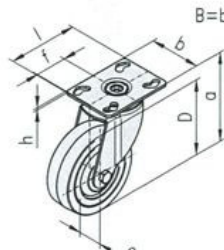
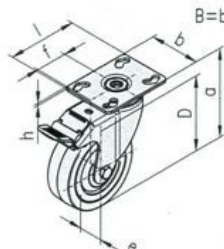
Flat ground
Uneven ground

Lower rolling resistance, abrasion and wear
Higher rolling resistance, abrasion and wear

1.□□.□□□□□□	Key
1.□□.□□□□□□	The Profile System
1.45.□□□□□□	Castors
1.□□.□□□□□□	Type of castor:
1.□□.1□□□□□	Fixed castor
1.□□.2□□□□□	Swivel castor
1.□□.3□□□□□	Swivel castor, lockable
1.□□.□□□□□□	Fastening: Dimensions  4.50
1.□□.□1□□□□	Bolt hole
1.□□.□2□□□□	Fitting plate
1.□□.□□□□□□	Wheel diameter [mm]:
1.□□.□□050□	Ø50
1.□□.□□075□	Ø75
1.□□.□□100□	Ø100
1.□□.□□125□	Ø125
1.□□.□□□□□□	Conductivity:
1.□□.□□□□□□E	ESD

	
Series	1A
Application	High-quality steel castor for light transport equipment
Type	
Fixed castor	•
Swivel castor	•
Swivel castor lockable	•
Fastening	
Bolt hole	•
Fitting plate	•
Housing	Sheet steel, bright zinc plated, blue passivated
Bearing	Ball bearing
Thread guard	from wheel Ø75 mm
Wheel	
Wheel body	Polyamide
Tread	high-quality solid rubber, grey, non-marking
Wheel (ESD) 	
Wheel body	Polypropylene
Tread	high-quality solid rubber, black
Advantages	
Roll performance	•••••
Movement noise	•••••
Attrition	•••••
Corrosion resistance	•••••

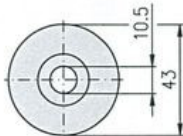
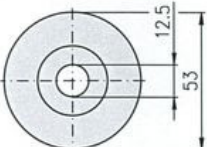
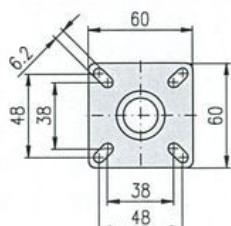
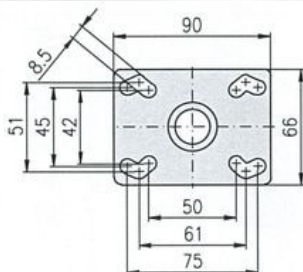
Castor	Description	Series	Wheel- Ø D [mm]	Overall height a [mm]	Load capacity [N]	Weight [g]	Article-No.
	Fixed castor with bolt hole	1A	50	69	400	130	1.45.11050
	Fixed castor with bolt hole	1A	75	98	550	240	1.45.11075
	Fixed castor with bolt hole, ESD	1A	75	98	550	240	1.45.11075E
	Fixed castor with bolt hole	1A	100	133	800	500	1.45.11100
	Fixed castor with bolt hole, ESD	1A	100	133	800	500	1.45.11100E
	Fixed castor with bolt hole	1A	125	158	1,000	900	1.45.11125
	Swivel castor with bolt hole	1A	50	69	400	180	1.45.21050
	Swivel castor with bolt hole	1A	75	98	550	310	1.45.21075
	Swivel castor with bolt hole, ESD	1A	75	98	550	310	1.45.21075E
	Swivel castor with bolt hole	1A	100	133	800	680	1.45.21100
	Swivel castor with bolt hole, ESD	1A	100	133	800	680	1.45.21100E
	Swivel castor with bolt hole	1a	125	158	1,000	890	1.45.21125
	Swivel castor, lockable with bolt hole	1A	50	69	400	220	1.45.31050
	Swivel castor, lockable with bolt hole	1A	75	98	550	450	1.45.31075
	Swivel castor, lockable with bolt hole, ESD	1A	75	98	550	450	1.45.31075E
	Swivel castor, lockable with bolt hole	1A	100	133	800	840	1.45.31100
	Swivel castor, lockable with bolt hole, ESD	1A	100	133	800	840	1.45.31100E
	Swivel castor, lockable with bolt hole	1A	125	158	1,000	990	1.45.31125
	Fixed castor with fitting plate	1A	50	71	400	190	1.45.12050
	Fixed castor with fitting plate	1A	75	100	550	300	1.45.12075
	Fixed castor with fitting plate, ESD	1A	75	100	550	300	1.45.12075E
	Fixed castor with fitting plate	1A	100	136	800	610	1.45.12100
	Fixed castor with fitting plate, ESD	1A	100	136	800	610	1.45.12100E
	Fixed castor with fitting plate	1A	125	161	1,000	1,010	1.45.12125
	Swivel castor with fitting plate	1A	50	71	400	230	1.45.22050
	Swivel castor with fitting plate	1A	75	100	550	360	1.45.22075
	Swivel castor with fitting plate, ESD	1A	75	100	550	360	1.45.22075E
	Swivel castor with fitting plate	1A	100	136	800	780	1.45.22100
	Swivel castor with fitting plate, ESD	1A	100	136	800	780	1.45.22100E
	Swivel castor with fitting plate	1A	125	161	1,000	990	1.45.22125
	Swivel castor, lockable with fitting plate	1A	50	71	400	270	1.45.32050
	Swivel castor, lockable with fitting plate	1A	75	100	550	500	1.45.32075
	Swivel castor, lockable with fitting plate, ESD	1A	75	100	550	500	1.45.32075E
	Swivel castor, lockable with fitting plate	1A	100	136	800	940	1.45.32100
	Swivel castor, lockable with fitting plate, ESD	1A	100	136	800	940	1.45.32100E
	Swivel castor, lockable with fitting plate	1A	125	161	1,000	1,090	1.45.32125

		Castor width B [mm]	Dome- Ø c [mm]	Bolt hole-Ø d [mm]	Wheel width e [mm]	Offset f [mm]	Swivel interference-Ø [mm]	Size of plate l × b × h [mm]	Plate hole spacing [mm]	Plate hole-Ø [mm]
		36 44 44 55 55 55		11 11 11 13 13 13	18 25 25 32 32 32					
		43 44 44 57 57 57	43 43 43 57 57 57	11 11 11 13 13 13	18 25 25 32 32 32	23 29 29 40 40 40	96 133 133 182 182 205			
		43 44 44 57 57 57	43 43 43 57 57 57	11 11 11 13 13 13	18 25 25 32 32 32	24 28 28 40 40 40	140 147 147 212 212 211			
		60 60 60 66 66 66			18 25 25 32 32 32			60 × 60 × 2 60 × 60 × 2 60 × 60 × 2 90 × 66 × 3 90 × 66 × 3 90 × 66 × 3	48/38 × 48/38 48/38 × 48/38 48/38 × 48/38 75/61/50 × 45/51/42 75/61/50 × 45/51/42 75/61/50 × 45/51/42	6.2 6.2 6.2 8.5 8.5 8.5
		60 60 60 66 66 66			18 25 25 32 32 32	23 29 29 40 40 40	96 133 133 180 180 205	60 × 60 × 2 60 × 60 × 2 60 × 60 × 2 90 × 66 × 3 90 × 66 × 3 90 × 66 × 3	48/38 × 48/38 48/38 × 48/38 48/38 × 48/38 75/61/50 × 45/51/42 75/61/50 × 45/51/42 75/61/50 × 45/51/42	6.2 6.2 6.2 8.5 8.5 8.5
		60 60 60 66 66 66			18 25 25 32 32 32	24 28 28 40 40 40	140 147 147 212 212 211	60 × 60 × 2 60 × 60 × 2 60 × 60 × 2 90 × 66 × 3 90 × 66 × 3 90 × 66 × 3	48/38 × 48/38 48/38 × 48/38 48/38 × 48/38 75/61/50 × 45/51/42 75/61/50 × 45/51/42 75/61/50 × 45/51/42	6.2 6.2 6.2 8.5 8.5 8.5

 Castor fastening: Dimensions  4.50

Castor fastening

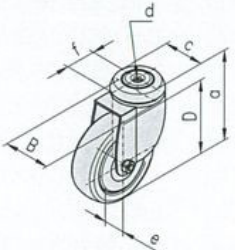
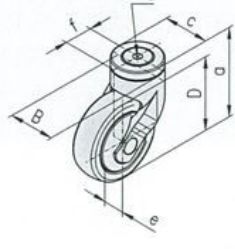
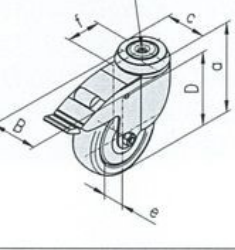
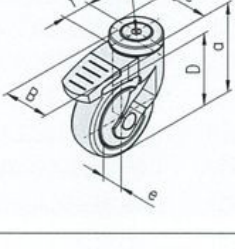
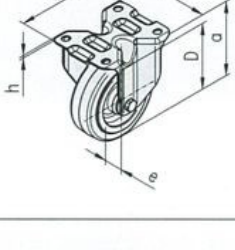
Series 1A

Castor-Ø [mm]	50 / 75	100 / 125
Bolt hole type		
Fitting plate type		

1.□□.□□□□□□□□.□□□□	Key
1.□□.□□□□□□□□.□□□□	The Profile System
1.45.□□□□□□□□.□□□□	Castors
1.□□.□□□□□□□□.□□□□	Manufacturer:
1.□□.2□□□□□□□.□□□□	Series 2
1.□□.□□□□□□□□.□□□□	Series / letter
1.□□.□□□□□□□□.□□□□	Type of castor:
1.□□.□□□1□□□□.□□□□	Fixed castor
1.□□.□□□2□□□□.□□□□	Swivel castor
1.□□.□□□3□□□□.□□□□	Swivel castor, lockable
1.□□.□□□□□□□□.□□□□	Fastening: Dimensions  4.58
1.□□.□□□□1□□□.□□□□	Bolt hole
1.□□.□□□□2□□□.□□□□	Fitting plate
1.□□.□□□□□□□□.□□□□	Wheel diameter [mm]:
1.□□.□□□□050□□□□	Ø50
1.□□.□□□□075□□□□	Ø75
1.□□.□□□□100□□□□	Ø100
1.□□.□□□□125□□□□	Ø125
1.□□.□□□□150□□□□	Ø150
1.□□.□□□□160□□□□	Ø160
1.□□.□□□□200□□□□	Ø200
1.□□.□□□□□□□□.□□□□	Load capacity [N]
1.□□.□□□□□□□□.□□□□	ESD:
1.□□.□□□□□□□□.□□□1	w/o
1.□□.□□□□□□□□.□□□2	Electrically conductive
1.□□.□□□□□□□□.□□□3	Antistatic

				
Series	2A	2B	2C	2D
Application	High-quality steel castor for light transport equipment	Solid steel castor for the transport of shock-sensitive goods	Design castor with damping properties	Design castor with excellent running properties for all indoor floors
Type				
Fixed castor		•		
Swivel castor	•	•	•	•
Swivel castor lockable	•	•	•	•
Fastening				
Bolt hole	•		•	
Fitting plate		•	•	•
Housing	Sheet steel, bright zinc plated, blue passivated, swivel bearing with double ball race	Sheet steel, bright zinc plated, blue passivated, swivel bearing with double ball race, swivel bearing protection, wheel axle bolted	High-quality plastic, swivel bearing with double ball race	Load-bearing housing made of high-quality plastic, precision ball bearing as swivel bearing
Bearing	Precision ball bearing	Roller bearing	Precision ball bearing	Precision ball bearing
Thread guard	•		•	•
Wheel				
Wheel body	Polypropylene	Polyamide	Polypropylene	Polyamide
Tread	Thermoplastic rubber, non-marking	non-marking elastic tyre	Thermoplastic rubber, non-marking	Polyurethan
Wheel (ESD) 				
Wheel body	Polyamide, electrically conductive	Stainless steel	Polyamide, electrically conductive	Polyamide, electrically conductive
Tread	Injected polyurethane	Solid rubber, black	Injected polyurethane	Injected polyurethane
Advantages				
Roll performance	● ● ● ○ ○	● ● ● ○ ○	● ● ● ○ ○	● ● ● ● ●
Movement noise	● ● ● ○ ○	● ● ● ● ●	● ● ● ○ ○	● ● ● ○ ○
Attrition	● ● ● ● ○	● ● ● ○ ○	● ● ● ○ ○	● ● ● ● ○
Corrosion resistance	● ● ● ○ ○	● ● ● ○ ○	● ● ● ○ ○	● ● ● ● ○

Castor	Description	Series	Wheel- Ø D [mm]	Overall height a [mm]	Load capacity [N]	Weight [g]	Article-No.
	Swivel castor with bolt hole	2A	50	69	400	142	1.45.2A21050.0401
	Swivel castor with bolt hole	2A	75	100	750	252	1.45.2A21075.0751
	Swivel castor with bolt hole	2A	100	135	1,000	584	1.45.2A21100.1001
	 Swivel castor with bolt hole, ESD	2A	100	135	1,000	584	1.45.2A21100.1002
	Swivel castor with bolt hole	2A	125	160	1,000	661	1.45.2A21125.1001
	 Swivel castor with bolt hole, ESD	2A	125	160	1,000	661	1.45.2A21125.1002
	Swivel castor with bolt hole	2A	150	185	1,000	833	1.45.2A21150.1001
	 Swivel castor with bolt hole, ESD	2A	150	185	1,000	833	1.45.2A21150.1002
	Swivel castor with bolt hole	2C	100	137	1,000	429	1.45.2C21100.1001
	 Swivel castor with bolt hole, ESD	2C	100	137	1,000	468	1.45.2C21100.1002
	Swivel castor with bolt hole	2C	125	161	1,000	533	1.45.2C21125.1001
	 Swivel castor with bolt hole, ESD	2C	125	161	1,000	602	1.45.2C21125.1002
	Swivel castor with bolt hole	2C	150	190	1,000	626	1.45.2C21150.1001
	Swivel castor, lockable with bolt hole	2A	50	69	400	184	1.45.2A31050.0401
	Swivel castor, lockable with bolt hole	2A	75	100	750	297	1.45.2A31075.0751
	Swivel castor, lockable with bolt hole	2A	100	135	1,000	760	1.45.2A31100.1001
	 Swivel castor, lockable with bolt hole, ESD	2A	100	135	1,000	760	1.45.2A31100.1002
	Swivel castor, lockable with bolt hole	2A	125	160	1,000	833	1.45.2A31125.1001
	 Swivel castor, lockable with bolt hole, ESD	2A	125	160	1,000	833	1.45.2A31125.1002
	Swivel castor, lockable with bolt hole	2A	150	185	1,000	981	1.45.2A31150.1001
	 Swivel castor, lockable with bolt hole, ESD	2A	150	185	1,000	981	1.45.2A31150.1002
	Swivel castor, lockable with bolt hole	2C	100	137	1,000	474	1.45.2C31100.1001
	 Swivel castor, lockable with bolt hole, ESD	2C	100	137	1,000	503	1.45.2C31100.1002
	Swivel castor, lockable with bolt hole	2C	125	161	1,000	577	1.45.2C31125.1001
	 Swivel castor, lockable with bolt hole, ESD	2C	125	161	1,000	648	1.45.2C31125.1002
	Swivel castor, lockable with bolt hole	2C	150	190	1,000	688	1.45.2C31150.1001
	Fixed castor with fitting plate	2B	100	128	1,600	494	1.45.2B12100.1601
	 Fixed castor with fitting plate, ESD	2B	100	128	700	511	1.45.2B12100.0702
	Fixed castor with fitting plate	2B	125	155	2,500	814	1.45.2B12125.2501
	 Fixed castor with fitting plate, ESD	2B	125	155	1,000	918	1.45.2B12125.1002
	Fixed castor with fitting plate	2B	160	200	3,000	1,741	1.45.2B12160.3001
	 Fixed castor with fitting plate, ESD	2B	160	200	1,350	1,772	1.45.2B12160.1352
	Fixed castor with fitting plate	2B	200	240	4,000	2,251	1.45.2B12200.4001
	 Fixed castor with fitting plate, ESD	2B	200	240	2,050	2,795	1.45.2B12200.2051

		Castor width B [mm]	Dome- Ø c [mm]	Bolt hole-Ø d [mm]	Wheel width e [mm]	Offset f [mm]	Swivel interfer- ence-Ø [mm]	Size of plate l × b × h [mm]	Plate hole spacing [mm]	Plate hole-Ø [mm]
		43	41	11	18	24	98			
		43	43	11	25	24	123			
		60	60	11	32	38	176			
		60	60	11	32	38	176			
		60	60	11	32	41	207			
		60	60	11	32	41	207			
		60	60	11	32	45	240			
		60	60	11	32	45	240			
		59	59	11	32	36	172			
		59	59	11	32	36	172			
		59	59	11	32	38	201			
		59	59	11	32	38	201			
		59	59	11	32	38	226			
		43	41	11	18	24	164			
		43	43	11	25	24	160			
		60	60	11	32	38	262			
		60	60	11	32	38	262			
		60	60	11	32	41	262			
		60	60	11	32	41	262			
		60	60	11	32	45	262			
		60	60	11	32	45	262			
		59	59	11	32	36	196			
		59	59	11	32	32	196			
		59	59	11	32	38	201			
		59	59	11	32	38	201			
		59	59	11	32	38	240			
		85			34			103 × 85 × 2	80/77 × 60	9.0
		85			30			103 × 85 × 2	80/77 × 60	9.0
		85			40			103 × 85 × 2	80/77 × 60	9.0
		85			37			103 × 85 × 2	80/77 × 60	9.0
		115			46			137 × 115 × 3	105 × 80/75	11.0
		115			40			137 × 115 × 3	105 × 80/75	11.0
		115			46			137 × 115 × 3	105 × 80/75	11.0
		115			50			137 × 115 × 3	105 × 80/75	11.0

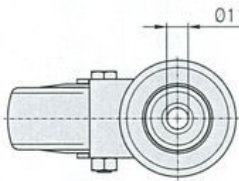
Castor fastening: Dimensions  4.58

Castor	Description	Series	Wheel- Ø D [mm]	Overall height a [mm]	Load capacity [N]	Weight [g]	Article-No.
	Swivel castor with fitting plate	2B	100	128	1,600	810	1.45.2B22100.1601
	Swivel castor with fitting plate, ESD	2B	100	128	700	875	1.45.2B22100.0702
	Swivel castor with fitting plate	2B	125	155	2,500	1,030	1.45.2B22125.2501
	Swivel castor with fitting plate, ESD	2B	125	155	1,000	1,150	1.45.2B22125.1002
	Swivel castor with fitting plate	2B	160	200	3,000	2,187	1.45.2B22160.3001
	Swivel castor with fitting plate, ESD	2B	160	200	1,350	2,376	1.45.2B22160.1352
	Swivel castor with fitting plate	2B	200	240	4,000	2,669	1.45.2B22200.4001
	Swivel castor with fitting plate, ESD	2B	200	240	2,050	2,904	1.45.2B22200.2051
	Swivel castor with fitting plate	2C	100	137	1,000	471	1.45.2C22100.1001
	Swivel castor with fitting plate, ESD	2C	100	137	1,000	499	1.45.2C22100.1002
	Swivel castor with fitting plate	2C	125	161	1,000	562	1.45.2C22125.1001
	Swivel castor with fitting plate, ESD	2C	125	161	1,000	633	1.45.2C22125.1002
	Swivel castor with fitting plate	2C	150	190	1,000	669	1.45.2C22150.1001
	Swivel castor with fitting plate	2D	100	125	1,200	916	1.45.2D22100.1201
	Swivel castor with fitting plate, ESD	2D	100	125	1,200	917	1.45.2D22100.1202
	Swivel castor with fitting plate	2D	125	150	1,300	1,141	1.45.2D22125.1301
	Swivel castor with fitting plate, ESD	2D	125	150	1,300	1,148	1.45.2D22125.1302
	Swivel castor with fitting plate	2D	150	176	1,500	1,723	1.45.2D22150.1501
	Swivel castor with fitting plate, ESD	2D	150	176	1,500	1,735	1.45.2D22150.1502
	Swivel castor, lockable with fitting plate	2B	100	128	1,600	990	1.45.2B32100.1601
	Swivel castor, lockable with fitting plate, ESD	2B	100	128	700	1,054	1.45.2B32100.0702
	Swivel castor, lockable with fitting plate	2B	125	155	2,500	1,146	1.45.2B32125.2501
	Swivel castor, lockable with fitting plate, ESD	2B	125	155	1,000	1,311	1.45.2B32125.1002
	Swivel castor, lockable with fitting plate	2B	160	200	3,000	2,548	1.45.2B32160.3001
	Swivel castor, lockable with fitting plate, ESD	2B	160	200	1,350	2,579	1.45.2B32160.1352
	Swivel castor, lockable with fitting plate	2B	200	240	4,000	2,987	1.45.2B32200.4001
	Swivel castor, lockable with fitting plate, ESD	2B	200	240	2,050	3,555	1.45.2B32200.2051
	Swivel castor, lockable with fitting plate	2C	100	137	1,000	516	1.45.2C32100.1001
	Swivel castor, lockable with fitting plate, ESD	2C	100	137	1,000	537	1.45.2C32100.1002
	Swivel castor, lockable with fitting plate	2C	125	161	1,000	617	1.45.2C32125.1001
	Swivel castor, lockable with fitting plate, ESD	2C	125	161	1,000	682	1.45.2C32125.1002
	Swivel castor, lockable with fitting plate	2C	150	190	1,000	713	1.45.2C32150.1001
	Swivel castor, lockable with fitting plate	2D	100	125	1,200	985	1.45.2D32100.1201
	Swivel castor, lockable with fitting plate, ESD	2D	100	125	1,200	986	1.45.2D32100.1202
	Swivel castor, lockable with fitting plate	2D	125	150	1,300	1,209	1.45.2D32125.1301
	Swivel castor, lockable with fitting plate, ESD	2D	125	150	1,300	1,216	1.45.2D32125.1302
	Swivel castor, lockable with fitting plate	2D	150	176	1,500	1,993	1.45.2D32150.1501
	Swivel castor, lockable with fitting plate, ESD	2D	150	176	1,500	2,008	1.45.2D32150.1502

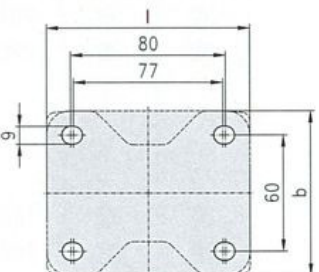
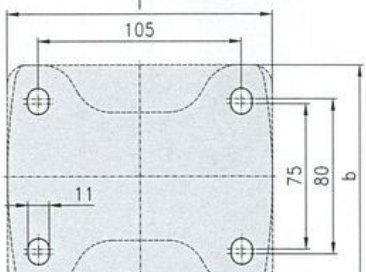
		Castor width B [mm]	Dome- Ø c [mm]	Bolt hole-Ø d [mm]	Wheel width e [mm]	Offset f [mm]	Swivel interfer- ence-Ø [mm]	Size of plate l × b × h [mm]	Plate hole spacing [mm]	Plate hole-Ø [mm]
	75	75		34	40	180	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		30	40	180	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		40	40	205	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		37	40	205	105 × 80 × 2.5	80/77 × 60	9.0	
	96	96		46	55	270	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		40	55	270	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		46	55	310	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		50	55	310	137 × 105 × 3.5	105 × 80/75	11.0	
	59	59		32	36	172	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	36	172	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	38	201	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	38	201	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	38	226	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	82	52		20	32	180	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	32	180	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	40	218	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	40	218	96 × 78 × 2.5	80/77 × 60	9.0	
	89	56		22	52	218	137 × 105 × 3.5	105 × 80/75	11.0	
	89	56		22	52	218	137 × 105 × 3.5	105 × 80/75	11.0	
	75	75		34	41	246	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		30	41	246	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		40	40	246	105 × 80 × 2.5	80/77 × 60	9.0	
	75	75		37	40	246	105 × 80 × 2.5	80/77 × 60	9.0	
	96	96		46	60	334	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		40	60	334	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		46	55	334	137 × 105 × 3.5	105 × 80/75	11.0	
	96	96		50	55	334	137 × 105 × 3.5	105 × 80/75	11.0	
	59	59		32	36	196	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	36	196	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	38	201	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	39	201	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	59	59		32	38	240	77 × 67 × 2.5	61.5/56 × 51.5/46.5	8.5	
	82	52		20	32	216	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	32	216	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	40	258	96 × 78 × 2.5	80/77 × 60	9.0	
	82	52		20	40	258	96 × 78 × 2.5	80/77 × 60	9.0	
	89	56		22	52	312	137 × 105 × 3.5	105 × 80/75	11.0	
	89	56		22	52	312	137 × 105 × 3.5	105 × 80/75	11.0	

Castor fastening

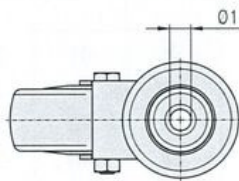
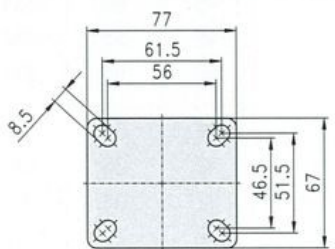
Series 2A

Castor-Ø [mm]	50 / 75 / 100 / 125 / 150
Bolt hole type	

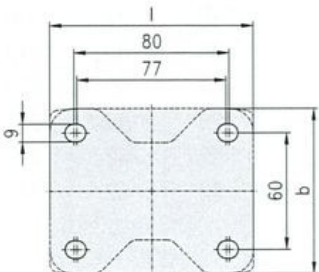
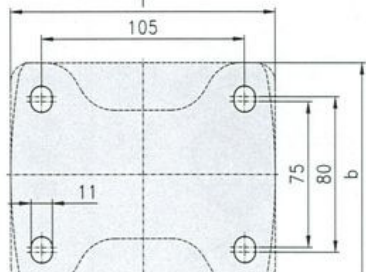
Series 2B

Castor-Ø [mm]	100 / 125	160 / 200
Fitting plate type		

Series 2C

Castor-Ø [mm]	100 / 125 / 150
Bolt hole type	
Fitting plate type	

Series 2D

Castor-Ø [mm]	100 / 125	150
Fitting plate type		

Locking castors



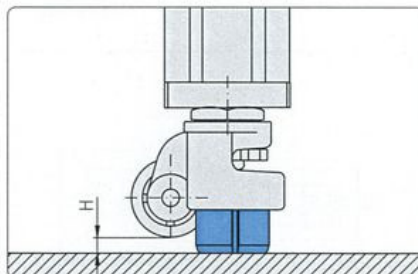
Application

Locking castors for easy movement and positioning of trolleys, benches and assemblies

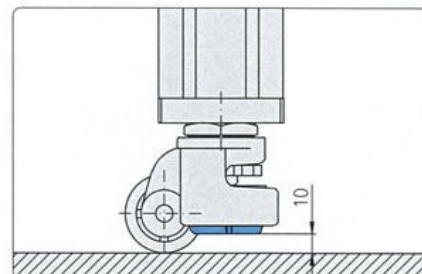
Technical data

material:

- capsule: Al
- fastening elements: C45
- locking foot: GD-Al, rubber
- max. static load: $F_{\max}$



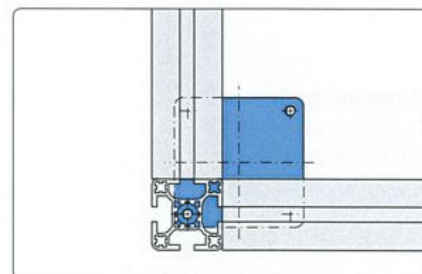
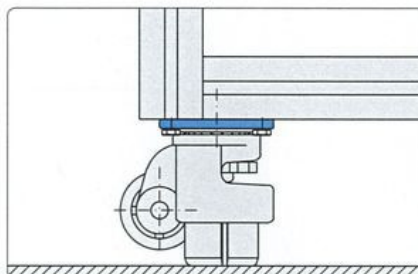
Extended support foot to secure position



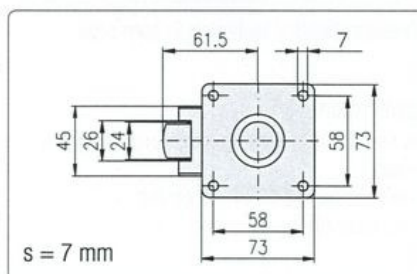
Retracted support foot for easy movement

Design					
D	a	b _{max}	c	H _{max}	F _{max}
Ø50	84	90	98	6	2,500 N
Ø63	104	114	120	10	5,000 N

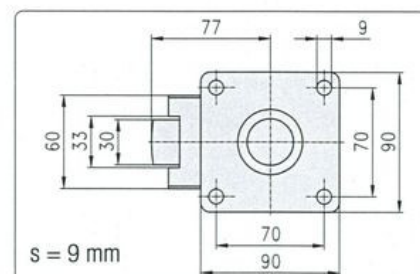
Locking castors with plate



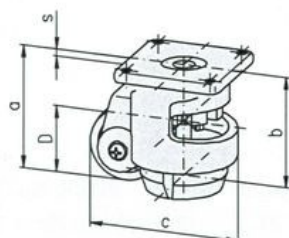
Mounting on profile frame using core hole and slot



Castor-Ø50

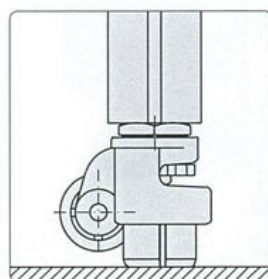


Castor-Ø63

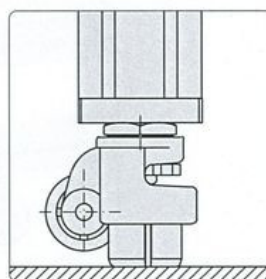
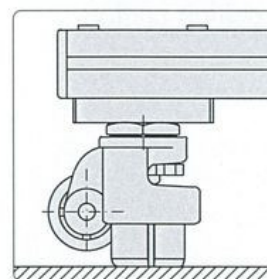
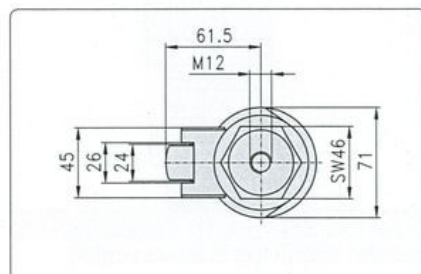


Description	D	Weight	Article-No.
Locking castor 250 kg, with plate	Ø50	700 g	1.45.80200.073
Locking castor 500 kg, with plate	Ø63	1,300 g	1.45.80400.090

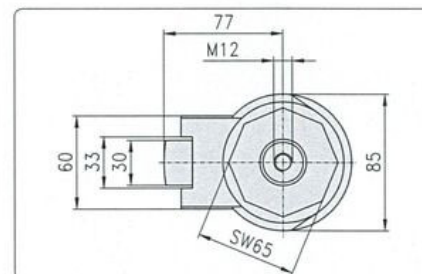
Locking castors with center thread



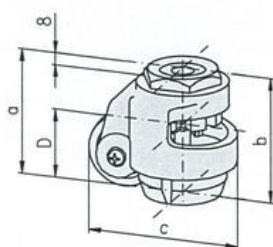
Fastening in core hole


Fastening through base plate
for profiles without central
core hole

Fastening with press-fit
threaded insert and base
plate across the profile


Castor-Ø50

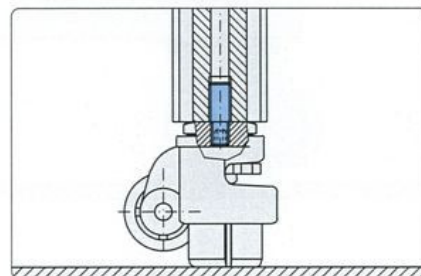


Castor-Ø63

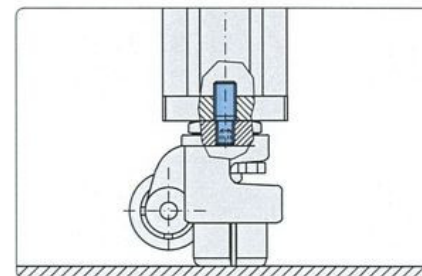


Description	D	Weight	Article-No.
Locking castor 250 kg, with center thread	Ø50	640 g	1.45.81200.046
Locking castor 500 kg, with center thread	Ø63	1,230 g	1.45.81400.065

Threaded bolt for locking castor with center thread



Threaded bolt for fastening in core hole



Threaded bolt for fastening with base plate

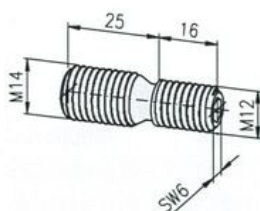
Application

For fastening of locking castors with central thread

- in core hole-Ø12 of the profile
- on base plate

Technical data

material: steel
surface: galvanised

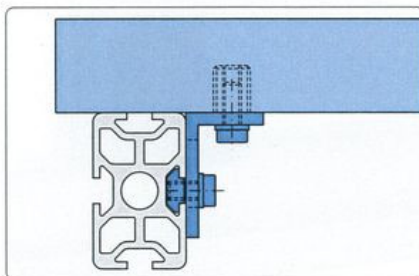


Description	Weight	Article-No.
Threaded bolt M12/M14	21 g	1.45.81000.M12M14

Angles 25×40



Fastening of panels



Fastening of table tops

Application

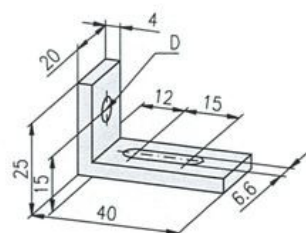
Angle bracket for the mounting of panels, table tops, switches and accessories

Technical data

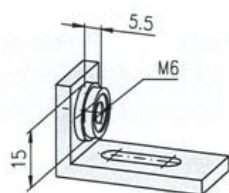
material: aluminium
strength: F22
surface: natural anodised

Comments

Design with clearance hole drilling



Description	D	Weight	Article-No.
Angle 25×40	Ø6.6	11 g	1.46.110
Angle 25×40	Ø8.7	10 g	1.46.115



Comments

Design with nut M6 ± 0.5 mm floating in cage

Description	Weight	Article-No.
Angle 25×40, M6	15 g	1.46.120

Angles PA



Support of free-standing profiles

Application

For supporting of profiles and mounting of cover panels



Support across the profile
In this application the rotary lock must be removed from one side

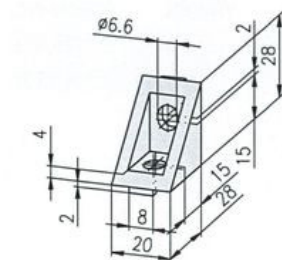


Mounting of cover panels
In this application the rotary lock must be removed from both sides

Technical data

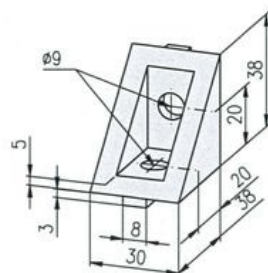
material: PA-GF

20×28



Description	Colour	Weight	Article-No.
Angle PA, 20×28	grey	6.4 g	1.46.203.2028.1
Angle PA, 20×28	black	6.4 g	1.46.203.2028.2

30×38



Description	Colour	Weight	Article-No.
Angle PA, 30×38	grey	18.9 g	1.46.203.3038.1
Angle PA, 30×38	black	18.9 g	1.46.203.3038.2

Angles GD-Zn



Application

For supporting profiles and mounting various machine components



Technical data

material:

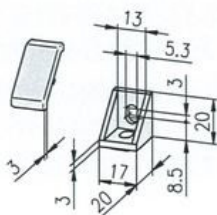
- angle: GD-Zn
- cover cap: PA-GK 30
- T-slot nut: steel, galvanised
- screw: steel, galvanised
- surface: natural or aluminium coloured powder-coated

□

- 1 angle natural
- 2 angle powder-coated

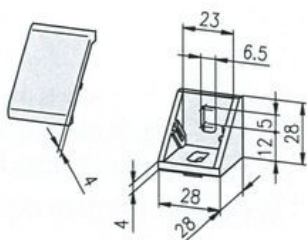
For mounting cross to the slot the noses can be broken off

17×20



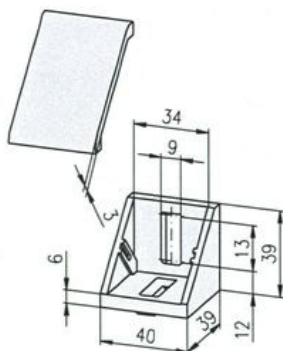
Description	Surface	Weight	Article-No.
Angle GD-Zn, 17×20	natural	13.7 g	1.46.204.1720.1
Angle GD-Zn, 17×20	powder-coated	13.7 g	1.46.204.1720.2
Cover cap for angle GD-Zn, 17×20		1.7 g	1.46.204.1720A
Angle connection set	1720 H/H	20.9 g	1.46.204.1720.□HH
Angle connection set	1720 H/F	23.6 g	1.46.204.1720.□HF
Angle connection set	1720 F/F	26.3 g	1.46.204.1720.□FF
Angle connection set	1720 T H/F	25.0 g	1.46.204.1720T□HF
Angle connection set	1720 T F/F	29.1 g	1.46.204.1720T□FF

28×28



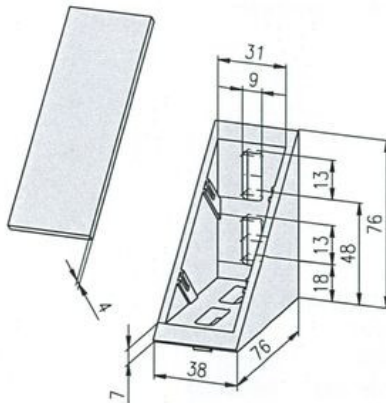
Description	Surface	Weight	Article-No.
Angle GD-Zn, 28×28	natural	39.6 g	1.46.204.2828.1
Angle GD-Zn, 28×28	powder-coated	39.6 g	1.46.204.2828.2
Cover cap for angle GD-Zn, 28×28		5.6 g	1.46.204.2828A
Angle connection set	2828 F/F	56.4 g	1.46.204.2828.□FF
Angle connection set	2828 F/E	56.8 g	1.46.204.2828.□FE
Angle connection set	2828 E/E	57.2 g	1.46.204.2828.□EE
Angle connection set	2828 T F/F	59.8 g	1.46.204.2828T□FF
Angle connection set	2828 T F/E	66.3 g	1.46.204.2828T□FE
Angle connection set	2828 T E/E	72.8 g	1.46.204.2828T□EE

40×39



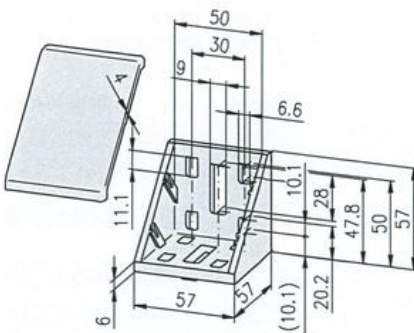
Description	Surface	Weight	Article-No.
Angle GD-Zn, 40×39	natural	85.5 g	1.46.204.4039.1
Angle GD-Zn, 40×39	powder-coated	85.5 g	1.46.204.4039.2
Cover cap for angle GD-Zn, 40×39		8.0 g	1.46.204.4039A
Angle connection set	4039 F/F	105.9 g	1.46.204.4039.□FF
Angle connection set	4039 F/E	111.9 g	1.46.204.4039.□FE
Angle connection set	4039 E/E	117.9 g	1.46.204.4039.□EE
Angle connection set	4039 T F/F	105.9 g	1.46.204.4039T□FF
Angle connection set	4039 T F/E	111.9 g	1.46.204.4039T□FE
Angle connection set	4039 T E/E	117.9 g	1.46.204.4039T□EE

38×76



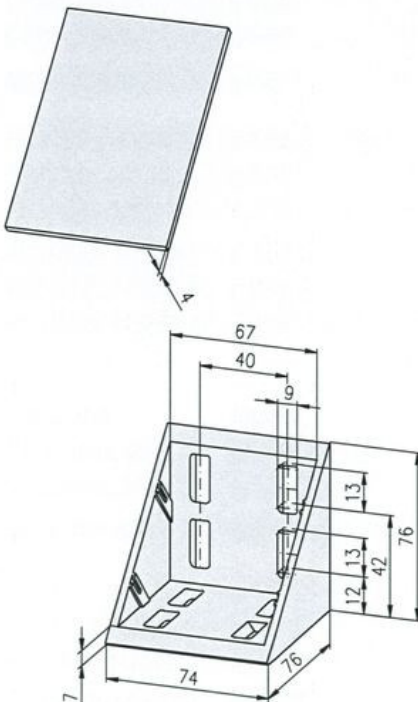
Description	Surface	Weight	Article-No.
Angle GD-Zn, 38×76	natural	273.0 g	1.46.204.3876.1
Angle GD-Zn, 38×76	powder-coated	273.0 g	1.46.204.3876.2
Cover cap for angle GD-Zn, 38×76		16.8 g	1.46.204.3876A
Angle connection set	3876 F/F	334.2 g	1.46.204.3876.□FF
Angle connection set	3876 F/E	342.2 g	1.46.204.3876.□FE
Angle connection set	3876 E/E	350.2 g	1.46.204.3876.□EE
Angle connection set	3876 T F/F	313.8 g	1.46.204.3876T□FF
Angle connection set	3876 T F/E	325.8 g	1.46.204.3876T□FE
Angle connection set	3876 T E/E	337.8 g	1.46.204.3876T□EE

57×57



Description	Surface	Weight	Article-No.
Angle GD-Zn, 57×57	natural	226.3 g	1.46.204.5757.1
Angle GD-Zn, 57×57	powder-coated	226.3 g	1.46.204.5757.2
Cover cap for angle GD-Zn, 57×57		22.8 g	1.46.204.5757A
Angle connection set	5757 F/F	296.7 g	1.46.204.5757.□FF
Angle connection set	5757 F/E	280.8 g	1.46.204.5757.□FE
Angle connection set	5757 E/E	261.9 g	1.46.204.5757.□EE
Angle connection set	5757 T F/F	246.7 g	1.46.204.5757T□FF
Angle connection set	5757 T F/E	252.7 g	1.46.204.5757T□FE
Angle connection set	5757 T E/E	258.7 g	1.46.204.5757T□EE

74×76



Description	Surface	Weight	Article-No.
Angle GD-Zn, 74×76	natural	434.5 g	1.46.204.7476.1
Angle GD-Zn, 74×76	powder-coated	434.5 g	1.46.204.7476.2
Cover cap for angle GD-Zn, 74×76		32.7 g	1.46.204.7476A
Angle connection set	7476 E/E	588.9 g	1.46.204.7476.□EE

Single Parts: Angle connection sets									
Angle	Set	Slot	Threaded plate	T-slot nut	T-nut for subsequent insertion	Lens head screw	T-screw	Hexagon flange nut	Pcs.
									
1.46.204.1720.□ 	1720	H H	1.31.4HM5			0.63.WN7381.05006			2
		H F	1.31.4HM5			0.63.WN7381.05006			1
		F F		1.34.10FM5		0.63.WN7381.05008			1
		F F		1.34.10FM5		0.63.WN7381.05008			2
	1720 T	H F	1.31.4HM5			0.63.WN7381.05006			1
		F F		1.32.4FM5		0.63.WN7381.05008			1
1.46.204.2828.□ 	2828	F F		1.34.10FM6		0.63.WN7381.06010			2
		F E		1.34.10FM6		0.63.WN7381.06010			1
		E E		1.34.10EM6		0.63.WN7381.06012			1
		E E		1.34.10EM6		0.63.WN7381.06012			2
	2828 T	F F			1.32.4FM6	0.63.WN7381.06010			2
		F E			1.32.4FM6	0.63.WN7381.06010			1
		E E			1.32.4EM6	0.63.WN7381.06012			1
		E E			1.32.4EM6	0.63.WN7381.06012			2
1.46.204.4039.□ 	4039	F F				 1.34.FM82	0.61.D06923.08		2
		F E				1.34.FM82	0.61.D06923.08		1
		E E				1.34.EM82	0.61.D06923.08		1
		E E				1.34.EM82	0.61.D06923.08		2
	4039 T	F F			1.32.4FM8	0.63.WN7381.08012			2
		F E			1.32.4FM8	0.63.WN7381.08012			1
		E E			1.32.4EM8	0.63.WN7381.08016			1
		E E			1.32.4EM8	0.63.WN7381.08016			2
1.46.204.3876.□ 	3876	F F					1.34.FM82	0.61.D06923.08	4
		F E					1.34.FM82	0.61.D06923.08	2
		E E					1.34.EM82	0.61.D06923.08	2
		E E					1.34.EM82	0.61.D06923.08	4
	3876 T	F F			1.32.4FM8	0.63.WN7381.08012			4
		F E			1.32.4FM8	0.63.WN7381.08012			2
		E E			1.32.4EM8	0.63.WN7381.08016			2
		E E			1.32.4EM8	0.63.WN7381.08016			4
1.46.204.5757.□ 	5757	F F		1.34.10FM6		0.63.WN7381.06012			8
		F E		1.34.10FM6		0.63.WN7381.06012			4
		E E					1.34.EM82	0.61.D06923.08	1
		E E					1.34.EM82	0.61.D06923.08	2
	5757 T	F F			1.32.4FM6	0.63.WN7381.06012			8
		F E			1.32.4FM6	0.63.WN7381.06012			4
		E E			1.32.4EM8	0.63.WN7381.08016			1
		E E			1.32.4EM8	0.63.WN7381.08016			2
1.46.204.7476.□ 	7476	E E					1.34.EM82	0.61.D06923.08	8



- 1 angle natural
2 angle powder-coated



Connection with T-screw only without cover cap

Angles GD-AI



Application

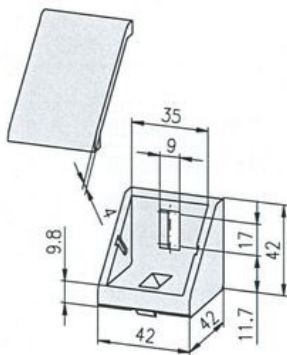
For supporting profiles and mounting various machine components

Technical data

material:

- angle: GD-AI
- cover cap: PA GK 30
 - nut: steel, galvanised
 - screw: steel, galvanised
- surface: natural

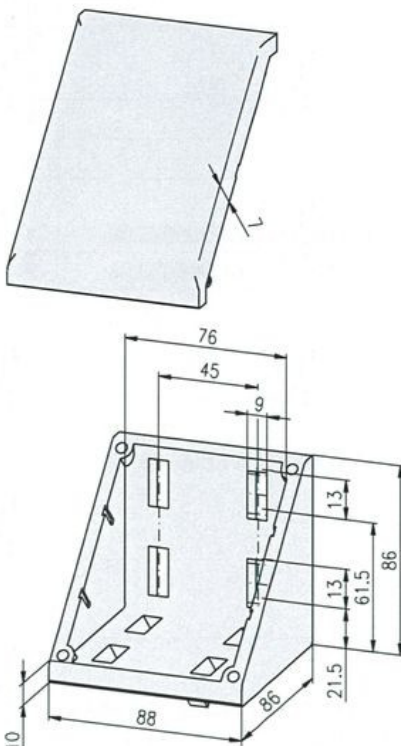
42×42



Description	Surface	Weight	Article-No.
Angle GD-AI, 42×42	natural	56.0 g	1.46.204.4242.1AL
Cover cap for angle GD-AI, 42×42		14.0 g	1.46.204.4242.AAL
Angle connection set	4242 E/E	100.0 g	1.46.204.4242.SAL

Single parts: Angle connection set 4242					
Angle	Slot	Fastening elements			
		T-screw		hexagon flange nut	Pcs.
					
1.46.204.4242.1AL	E E	1.34.EM825		0.61.D06923.08	2

88×86



Description	Surface	Weight	Article-No.
Angle GD-AI, 88×86	natural	333.8 g	1.46.204.8886.1AL
Cover cap for angle GD-AI, 88×86		30.0 g	1.46.204.8886.AAL
Angle connection set	8886 E/E	485.5 g	1.46.204.8886.SAL

Single parts: Angle connection set 8886					
Angle	Slot	Fastening elements			
		T-screw		hexagon flange nut	Pcs.
					
1.46.204.8886.1AL	E E	1.34.EM825		0.61.D06923.08	8

Angles Alu



Mounting of cover panels

Application

For supporting of profiles and mounting of cover panels



Support across the profile



Support of free-standing profiles

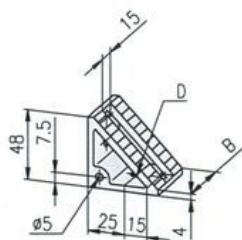
Technical data

material: aluminium
strength: F25
surface: natural anodised

Comments

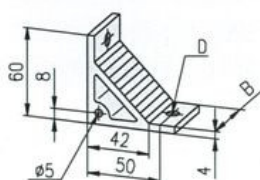
raw finish on request

48×48



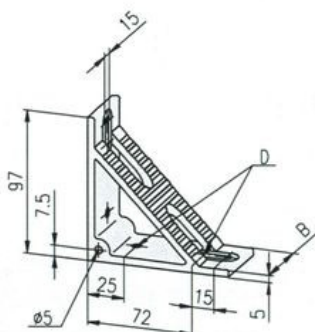
Description	D	B	Weight	Article-No.
Angle 48×48	Ø6.6	30	40 g	1.46.20536
Angle 48×48	Ø9.0	30	38 g	1.46.20539
Angle 48×48	Ø6.6	45	66 g	1.46.20546
Angle 48×48	Ø9.0	45	64 g	1.46.20549

60×60



Description	D	B	Weight	Article-No.
Angle 60×60	Ø9.0	30	49 g	1.46.20639
Angle 60×60	Ø9.0	45	74 g	1.46.20649

97×97



Description	D	B	Weight	Article-No.
Angle 97×97	Ø6.6	30	95 g	1.46.21036
Angle 97×97	Ø9.0	30	93 g	1.46.21039
Angle 97×97	Ø6.6	45	155 g	1.46.21046
Angle 97×97	Ø9.0	45	153 g	1.46.21049

Swivel angles



Fastening from below



Fastening from the side

Application

Infinitely variable adjusting of inclination with swivel angle

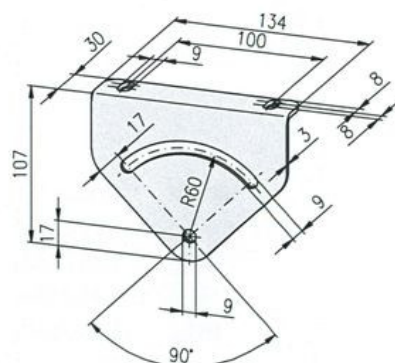
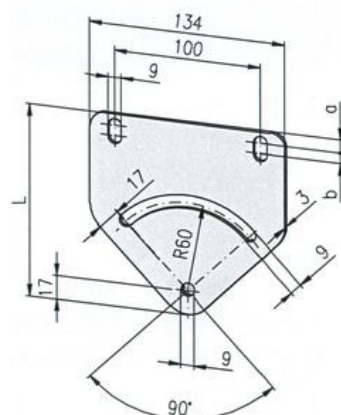
Technical data

Design alu:

- material: aluminium
- strength: F22
- surface: natural anodised

Design steel:

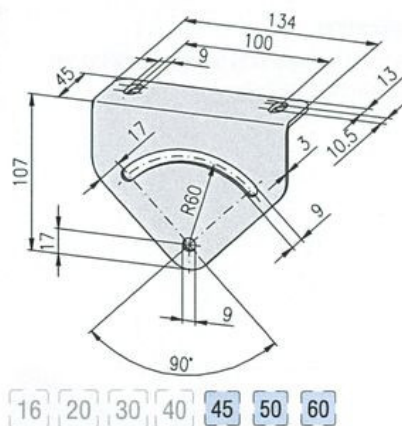
- material: steel
- surface: galvanised



16 20 30 40 45 50 60

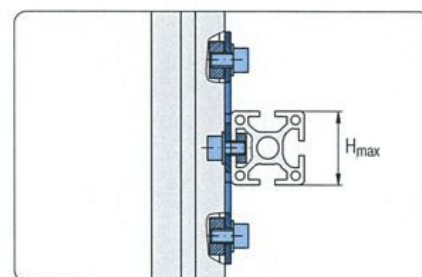
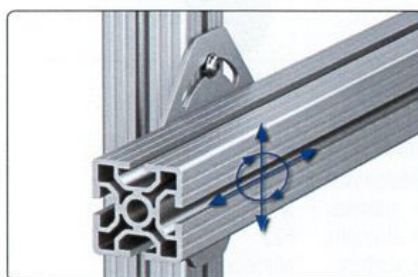
Description	L	Design	a	b	Weight	Article-No.
Swivel angle	131	alu	8	8.0	105 g	1.46.3013100.AL
Swivel angle	146	alu	13	10.5	116 g	1.46.3014600.AL
Swivel angle	131	steel	8	8.0	320 g	1.46.3013100.ST
Swivel angle	146	steel	13	10.5	360 g	1.46.3014600.ST

Description	Design	Weight	Article-No.
Swivel angle 30	alu	105 g	1.46.3110530.AL
Swivel angle 30	steel	320 g	1.46.3110530.ST



Description	Design	Weight	Article-No.
Swivel angle 45	alu	116 g	1.46.3110545.AL
Swivel angle 45	steel	360 g	1.46.3110545.ST

Cross connection plates

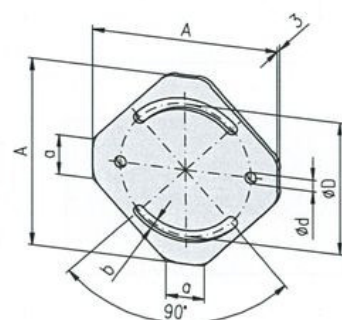


Application

The cross connection plate allows profile adjustment in 2 directions and at an angle of $\pm 45^\circ$

Technical data

material: aluminium
strength: F22
surface: natural anodised



Description	H _{max}	Weight	Article-No.
Cross connection plate 65×65	20	20 g	1.47.1065
Cross connection plate 85×85	30	35 g	1.47.1085
Cross connection plate 95×95	30	45 g	1.47.1095
Cross connection plate 125×125	50	80 g	1.47.1125

Type	A	a	b	ØD	Ød
65×65	65	18	5.1	45	5.1
85×85	85	18	5.1	60	5.1
95×95	95	18	6.1	65	6.1
125×125	125	37	8.1	95	8.1

Base plates



Fastening of levelling feet



Fastening of castors

Application

Base and transporting plate for profiles without centric core hole



Fastening of eye-bolts

Technical data

Design Alu:

- material: aluminium
- strength: F22
- surface: black powder-coated

Design GD-Zn:

- material: GD-Zn
- surface: black powder-coated

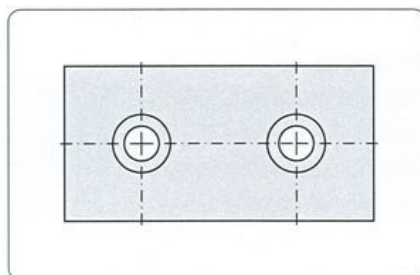
Accessories

- threaded insert
- cap-screw DIN 912

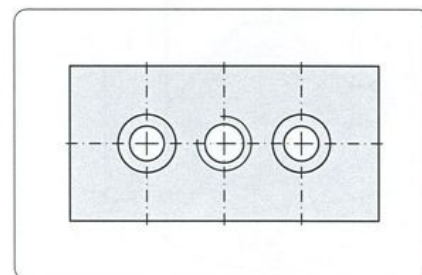
Comments

Counterbore DIN 74 for cap-screw DIN 912

Variants



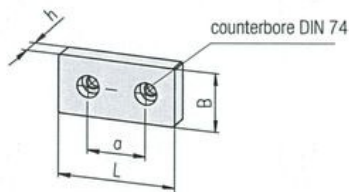
without thread



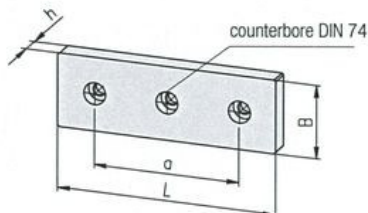
with thread

Dimensions	without thread			with thread M14		
	B×L	Design	h Article-No.	Design	h Article-No.	
30×60	Alu	15	1.47.2030060.0600.1	GD-Zn	12	1.47.20306
40×80	Alu	15	1.47.2040080.0800.1	GD-Zn	16	1.47.20408
45×90	Alu	15	1.47.2045090.0800.1	GD-Zn	16	1.47.2045090
50×100	Alu	15	1.47.2050100.0800.1	GD-Zn	16	1.47.20510
50×150	Alu	15	1.47.2050150.0800.1			
60×60	Alu	15	1.47.2060060.0800.1	GD-Zn	12	1.47.2060060
80×80	Alu	15	1.47.2080080.0800.1	GD-Zn	16	1.47.20808
90×90	Alu	15	1.47.2090090.0800.1	GD-Zn	16	1.47.2090090
100×100	Alu	15	1.47.2100100.0800.1	GD-Zn	16	1.47.21010

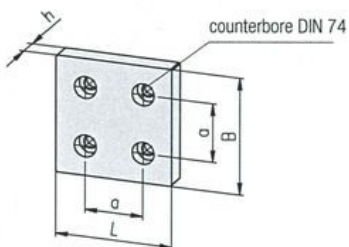
Base plates without thread



16 20 30 40 45 50 60



16 20 30 40 45 50 60



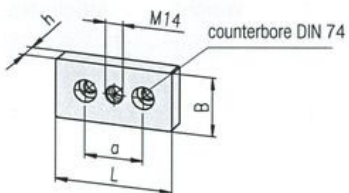
16 20 30 40 45 50 60

Description	B×L	Design	DIN 74	h	a	Weight	Article-No.
Base plate w/o thread	30×60	Alu	- Km6	15	30	64 g	1.47.2030060.0600.1
Base plate w/o thread	40×80	Alu	- Km8	15	40	114 g	1.47.2040080.0800.1
Base plate w/o thread	45×90	Alu	- Km8	15	45	148 g	1.47.2045090.0800.1
Base plate w/o thread	50×100	Alu	- Km8	15	50	186 g	1.47.2050100.0800.1

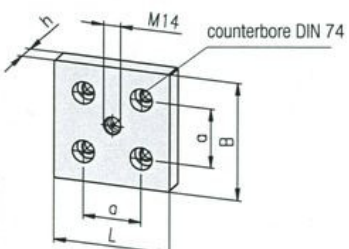
Description	B×L	Design	DIN 74	h	a	Weight	Article-No.
Base plate w/o thread	50×150	Alu	- Km8	15	100	280 g	1.47.2050150.0800.1

Description	B×L	Design	DIN 74	h	a	Weight	Article-No.
Base plate w/o thread	60×60	Alu	- Km8	15	30	115 g	1.47.2060060.0800.1
Base plate w/o thread	80×80	Alu	- Km8	15	40	228 g	1.47.2080080.0800.1
Base plate w/o thread	90×90	Alu	- Km8	15	45	297 g	1.47.2090090.0800.1
Base plate w/o thread	100×100	Alu	- Km8	15	50	374 g	1.47.2100100.0800.1

Base plates with thread



16 20 30 40 45 50 60



16 20 30 40 45 50 60

Description	B×L	Design	h	a	Weight	Article-No.
Base plate	30×60	GD-Zn M14 M6	12	30	104.2 g	1.47.20306
Base plate	40×80	GD-Zn M14 M8	16	40	205.2 g	1.47.20408
Base plate	45×90	GD-Zn M14 M8	16	45	256.5 g	1.47.2045090
Base plate	50×100	GD-Zn M14 M8	16	50	316.8 g	1.47.20510

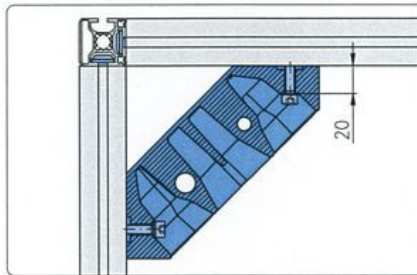
Description	B×L	Design	h	a	Weight	Article-No.
Base plate	60×60	GD-Zn M14 M8	12	30	158.4 g	1.47.2060060
Base plate	80×80	GD-Zn M14 M8	16	40	434.3 g	1.47.20808
Base plate	90×90	GD-Zn M14 M8	16	45	520.7 g	1.47.2090090
Base plate	100×100	GD-Zn M14 M8	16	50	601.0 g	1.47.21010

Floor mounting plate



Application

For fastening and manual levelling of profile racks and frames

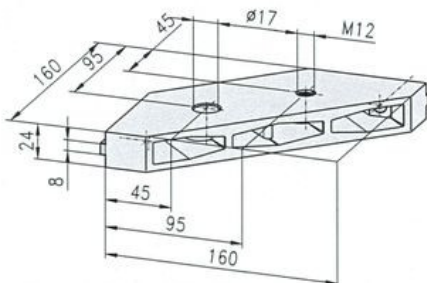


Technical data

material: aluminium
surface: black powder-coated

Fastening elements

F-slot: 2× T-nut with leaf spring FM8 1.32.FM8
2× cap screw M8×25
E-slot: 2× threaded plate, heavy EM8 1.31.6EM8
2× cap screw M8×30



Description

Floor mounting plate, black powder-coated

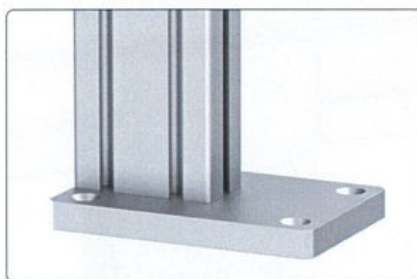
Weight

622 g

Article-No.

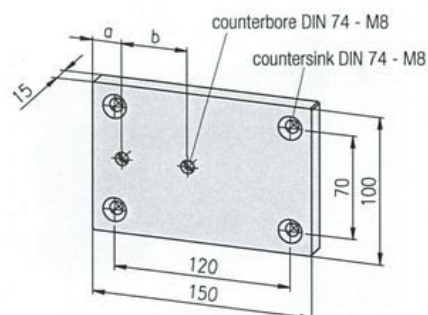
1.47.225160.2

Mounting plates



Application

Mounting plate for fixing on walls, table tops and machine frames



Technical data

material: aluminium
strength: F22
surface: natural anodised

Comments

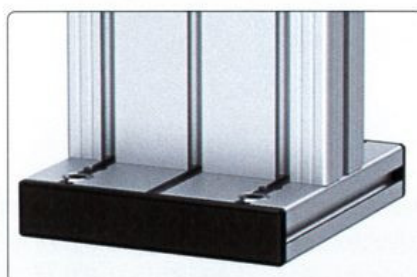
Counterbore DIN 74 - M8 for cap-screw DIN 912 - M8
Countersink DIN 74 - M8 for countersunk screw DIN 7991 - M8

Description

	a	b	Weight	Article-No.
Mounting plate for profile 30×60	15	30	450 g	1.47.30306
Mounting plate for profile 40×80	20	40	450 g	1.47.30408
Mounting plate for profile 50×100	25	50	450 g	1.47.30510

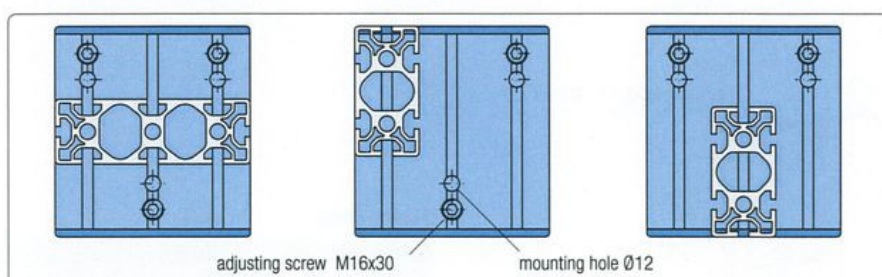
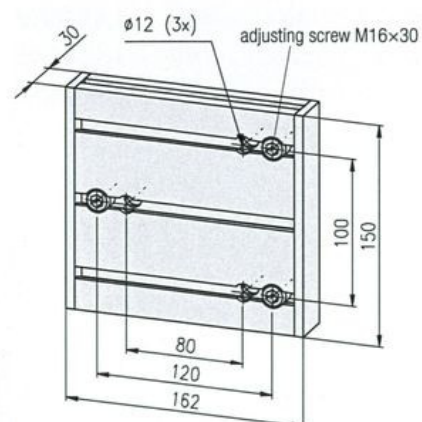
16 20 30 40 45 50 60

Floor plate



Application

For fastening and adjusting of vertical profiles to floor and wall



Fastening variants

Technical data

aluminium profile: anodised
cover caps: PA-GF black

Delivery unit:

- 1 profile 30×150×150
- 2 cover caps
- 3 set screws M16×30

Description

	Weight	Article-No.
Floor plate 30×150×150	1,100 g	1.47.40315

16 20 30 40 45 50 60

Connection plates



Flush connection of 2 profiles without gap



Connection of 2 profiles with gap



Fastening of the electrical trunking



Connection of the pneumatic air manifold

Application

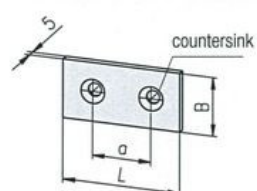
- for subsequent or additional connection of profiles
- for fastening of accessories

Technical data

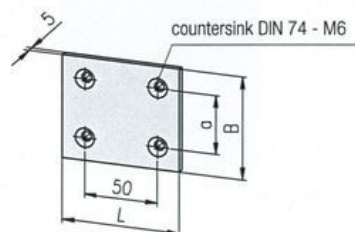
material: aluminium
strength: F22
surface: natural anodised

Comments

Countersink DIN 74 - M6 / M8 for
countersunk screw DIN 7991 - M6 / M8



16 20 30 40 45 50 60



16 20 30 40 45 50 60

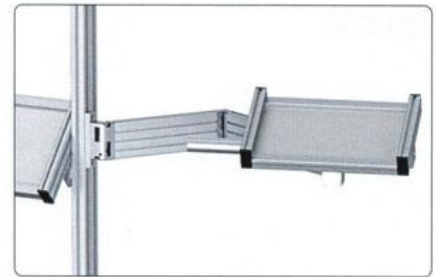
Description	B×L	Countersink	a	Weight	Article-No.
Connection plate	30×60	DIN 74 - M6	30	28 g	1.47.50306
Connection plate	40×80	DIN 74 - M8	40	38 g	1.47.50408
Connection plate	45×90	DIN 74 - M8	45	45 g	1.47.50459

Comments

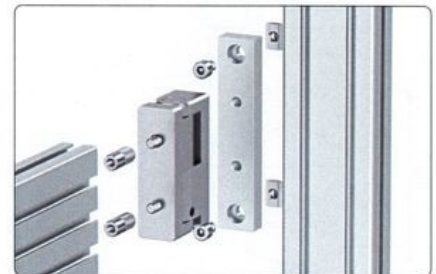
Countersink DIN 74 - M6 for
countersunk screw DIN 7991 - M6

Description	B×L	a	Weight	Article-No.
Connection plate	50×80	30	50 g	1.47.50508
Connection plate	70×80	40	69 g	1.47.50708
Connection plate	75×80	45	76 g	1.47.50758
Connection plate	80×80	50	81 g	1.47.50808

Fastening plate 30×150



Fastening of profile 30×100


Fastening of profile 30×100 with joint
30×100


Application

Fastening plate to increase the carrying capacity of detached bracket or swivel arm

- for profile 30×100
- for joint 30×100

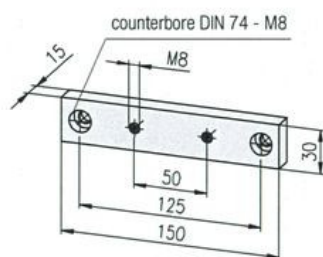
Technical data

material: aluminium
strength: F22
surface: natural anodised

max. bend-load: $M_b = F \times L$	
vertical profiles	M_b
30×30	750 Nm
40×40	1,000 Nm
50×50	1,500 Nm

Comments

Counterbore DIN 74 - M8
cap-screw DIN 6912 - M8



16 20 30 40 45 50 60

Description

Fastening plate 30×150

Weight

228 g

Article-No.

1.47.60315

Eye-bolt



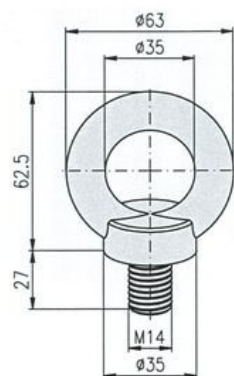
Mounting directly in the profile (core hole)



Mounting with base plates

Application

Eye-bolts for the transfer of frames and complete equipment



Technical data

material: C 15

max. load 1):

- for one eye-bolt 5,000 N
- for two eye-bolts total 7,000 N

1) The max. load given is valid only if the eye-bolt face is tightened firmly

Description

Eye-bolt M14

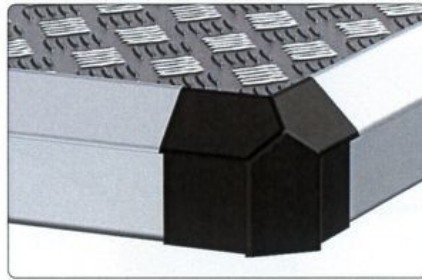
Weight

193 g

Article-No.

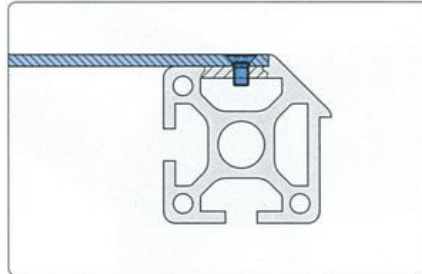
1.47.96314

Corner pieces

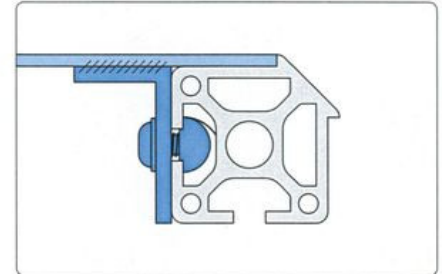


Application

Corner piece set angle PA for the connection of panel base profiles 40×40, 2E, 45°, SP

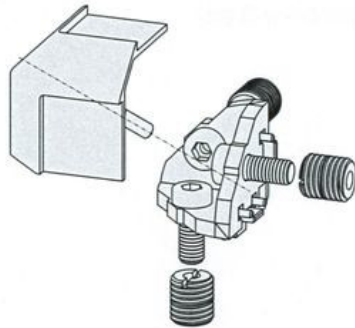


Assembly possibility

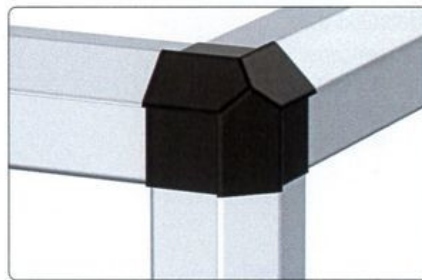
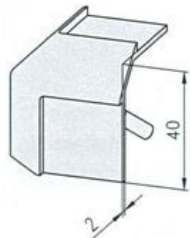


Assembly possibility

Corner angle



16 20 30 **40** 45 50 60



Technical data

- Cover cap:
material: PA, black
- Angle:
material: GD-Zn

Delivery unit (set)

- Corner piece angle
- Corner piece cover cap
- Threaded insert M14/M8 (3 pcs)
- Cap head screw (3 pcs)

Description

Corner piece set angle PA

Weight

133.0 g

Article-No.

1.48.14340

4

Description

Corner piece cover cap, angle PA

Weight

12.5 g

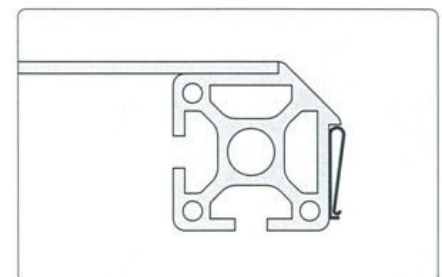
Article-No.

1.48.14342

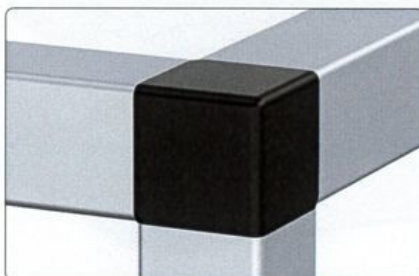
Label bar



Recess can also be used for label bars / label strips



Corner pieces



Corner piece set cubic PA: For the connection of three profiles 40×40



Corner piece set 45° PA: For the connection of three profiles 40×40, 2E, 45°, LP



Corner piece set spherical PA: For the connection of three profiles 40×40, soft

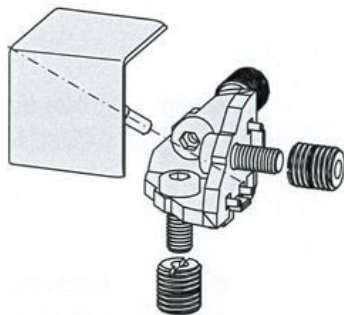
Technical data

- Cover cap:
material: PA, black
- Angle:
material: GD-Zn

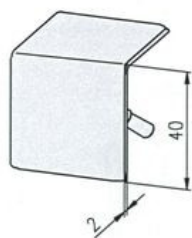
Delivery unit (set)

- Corner piece angle
- Corner piece cover cap
- Threaded insert M14/M8 (3 pcs)
- Cap head screw (3 pcs)

Cubic



16 20 30 40 45 50 60



Description

Corner piece set cubic PA

Weight

136.0 g

Article-No.

1.48.14410

Description

Corner piece cover cap, cubic PA

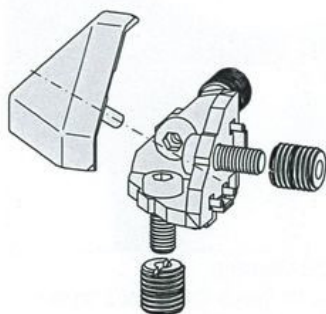
Weight

15.5 g

Article-No.

1.48.14412

45°



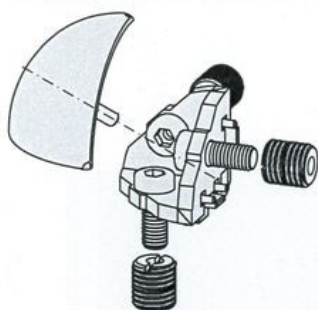
16 20 30 40 45 50 60

Description	Weight	Article-No.
Corner piece set 45° PA	128.0 g	1.48.14440



Description	Weight	Article-No.
Corner piece cover cap, 45° PA	7.5 g	1.48.14442

Spherical



16 20 30 40 45 50 60

Description	Weight	Article-No.
Corner piece set spherical PA	129.0 g	1.48.14480



Description	Weight	Article-No.
Corner piece cover cap, spherical PA	8.5 g	1.48.14482

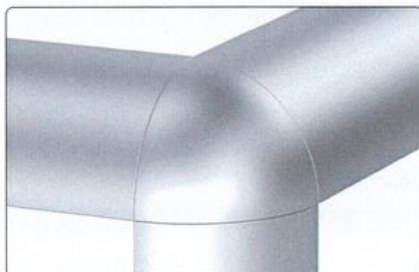
Corner pieces



Corner pieces cubic:
Corner piece for the connection of 3 square profiles



Corner pieces segment:
Corner piece for the connection of 2 square profiles and 1 soft profile



Corner pieces sphere:
Corner piece for the connection of 3 soft profiles

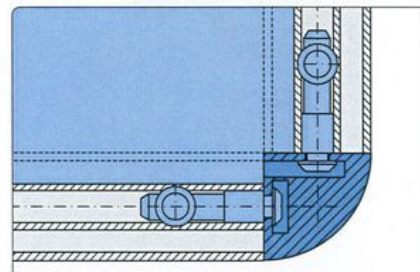
Technical data

material: aluminium
strength: F22
surface: natural anodised

General

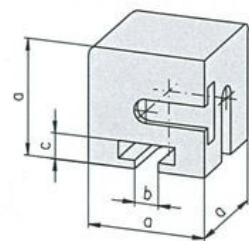
The attractive corner pieces are made of solid aluminium and guarantee the entire connection stability

Connection with corner pieces



Connection of profiles with one corner piece using the standard connector

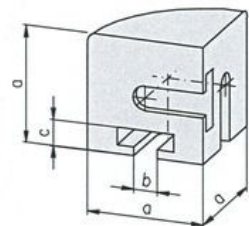
Corner pieces cubic



16 20 30 40 45 50 60

Description	a	Slot	b	c	Weight	Article-No.
Corner piece cubic	20	H	6.2	4.6	17 g	1.48.221
Corner piece cubic	30	F	8.2	6.2	59 g	1.48.331
Corner piece cubic	40	E3	8.2	9.0	135 g	1.48.441

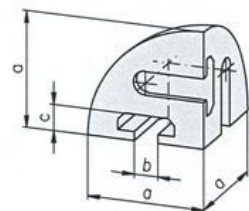
Corner pieces segment



16 20 30 40 45 50 60

Description	a	Slot	b	c	Weight	Article-No.
Corner piece segment	20	H	6.2	4.6	12 g	1.48.222
Corner piece segment	30	F	8.2	6.2	43 g	1.48.332
Corner piece segment	40	E3	8.2	9.0	100 g	1.48.442

Corner pieces sphere



16 20 30 40 45 50 60

Description	a	Slot	b	c	Weight	Article-No.
Corner piece sphere	20	H	6.2	4.6	7 g	1.48.228
Corner piece sphere	30	F	8.2	6.2	24 g	1.48.338
Corner piece sphere	40	E3	8.2	9.0	57 g	1.48.448

1.5 Pneumatic accessories



Pneumatic
end plates
➡ 5.04 - 5.08



Pneumatic
connection plates
➡ 5.09



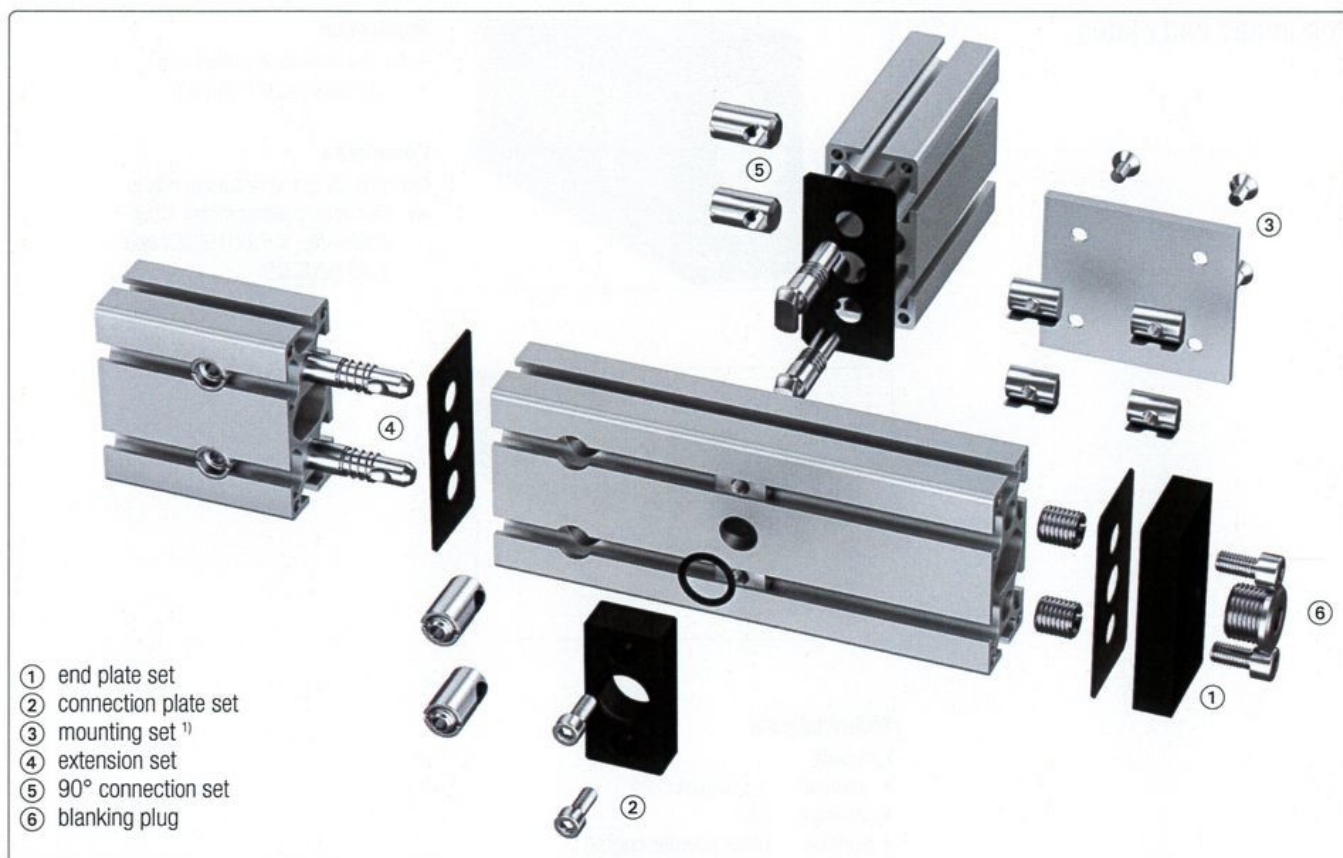
Pneumatic
extension sets
➡ 5.10



Pneumatic-90°
connection sets
➡ 5.11 - 5.12

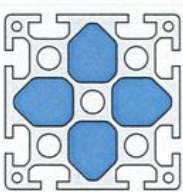


Pneumatic
accessories
➡ 5.12



¹⁾ for mounting set ➔ connection plate 1.47.50...

Profiles for pneumatic applications

PG 30	PG 40	PG 45	PG 50	PG 60
 Profile 30×60, 6F ²⁾ 299.8 mm ²	 Profile 40×80, 6E ²⁾ 521.8 mm ²	 Profile 45×90, 6E ²⁾ 816.2 mm ²	 Profile 50×100, 6E ²⁾ 1,043.3 mm ²	 Profile 60×90, 6E ²⁾ 1,203.0 mm ²
	 Profile 80×80, 8E ²⁾ 2,454.1 mm ²	 Profile 90×90, 8E ²⁾ 635.2 mm ² (4×)	 Profile 100×100, 8E ²⁾ 4,080.4 mm ²	Comments profiles with closed interior chambers and closed core holes can also be used as pressure line max. pressure: 10 bar
	 Profile 80×80, 8E, angle ²⁾ 505.7 mm ² (2×)		 Profile 50×150, 8E ²⁾ 1,115.8 mm ² (2×)	

²⁾ (pneumatic) cross-sectional area

Pneumatic end plates



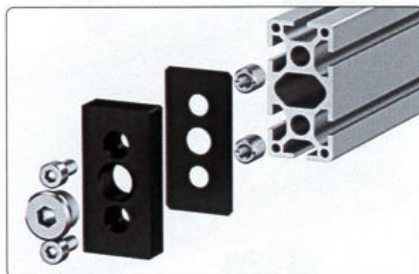
Application

- for the closing of profile ends
- vent disconnection thread

Comments

Blanking plug and reducing nipple

➔ *Pneumatic accessories 1.59*
Article-No. 1.59.010□□ and
1.59.020□□



Technical data

End plate

- material: aluminium
- strength: F22
- surface: black powder-coated

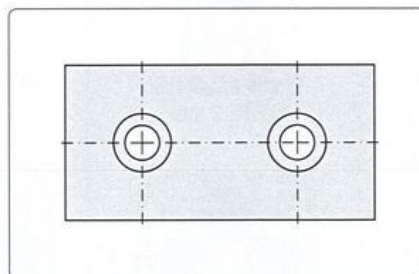
Seal

- material: NBR

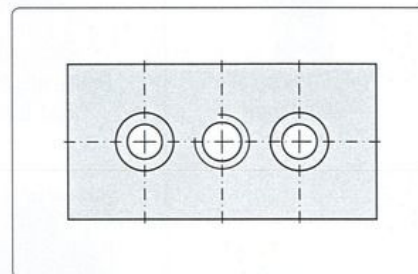
Comments

Counterbore DIN 74 - M6 / M8 for
cap-screw DIN 912 - M6 / M8

Variants



without thread

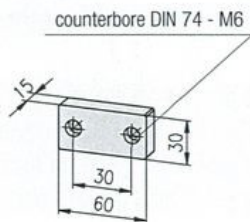


with thread

Dimensions B×L	without thread Article-No.	with thread G1/4" Article-No.	with thread G1/2" Article-No.
30×60	1.47.2030060.0600.1	1.51.13061	
40×80	1.47.2040080.0800.1		1.51.14081
45×90	1.47.2045090.0800.1		1.51.14591
50×100	1.47.2050100.0800.1		1.51.15101
50×150	1.47.2050150.0800.1		1.51.15151
80×80	1.47.2080080.0800.1		1.51.18081
100×100	1.47.2100100.0800.1		1.51.20101

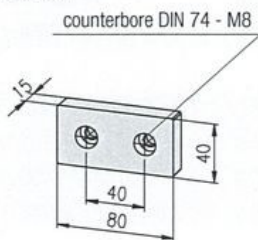
Pneumatic end plate sets without thread

30×60



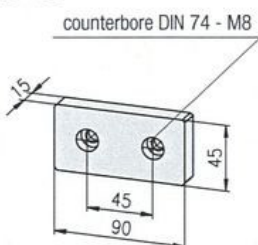
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 30×60	121 g	1.50.2030060.0600.0
Single parts		Pcs.
Base plate w/o thread 30×60	1	64 g 1.47.2030060.0600.1
Pneumatic seal 30×60	1	3 g 1.51.13062
Threaded insert M14/M6	2	22 g 1.35.1140615
Cap-screw DIN 912 - M6×16	2	5 g 0.63.D00912.06016

40×80



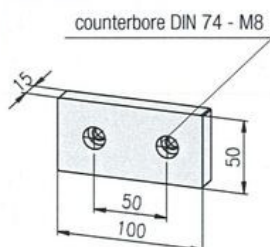
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 40×80	173 g	1.50.2040080.0800.0
Single parts		Pcs.
Base plate w/o thread 40×80	1	114 g 1.47.2040080.0800.1
Pneumatic seal 40×80	1	5 g 1.51.14082
Threaded insert M14/M8	2	18 g 1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g 0.63.D00912.08016

45×90



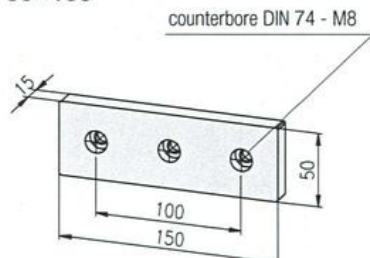
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 45×90	208 g	1.50.2045090.0800.0
Single parts		Pcs.
Base plate w/o thread 45×90	1	148 g 1.47.2045090.0800.1
Pneumatic seal 45×90	1	6 g 1.51.14592
Threaded insert M14/M8	2	18 g 1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g 0.63.D00912.08016

50×100



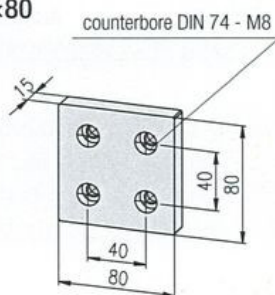
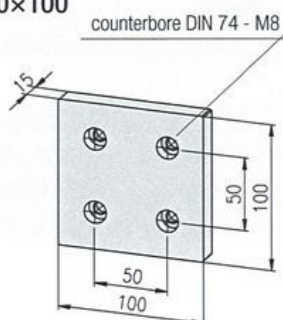
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 50×100	247 g	1.50.2050100.0800.0
Single parts		Pcs.
Base plate w/o thread 50×100	1	186 g 1.47.2050100.0800.1
Pneumatic seal 50×100	1	7 g 1.51.15102
Threaded insert M14/M8	2	18 g 1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g 0.63.D00912.08016

50×150



Description	Weight	Article-No.
Pneumatic end plate set w/o thread 50×150	371 g	1.50.2050150.0800.0
Single parts		Pcs.
Base plate w/o thread 50×150	1	280 g 1.47.2050150.0800.1
Pneumatic seal 50×150	1	10 g 1.51.15152
Threaded insert M14/M8	3	18 g 1.35.1140815
Cap-screw DIN 912 - M8×16	3	9 g 0.63.D00912.08016

Pneumatic end plate sets without thread

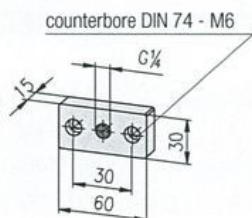
80×80

100×100


Description	Weight	Article-No.
Pneumatic end plate set w/o thread 80×80	343 g	1.50.2080080.0800.0
Single parts		
	Pcs.	
Base plate w/o thread 80×80	1 228 g	1.47.2080080.0800.1
Pneumatic seal 80×80	1 7 g	1.51.18082
Threaded insert M14/M8	4 18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	4 9 g	0.63.D00912.08016

Description	Weight	Article-No.
Pneumatic end plate set w/o thread 100×100	494 g	1.50.2100100.0800.0
Single parts		
	Pcs.	
Base plate w/o thread 100×100	1 374 g	1.47.2100100.0800.1
Pneumatic seal 100×100	1 12 g	1.51.20102
Threaded insert M14/M8	4 18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	4 9 g	0.63.D00912.08016

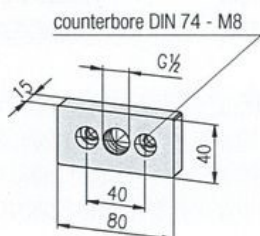
Pneumatic end plate sets with thread

30×60



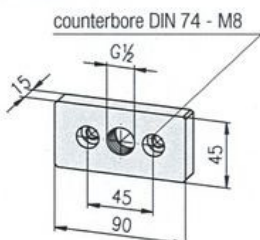
Description	Weight	Article-No.
Pneumatic end plate set 30×60	110 g	1.51.13060
Single parts		
	Pcs.	
Pneumatic end plate 30×60	1	53 g 1.51.13061
Pneumatic seal 30×60	1	3 g 1.51.13062
Threaded insert M14/M6	2	22 g 1.35.1140615
Cap-screw DIN 912 - M6×16	2	5 g 0.63.D00912.06016

40×80



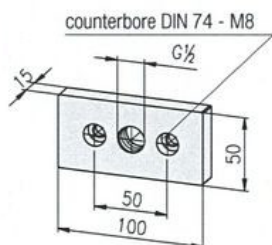
Description	Weight	Article-No.
Pneumatic end plate set 40×80	153 g	1.51.14080
Single parts		
	Pcs.	
Pneumatic end plate 40×80	1	94 g 1.51.14081
Pneumatic seal 40×80	1	5 g 1.51.14082
Threaded insert M14/M8	2	18 g 1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g 0.63.D00912.08016

45×90



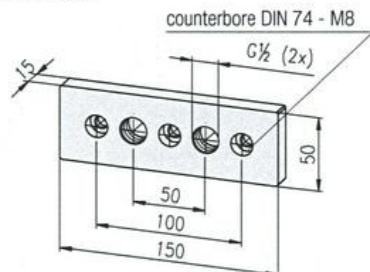
Description	Weight	Article-No.
Pneumatic end plate set 45×90	179 g	1.51.14590
Single parts		
	Pcs.	
Pneumatic end plate 45×90	1	119 g 1.51.14591
Pneumatic seal 45×90	1	6 g 1.51.14592
Threaded insert M14/M8	2	18 g 1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g 0.63.D00912.08016

50×100



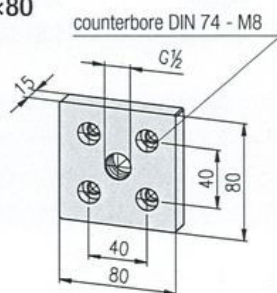
Description	Weight	Article-No.
Pneumatic end plate set 50×100	206 g	1.51.15100
Single parts		
	Pcs.	
Pneumatic end plate 50×100	1	145 g 1.51.15101
Pneumatic seal 50×100	1	7 g 1.51.15102
Threaded insert M14/M8	2	18 g 1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g 0.63.D00912.08016

50×150



Description	Weight	Article-No.
Pneumatic end plate set 50×150	322 g	1.51.15150
Single parts		
	Pcs.	
Pneumatic end plate 50×150	1	231 g 1.51.15151
Pneumatic seal 50×150	1	10 g 1.51.15152
Threaded insert M14/M8	3	18 g 1.35.1140815
Cap-screw DIN 912 - M8×16	3	9 g 0.63.D00912.08016

Pneumatic end plate sets with thread

80×80

Description

Pneumatic end plate set 80×80

Weight

251 g

Article-No.

1.51.18080

Single parts
Pcs.

Pneumatic end plate 80×80

1

136 g

1.51.18081

Pneumatic seal 80×80

1

7 g

1.51.18082

Threaded insert M14/M8

4

18 g

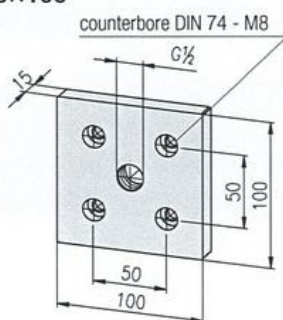
1.35.1140815

Cap-screw DIN 912 - M8×16

4

9 g

0.63.D00912.08016

100×100

Description

Pneumatic end plate set 100×100

Weight

416 g

Article-No.

1.51.20100

Single parts
Pcs.

Pneumatic end plate 100×100

1

296 g

1.51.20101

Pneumatic seal 100×100

1

12 g

1.51.20102

Threaded insert M14/M8

4

18 g

1.35.1140815

Cap-screw DIN 912 - M8×16

4

9 g

0.63.D00912.08016

Pneumatic connection plates



Application

Pneumatic connection for inlet and exhaust of air pressure



Technical data

End plate

- material: aluminium
- strength: F22
- surface: black powder-coated

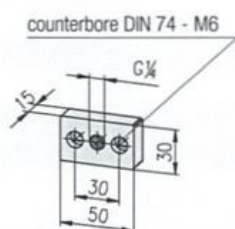
O-Ring

- material: NBR

Comments

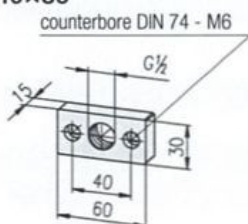
Counterbore DIN 74 - M6 / M8 for cap-screw DIN 912 - M6 / M8

30×60



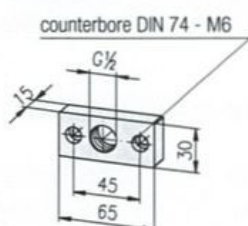
Description	Weight	Article-No.
Pneumatic connection plate set 30×60	59.2 g	1.52.03061
Single parts		
Pcs.		
Pneumatic connection plate for 30×60	1 40.0 g	1.52.03062
O-Ring 14×3	1 0.6 g	1.59.11403
T-Nut for subs. insertion F, M6	2 4.3 g	1.32.4FM6
Cap-screw DIN 912 - M6×12	2 5.0 g	0.63.D00912.06012

40×80



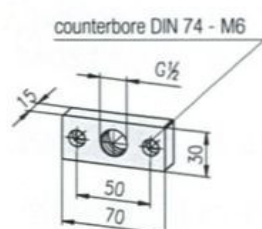
Description	Weight	Article-No.
Pneumatic connection plate set 40×80	80.6 g	1.52.14081
Single parts		
Pcs.		
Pneumatic connection plate for 40×80	1 50.0 g	1.52.14082
O-Ring 20×3	1 0.6 g	1.59.12003
T-Nut for subs. insertion E, M6	2 10.0 g	1.32.4EM6
Cap-screw DIN 912 - M6×16	2 5.0 g	0.63.D00912.06016

45×90



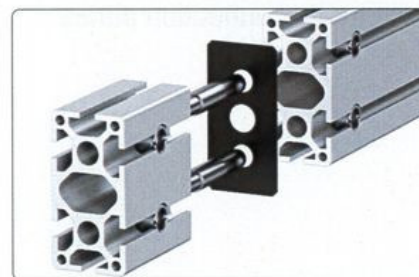
Description	Weight	Article-No.
Pneumatic connection plate set 45×90	84.6 g	1.52.04591
Single parts		
Pcs.		
Pneumatic connection plate for 45×90	1 5.0 g	1.52.04592
O-Ring 20×3	1 0.6 g	1.59.12003
T-Nut for subs. insertion E, M6	2 10.0 g	1.32.4EM6
Cap-screw DIN 912 - M6×16	2 5.0 g	0.63.D00912.06016

50×100



Description	Weight	Article-No.
Pneumatic connection plate set 50×100	90.6 g	1.52.15101
Single parts		
Pcs.		
Pneumatic connection plate for 50×100	1 60.0 g	1.52.15102
O-Ring 20×3	1 0.6 g	1.59.12003
T-Nut for subs. insertion E, M6	2 10.0 g	1.32.4EM6
Cap-screw DIN 912 - M6×16	2 5.0 g	0.63.D00912.06016

Pneumatic extension sets



For the extension of air pressurised profiles

for profile 30×60

Description	Pcs.	Weight	Article-No.
Pneumatic extension set 30×60		177 g	1.54.03061
Single parts			
Pneumatic seal 30×60	1	3 g	1.51.13062
Connector, profile extension	2	87 g	1.21.3V0

for profile 40×80

Pneumatic extension set 40×80		193 g	1.54.04081
Single parts			
Pneumatic seal 40×80	1	5 g	1.51.14082
Connector, profile extension	2	94 g	1.21.4V0

for profile 45×90

Pneumatic extension set 45×90		204 g	1.54.04591
Single parts			
Pneumatic seal 45×90	1	6 g	1.51.14592
Connector, profile extension	2	99 g	1.21.45V0

for profile 50×100

Pneumatic extension set 50×100		211 g	1.54.05101
Single parts			
Pneumatic seal 50×100	1	7 g	1.51.15102
Connector, profile extension	2	102 g	1.21.5V0

for profile 50×150

Pneumatic extension set 50×150		316 g	1.54.05151
Single parts			
Pneumatic seal 50×150	1	10 g	1.51.15152
Connector, profile extension	3	102 g	1.21.5V0

for profile 60×90

Pneumatic extension set 60×90		239 g	1.54.06091
Single parts			
Pneumatic seal 60×90	1	7 g	1.51.16092
Connector, profile extension	2	116 g	1.21.6V0

for profile 80×80 angle

Pneumatic extension set 80×80 W		289 g	1.54.08081W
Single parts			
Pneumatic seal 80×80 W	1	7 g	1.51.18082W
Connector, profile extension	3	94g	1.21.4V0

for profile 80×80

Pneumatic extension set 80×80		384 g	1.54.08081
Single parts			
Pneumatic seal 80×80	1	8 g	1.51.18082
Connector, profile extension	4	94 g	1.21.4V0

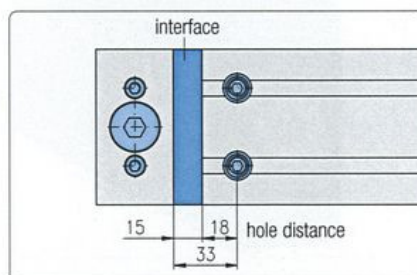
for profile 100×100

Pneumatic extension set 100×100		420 g	1.54.10101
Single parts			
Pneumatic seal 100×100	1	12 g	1.51.20102
Connector, profile extension	4	102 g	1.21.5V0

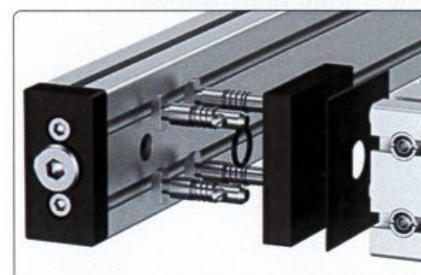
Pneumatic 90° connection sets



For 90° connections of air pressurised profiles



For the connection of profile 80×80, 100×100 a pneumatic connecting plate must be inserted to seal the chamber inside



for profile 30×60

Description	Pcs.	Weight	Article-No.
Pneumatic 90° connection set 30×60		99 g	1.55.03061
Single parts			
Pneumatic seal 30×60	1	3 g	1.51.13062
Connector, standard 90°	2	48 g	1.21.3F2

for profile 40×80

Pneumatic 90° connection set 40×80		115 g	1.55.04081
Single parts			
Pneumatic seal 40×80	1	5 g	1.51.14082
Connector, standard 90°	2	55 g	1.21.4E2

for profile 45×90

Pneumatic 90° connection set 45×90		63 g	1.55.04591
Single parts			
Pneumatic seal 45×90	1	6 g	1.51.14592
Connector, standard 90°	2	57 g	1.21.45E2

for profile 50×100

Pneumatic 90° connection set 50×100		125 g	1.55.05101
Single parts			
Pneumatic seal 50×100	1	7 g	1.51.15102
Connector, standard 90°	2	59 g	1.21.5E2

for profile 50×150

Pneumatic 90° connection set 50×150		187 g	1.55.05151
Single parts			
Pneumatic seal 50×150	1	10 g	1.51.15152
Connector, standard 90°	3	59 g	1.21.5E2

for profile 60×90

Pneumatic 90° connection set 60×90		70 g	1.55.06091
Single parts			
Pneumatic seal 60×90	1	7 g	1.51.16092
Connector, standard 90°	2	63 g	1.21.6E2

for profile 80×80

Pneumatic 90° connection set 80×80		446 g	1.55.08081
Single parts			
Pneumatic seal 80×80	1	8 g	1.51.18082
Connector, standard 90°	4	55 g	1.21.4E2
Pneumatic connecting plate	1	217 g	1.55.08084
O-Ring 20×3	1	0.6 g	1.59.12003

for profile 100×100

Description	Pcs.	Weight	Article-No.
Pneumatic 90° connection set 100×100		618 g	1.55.10101
Single parts			
Pneumatic seal 100×100	1	12 g	1.51.20102
Connector, standard 90°	4	55 g	1.21.5E2
Pneumatic connecting plate	1	369 g	1.55.10104
O-Ring 20×3	1	0.6 g	1.59.12003

Pneumatic accessories



Application

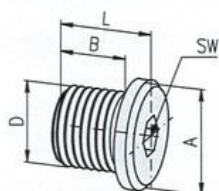
Blanking plug for the connection thread



Application

Reducing nipple to reduce the connection thread

Blanking plug



Technical data

material:

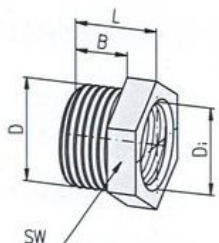
- blanking plug: steel, galvanised
- sealing: NBR

Comments

Including sealing

Description	D	A	B	L	SW	Weight	Article-No.
Blanking plug, B-1/4"		18	12	15	6	15 g	1.59.01030
Blanking plug, B-1/2"		26	14	18	10	43 g	1.59.01050

Reducing nipple



Technical data

material: brass

Description	Di	D	B	L	SW	Weight	Article-No.
Reducing nipple, 1/4" i - 3/8" a			9	14	19	14 g	1.59.02040
Reducing nipple, 3/8" i - 1/2" a			10	14	22	25 g	1.59.02050

Sealing ring

for reducing nipple



Technical data

material: PA, white

Description	D	Weight	Article-No.
Sealing ring Ø1/4"		1 g	1.59.03030
Sealing ring Ø3/8"		1 g	1.59.03040
Sealing ring Ø1/2"		2 g	1.59.03050

1.6 Additional accessories



Handles
light PA
➔ 6.03



Handle
light
➔ 6.03



Handle PA with
mounting thread
➔ 6.04



Handles PA
➔ 6.04



Handle PA with
mounting thread
➔ 6.05



Handle system
round design
➔ 6.06



Handle system
oval design
➔ 6.07



Grab handles
made of profiles
➔ 6.08



Grab handle profiles
➔ 6.08



Hinges
➔ 6.09, 6.12



Lift-off hinges
➔ 6.10 - 6.11



Double hinge
➔ 6.13



Hinges
➔ 6.14 - 6.18



Alu hinges
➔ 6.19 - 6.20



Alu hinges,
heavy
➔ 6.21 - 6.22



Joints
➔ 6.23 - 6.25



Joints
with clamping lever
➔ 6.23 - 6.25



Mounting blocks
screw-type
➔ 6.26



Mounting block
GD-Zn
➔ 6.27



Mounting blocks
for subs. insertion
➔ 6.28 - 6.29



Mounting clamp blocks
for subs. insertion
➔ 6.30 - 6.32



Quick locks
➔ 6.33 - 6.34



Bullet catches
➔ 6.35



Bullet catch PA
➔ 6.36



Magnetic lock PA
➔ 6.37



Lock
➔ 6.38



Cylinder locks
➔ 6.39



Cylinder locks
with security latch
➔ 6.40



Flap-lock countersunk
➔ 6.41



Cylinder locks
flush
➔ 6.42 - 6.43



Mortise deadlocks
➔ 6.44 - 6.47



Bar locks
➔ 6.48 - 6.51



Latch lock
➔ 6.52 - 6.53



Rollers
➔ 6.54 - 6.55



Twin track guide
➔ 6.55



Roller fastening sets
➔ 6.56 - 6.59



Mounting adaptor
for roller
➔ 6.60



Edge roller
➔ 6.61



Runner for sliding sus-
pended doors
➔ 6.62



Alu-C-track
for suspended doors
➔ 6.62



Frame guide
for suspended doors
➔ 6.63



Rubber door stop
for suspended doors
➔ 6.63



Slot rollers
➡ 6.64



Sliding blocks
➡ 6.66



T-Nut sliding blocks
➡ 6.67



Eco-Slides
➡ 6.68 - 6.71



Safety barriers
mounting, type 1
➡ 6.72



Safety barriers
mounting, type 2
➡ 6.73

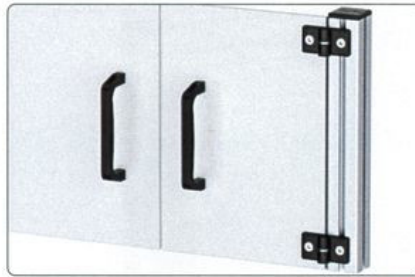


Hanging bracket
➡ 6.76



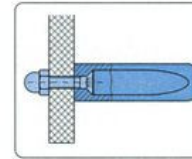
Suspended glider
➡ 6.79

Handles light PA

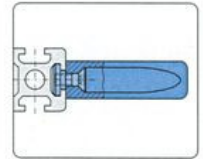


Application

For doors and drawers of light material



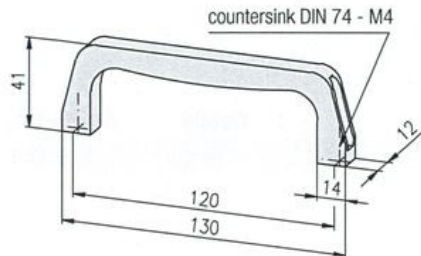
Mounting on panel elements



Mounting on profiles

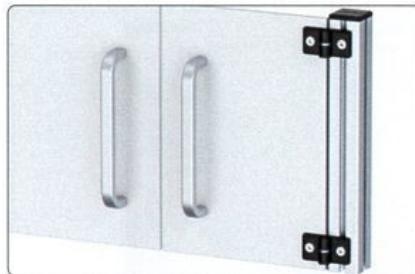
Technical data

material: PA



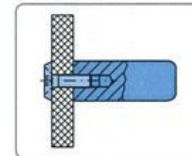
Description	Colour	Weight	Article-No.
Handle light PA	grey	30 g	1.61.20.1
Handle light PA	black	30 g	1.61.20.2

Handle light Alu

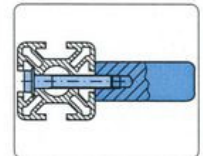


Application

For doors and drawers of light material



Mounting on panel elements

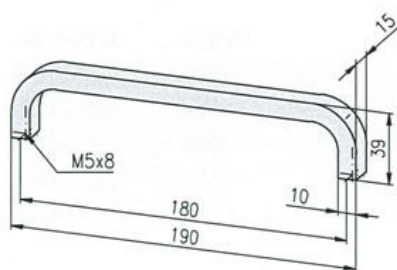


Mounting on profiles

Technical data

material: aluminium

surface: natural anodised



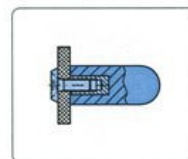
Description	Weight	Article-No.
Handle light Alu	85 g	1.61.210

Handle PA

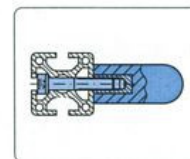


Application

Ergonomical designed handle



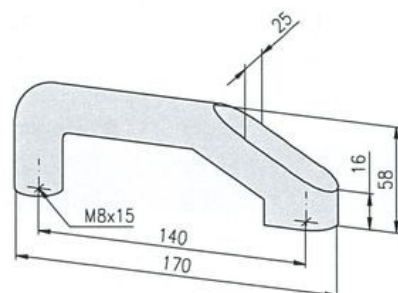
Mounting on panel elements



Mounting on profiles

Technical data

material: PA
colour: black



Description

Handle PA, with thread M8

Weight

166 g

Article-No.

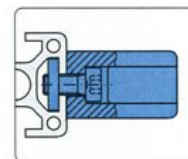
1.61.230

Handles PA

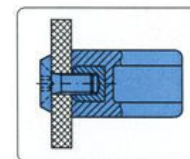


Application

Handle with fixing possibilities from the front and the rear



Handle with bore

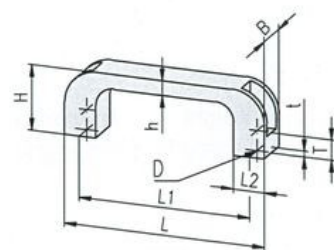


Handle with thread

Technical data

material: PA
colour: black

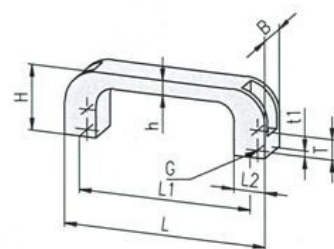
with bore



Description

Description	D	L	Weight	Article-No.
Handle PA, with bore	Ø6.5	110	24 g	1.61.24110
Handle PA, with bore	Ø6.5	139	44 g	1.61.24139
Handle PA, with bore	Ø8.5	151	64 g	1.61.24151
Handle PA, with bore	Ø8.5	200	74 g	1.61.24200
Handle PA, with bore	Ø10.5	260	114 g	1.61.24260

with thread



Description

Description	G	L	Weight	Article-No.
Handle PA, with thread	M6	110	30 g	1.61.25110
Handle PA, with thread	M6	139	50 g	1.61.25139
Handle PA, with thread	M8	151	70 g	1.61.25151
Handle PA, with thread	M8	200	88 g	1.61.25200
Handle PA, with thread	M10	260	125 g	1.61.25260

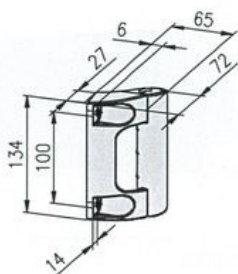
L	L1	L2	H	h	T	t	t1	B
110	94	17	37	8	13	6	10	21
139	120	20	40	10	15	6	10	24
151	132	22	43	10	16	6	15	26
200	180	25	50	11	20	9	15	28
260	235	28	53	12	21	11	15	32

Handles PA



Application

Machine handle with ergonomic design and finger protection; to mount on doors, flaps and aluminum profiles



Technical data

material: PA
colour: black

Description

Handle PA, 135, with screw covers

Weight

117 g

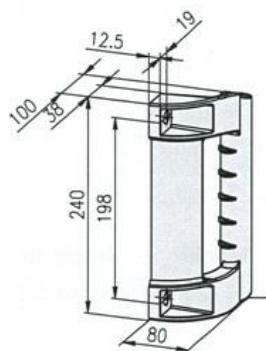
Article-No.

1.61.26135



Technical data

material: PA
colour: black



Description

Handle PA, 240, with screw covers

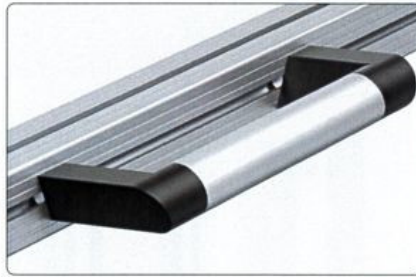
Weight

356 g

Article-No.

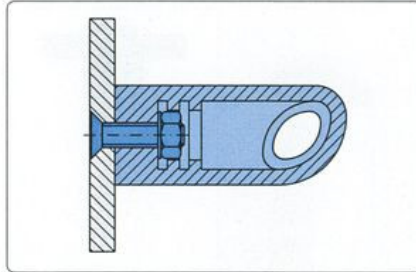
1.61.26240

Handle system oval design

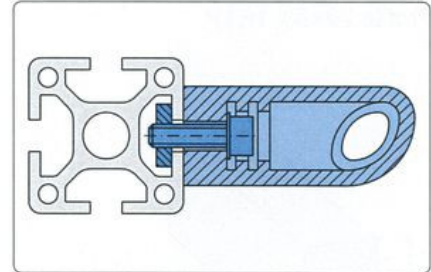


Application

Handle system for making handles of any length

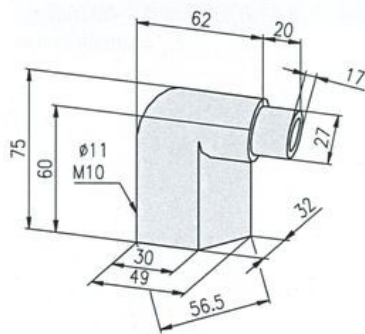


Mounting on panel elements



Mounting on profiles

Oval corner piece right



Technical data

material: PA-GF
colour: black

Description

Oval corner piece right

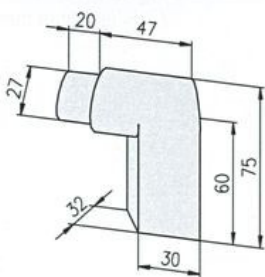
Weight

65 g

Article-No.

1.61.290

Oval corner piece left



Technical data

material: PA-GF
colour: black

Description

Oval corner piece left

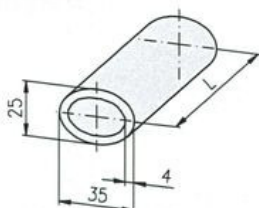
Weight

65 g

Article-No.

1.61.291

Oval tube 35×4



Technical data

material: aluminium
surface: natural anodised
tube length: 3 m

Description

Oval tube 35×4

Weight

2.5 kg

Article-No.

1.19.14535.30



Oval tube 35×4

cut to length

0.83 kg/m

1.19.14535-A00A00/...

/... = length in mm

Grab handles



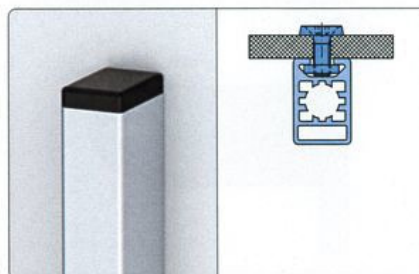
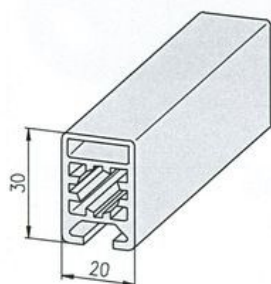
Application

Alu grip handles for customer's assembly from standard profiles

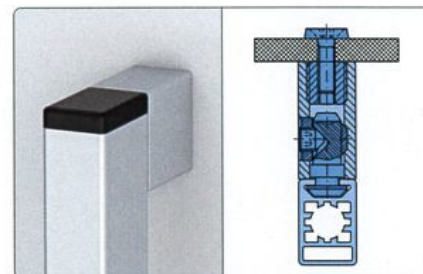
Comments

Grab handles increase the rigidity of panels without profile frames

Profile 20×30, 1F, LP



Fixing of the profile directly on the panel element



Fixing of the profile with a connecting piece on the panel element

Description



Profile 20×30, 1F, LP

cut to length

Weight

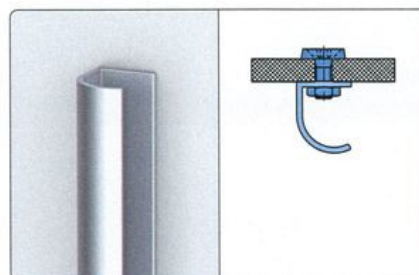
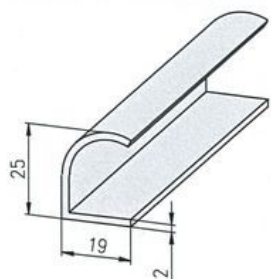
0.66 kg/m

Article-No.

1.11.020030.14LP-A00A00/...

/... = length in mm

Grab handle profiles



Description



Grab handle profile

cut to length

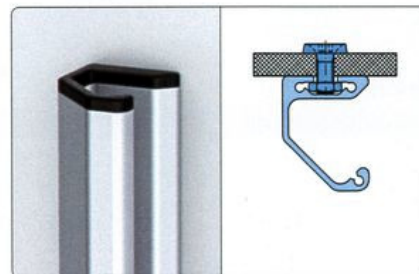
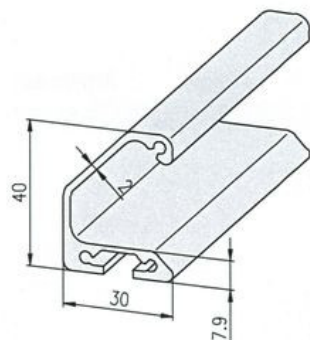
Weight

0.3 kg/m

Article-No.

1.19.14319-A00A00/...

/... = length in mm



Description



Grab handle profile

cut to length

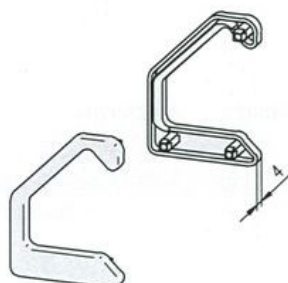
Weight

0.73 kg/m

Article-No.

1.19.14330-A00A00/...

/... = length in mm



Technical data

material: PA-GF

colour: black

Description

Cover cap kit left/right for grab handle profile

Weight

3.6 g

Article-No.

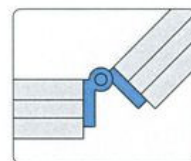
1.19.14330A

Hinges

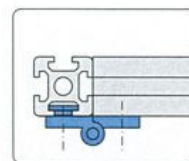


Application

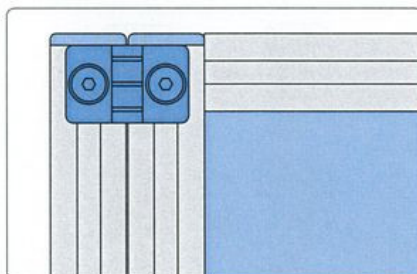
Hinge for doors and flaps of light material



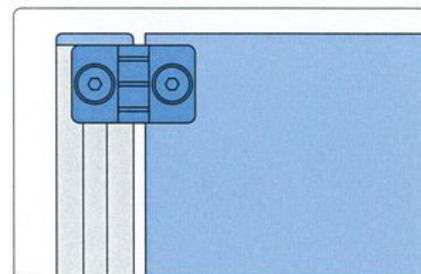
Face-sided connection of 2 profiles



Connection of 2 profiles in rectangular position

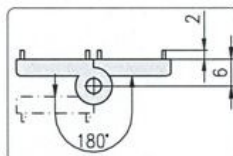
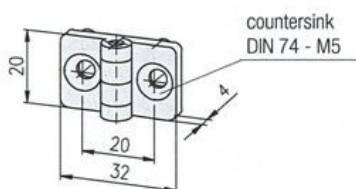


Doors with profile frames



Doors made of panel elements without profile frames

Technical data			
Hinge	20×32	30×39	40×40
material:	PA-GF	PA-GF	GD-Zn, coated
colour:	black		
max. static load:	50 N	100 N	150 N



Swivel angle

Comments

Countersink DIN 74 - M5 for countersunk screw DIN 7991 - M5

16 20 30 40 45 50 60

Description

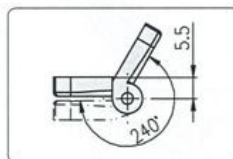
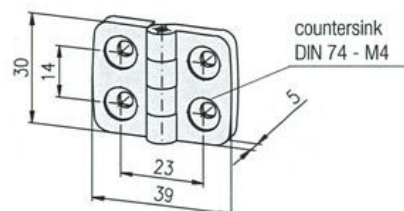
Hinge 20×32

Weight

6 g

Article-No.

1.62.12032



Swivel angle

Comments

Countersink DIN 74 - M4 for countersunk screw DIN 7991 - M4

16 20 30 40 45 50 60

Description

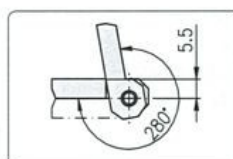
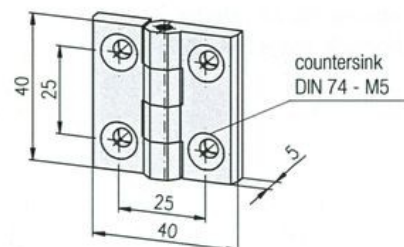
Hinge 30×39

Weight

7.6 g

Article-No.

1.62.23039



Swivel angle

Comments

Countersink DIN 74 - M5 for countersunk screw DIN 7991 - M5

16 20 30 40 45 50 60

Description

Hinge 40×40

Weight

55 g

Article-No.

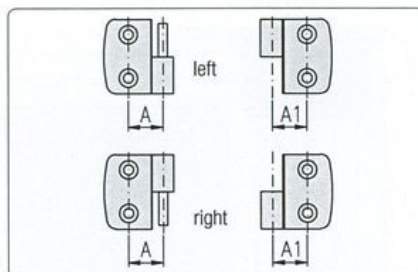
1.62.24040

Lift-off hinges

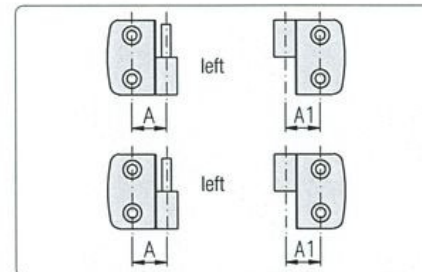


Application

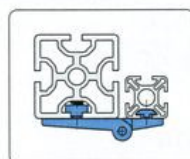
The hinges enable the connection of profiles with different widths



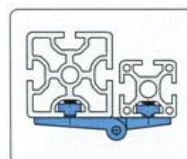
Non-liftable door with one right- and one left-sided hinge



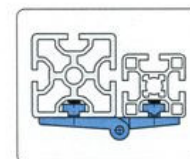
Liftable door with two similar hinges



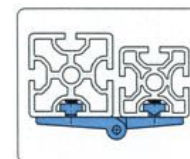
1 profile 60×60
1 profile 30×30



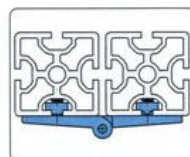
1 profile 60×60
1 profile 40×40



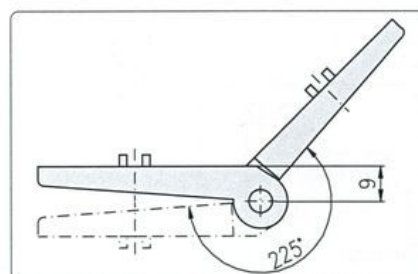
1 profile 60×60
1 profile 45×45



1 profile 60×60
1 profile 50×50



2 profiles 60×60



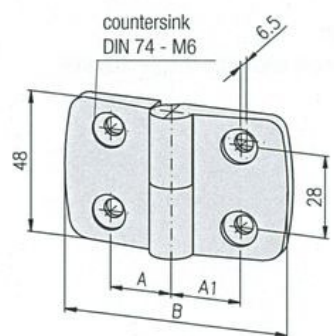
Swivel angle

Technical data

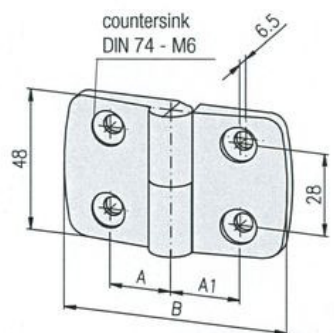
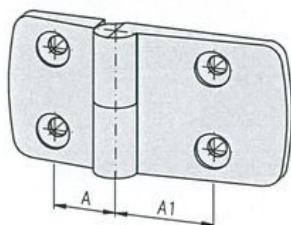
material: PA-GF
surface: black
hinge bolt: stainless steel
max. static load: 150 N

Comments

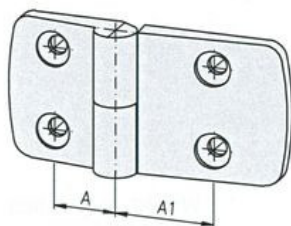
Countersink DIN 74 - M6 for
countersunk screw DIN 7991 - M6



16 20 30 40 45 50 60



16 20 30 40 45 50 60



Description	A = A1	B	Weight	Article-No.
Lift-off hinge 48	A17.5, left	59	8 g	1.62.348.17/17L
Lift-off hinge 48	A22.5, left	77	10 g	1.62.348.22/22L
Lift-off hinge 48	A25.0, left	87	15 g	1.62.348.25/25L
Lift-off hinge 48	A27.5, left	97	25 g	1.62.348.27/27L
Lift-off hinge 48	A32.5, left	115	35 g	1.62.348.32/32L

Combinations

Description	A ¹⁾ A1 ¹⁾	Article-No.
Lift-off hinge 48 × □□/□□ left		1.62.348.□□/□□L

¹⁾ Data without decimal places

Description	A = A1	B	Weight	Article-No.
Lift-off hinge 48	A17.5, right	59	8 g	1.62.348.17/17R
Lift-off hinge 48	A22.5, right	77	10 g	1.62.348.22/22R
Lift-off hinge 48	A25.0, right	87	15 g	1.62.348.25/25R
Lift-off hinge 48	A27.5, right	97	25 g	1.62.348.27/27R
Lift-off hinge 48	A32.5, right	115	35 g	1.62.348.32/32R

Combinations

Description	A ¹⁾ A1 ¹⁾	Article-No.
Lift-off hinge 48 × □□/□□ right		1.62.348.□□/□□R

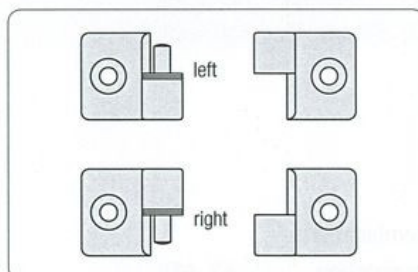
¹⁾ Data without decimal places

Hinges

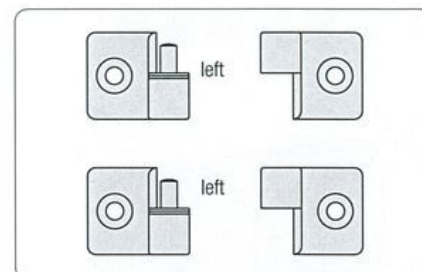


Application

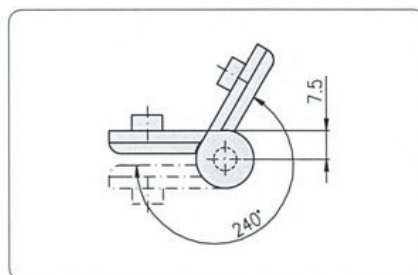
Hinge for doors and flaps of light material



Non-liftable door with one right- and one left-sided hinge



Liftable door with two similar hinges



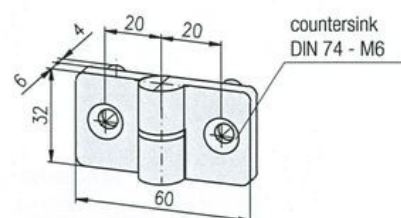
Swivel angle

Technical data

material: PA-GF
colour: black
max. static load: 100 N

Comments

Countersink DIN 74 - M6 for
countersunk screw DIN 7991 - M6



16 20 30 **40** 45 50 60

Description

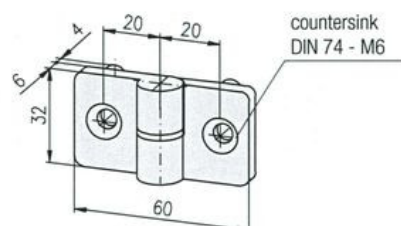
Hinge 32×60 left

Weight

21 g

Article-No.

1.62.41L



16 20 30 **40** 45 50 60

Description

Hinge 32×60 right

Weight

21 g

Article-No.

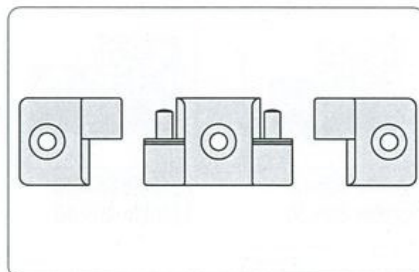
1.62.41R

Double hinge

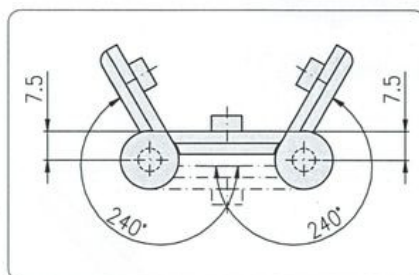


Application

Hinge for doors and flaps of light material



Liftable doors



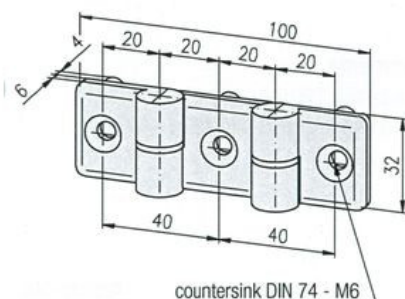
Swivel angle

Technical data

material: PA-GF
max. static load: 100 N

Comments

Countersink DIN 74 - M6 for
countersunk screw DIN 7991 - M6



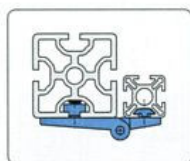
16 20 30 **40** 45 50 60

Description	Colour	Weight	Article-No.
Double hinge	grey	40 g	1.62.420.1
Double hinge	black	40 g	1.62.420.2

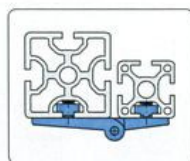
Hinges


Application

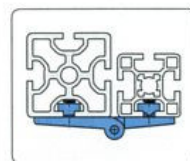
The hinges enable the connection of profiles with different widths



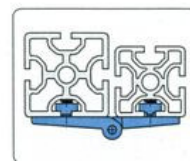
1 profile 60×60
1 profile 30×30



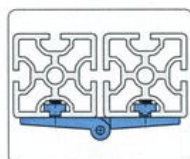
1 profile 60×60
1 profile 40×40



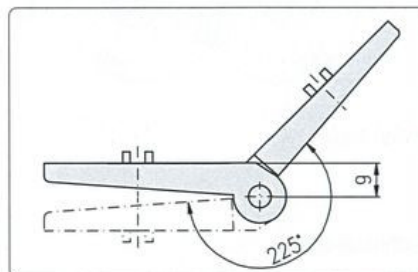
1 profile 60×60
1 profile 45×45



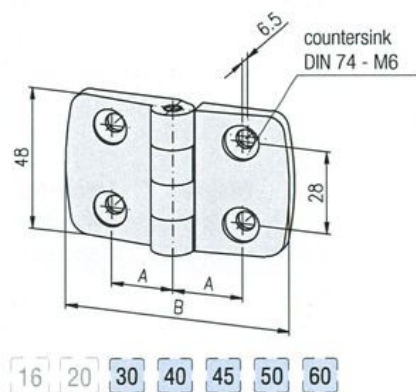
1 profile 60×60
1 profile 50×50



2 profiles 60×60



Swivel angle

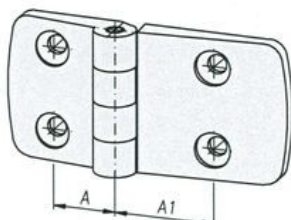

Technical data

material: PA-GF
colour: black
hinge bolt: stainless steel
max. static load: 200 N

Comments

Countersink DIN 74 - M6 for
countersunk screw DIN 7991 - M6

Description	A	B	Weight	Article-No.
Hinge 48 fixed	A17.5	59	8 g	1.62.448.17/17
Hinge 48 fixed	A22.5	77	10 g	1.62.448.22/22
Hinge 48 fixed	A25.0	87	15 g	1.62.448.25/25
Hinge 48 fixed	A27.5	97	25 g	1.62.448.27/27
Hinge 48 fixed	A32.5	115	35 g	1.62.448.32/32


Combinations

Description	A ¹⁾	A1 ¹⁾	Article-No.
Hinge 48 fixed × □□/□□			1.62.448.□□/□□

¹⁾ Data without decimal places

Hinge 30×60

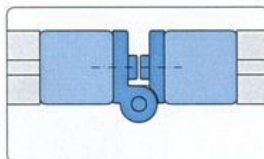


Application

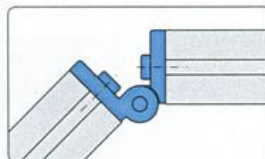
Hinge or higher loads such as doors with profile frames

Technical data

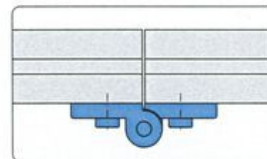
material: GD-Zn
colour: black
surface: coated
max. static load: 400 N



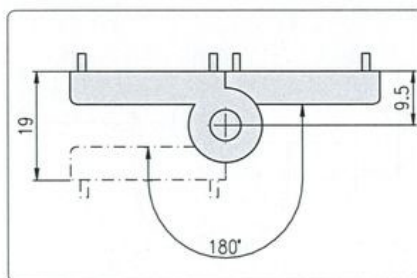
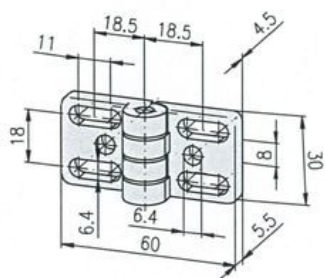
Connection of 2 vertical profiles, all anti-twist safety devices removed



Face-sided connection of 2 profiles, with anti-twist safety device



Connection of 2 horizontal profiles, with anti-twist safety device



Swivel angle

Description

Hinge 30×60

Weight

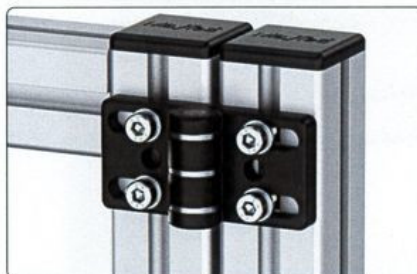
68.8 g

Article-No.

1.62.51030060

16 20 30 40 45 50 60

Hinge 40×80

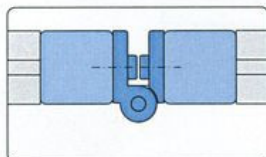


Application

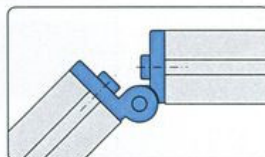
Hinge or higher loads such as doors with profile frames

Technical data

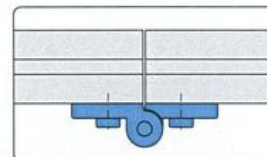
material: GD-Zn
colour: black
surface: coated
max. static load: 750 N



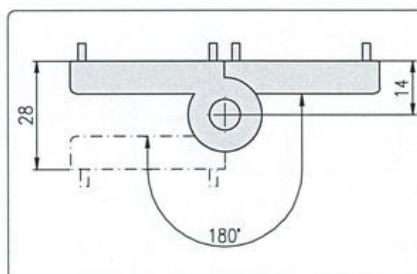
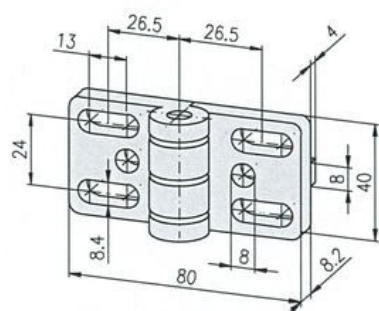
Connection of 2 vertical profiles, all anti-twist safety devices removed



Face-sided connection of 2 profiles, with anti-twist safety device



Connection of 2 horizontal profiles, with anti-twist safety device



Swivel angle

Description

Hinge 40×80

Weight

180 g

Article-No.

1.62.520

Hinges 40×80

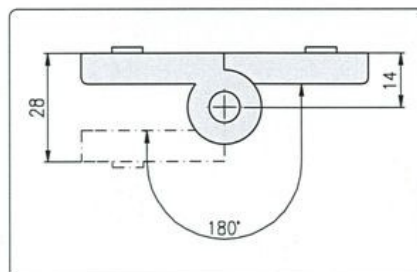


Application

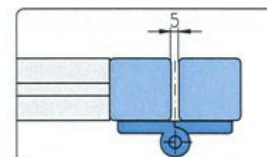
Hinge or higher loads such as doors with profile frames

Technical data

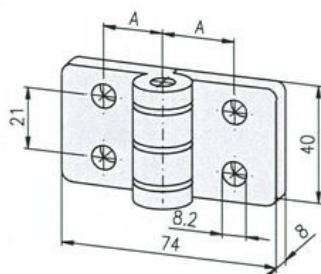
material: GD-Zn
colour: black
surface: powder-coated
max. static load: 750 N



Swivel angle



Connection of 2 vertical profiles



Fastening elements:

PG 40: T-Nut for subs. insertion E, M8 1.32.4EM8
PG 45: T-Nut E, M8 1.32.EM8
PG 40/45: Threaded plate E, M8 1.31.EM8

Description

A

Weight

Article-No.

Hinge 40×80 for PG 40

22.5

194 g

1.62.53045

Hinge 40×80 for PG 45

25.0

194 g

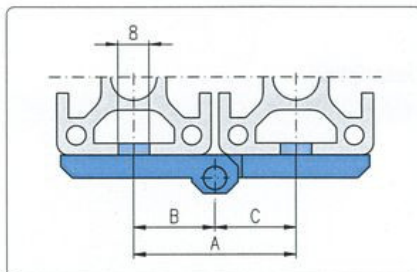
1.62.53050

Hinges

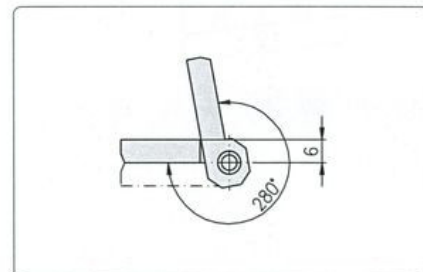


Application

Hinge with detachable fixing plug for different slot distances



Doors with profile frames



Swivel angle

Technical data

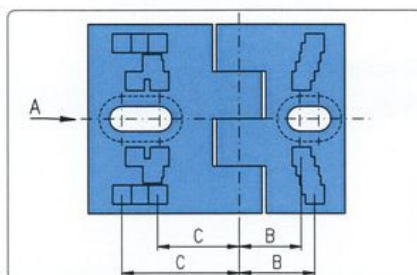
material: GD-Zn
surface: coated
colour: black
max. static load: 250 N

Comments

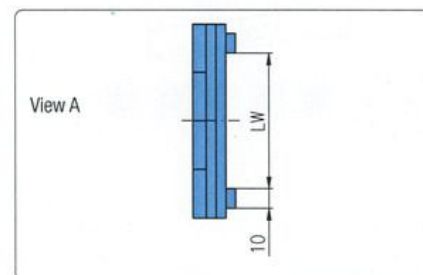
Countersink DIN 74 - M6 for
countersunk screw DIN 7991 - M6

Delivery unit

Including 4 plugs for F- and E-slot



Distances for positioning plugs



View A

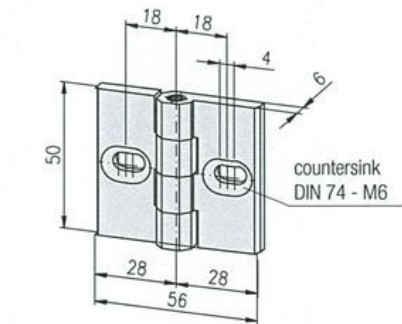
Possibilities of fastening

Legend

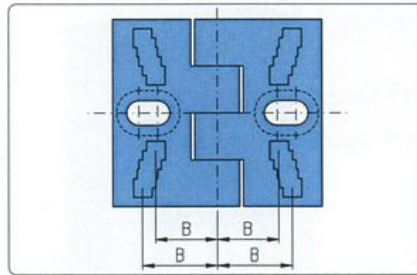
LW = width
G = threaded plate 1.31.□□□
T = T-Nut 1.32.4□□

short flange		slots					
		F		E3		E4	
B	LW	G	T	G	T	G	T
16.5	11	-	-	x	-	x	x
17.5	14.75	x	x	x	-	x	x
18.5	20.5	x	x	x	x	x	x
19	25.25	x	x	x	x	x	x
20	30	x	x	x	x	x	x

long flange		slots					
		F		E3		E4	
C	LW	G	T	G	T	G	T
21	11	-	-	x	-	x	x
21.5	30	x	x	x	x	x	x
23.5	19	x	x	x	-	x	x
26	30	x	x	x	x	x	x
27.5	11	-	-	x	-	x	x
31	30	x	x	x	x	x	x

Hinge 50×56


16 20 30 40 45 50 60



Rear view: plug assignment

2 short flanges

B
16.5
17.5
18.5
19
20

Description

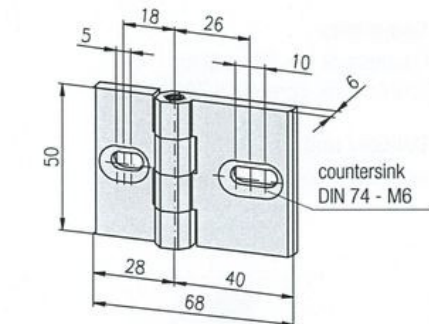
Hinge 50×56

Weight

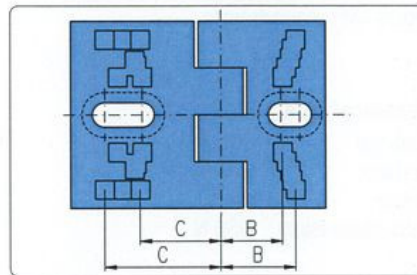
112 g

Article-No.

1.62.65056

Hinge 50×68


16 20 30 40 45 50 60



Rear view: plug assignment

1 short flange, 1 long flange

B	C
16.5	21
17.5	21.5
18.5	23.5
19	26
20	27.5
	31

Description

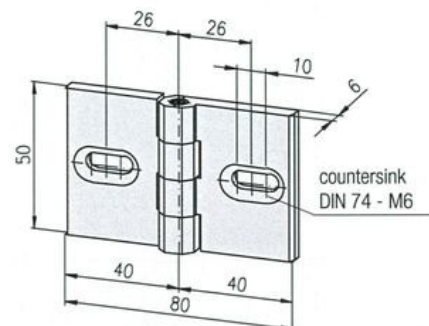
Hinge 50×68

Weight

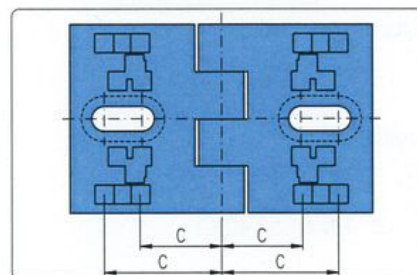
130 g

Article-No.

1.62.65068

Hinge 50×80


16 20 30 40 45 50 60



Rear view: plug assignment

2 long flanges

C
21
21.5
23.5
26
27.5
31

Description

Hinge 50×80

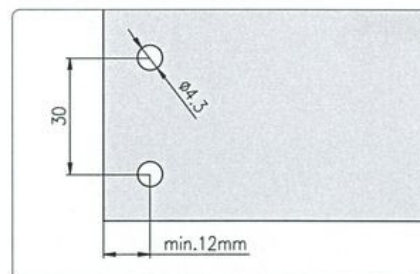
Weight

130 g

Article-No.

1.62.65080

Alu hinges



Distance of drill holes for panel elements of acrylic glass

Application

For doors of light material with or without profile frame, each hinge element can be combined

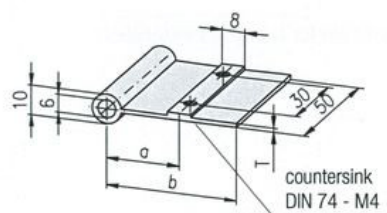
Technical data

material: aluminium Al Mg Si 0.5
strength: F 25
surface: natural anodised
max. static load: 100 N

Comments

Countersink DIN 74 - M4 for
countersunk screw DIN 7991 - M4
raw finish on request

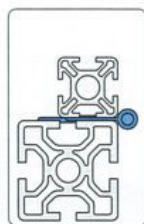
Type A



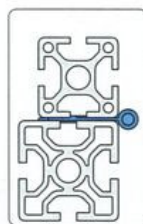
16 20 30 40 45 50 60



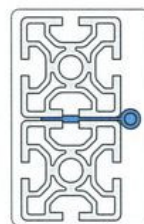
1 profile 20×30
1 profile 50×50



1 profile 30×30
1 profile 50×50



1 profile 40×40
1 profile 50×50



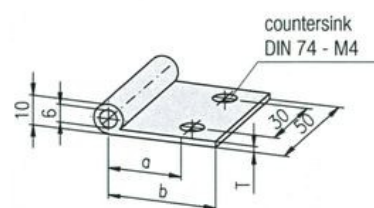
2 profiles 50×50

Connection:

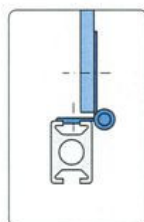
- profile to profile
- leg built-in covered
- hinge elements:
Type A
Type A

Description	T	a	b	Weight	Article-No.
Hinge element Type A, PG 20, F	1.5	15.3	21	10 g	1.62.7120
Hinge element Type A, PG 30	1.5	20.3	29	11 g	1.62.7130
Hinge element Type A, PG 30	3.0	20.3	29	15 g	1.62.7130.030
Hinge element Type A, PG 40	1.5	25.3	37	13 g	1.62.7140
Hinge element Type A, PG 40	3.0	25.3	37	19 g	1.62.7140.030
Hinge element Type A, PG 50	1.5	30.3	45	14 g	1.62.7150
Hinge element Type A, PG 50	3.0	30.3	45	21 g	1.62.7150.030

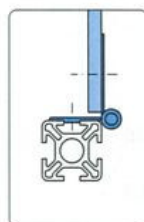
Type B



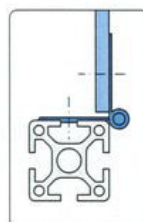
16 20 30 40 45 50 60



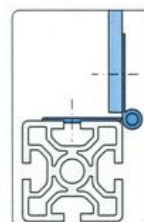
profile 20×30



profile 30×30



profile 40×40



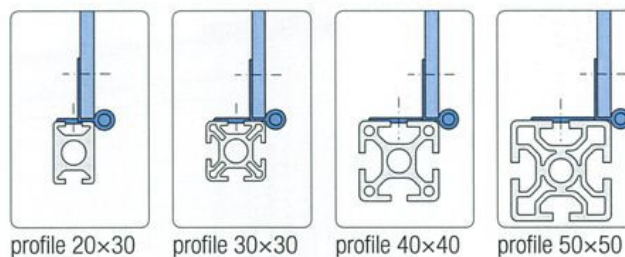
profile 50×50

Connection:

- profile to panel element
- leg one side visible
- hinge elements:
Type A
Type B

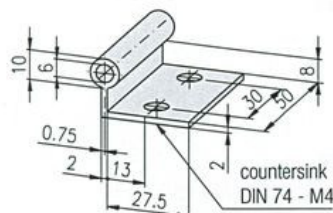
Description	T	a	b	Weight	Article-No.
Hinge element Type B, PG 20	2.0	15.3	21	11 g	1.62.7220
Hinge element Type B, PG 20	3.0	15.3	21	13 g	1.62.7220.030
Hinge element Type B, PG 30	2.0	20.3	29	11 g	1.62.7230
Hinge element Type B, PG 30	3.0	20.3	29	13 g	1.62.7230.030
Hinge element Type B, PG 40	2.0	25.3	37	13 g	1.62.7240
Hinge element Type B, PG 40	3.0	25.3	37	16 g	1.62.7240.030
Hinge element Type B, PG 50	2.0	30.3	45	14 g	1.62.7250
Hinge element Type B, PG 50	3.0	30.3	45	18 g	1.62.7250.030

Type C



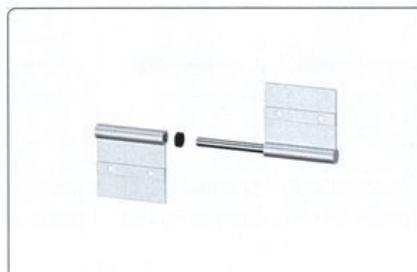
Connection:

- Profile to panel element
- leg built-in covered
- hinge elements:
Type A
Type C

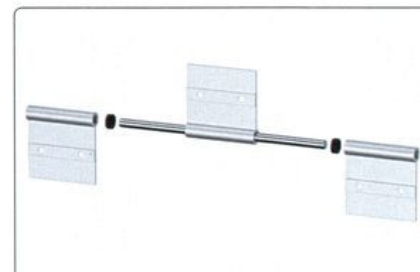


Description	Weight	Article-No.
Hinge element Type C, 30 mm	15 g	1.62.7330

Press-fit pins for alu hinges



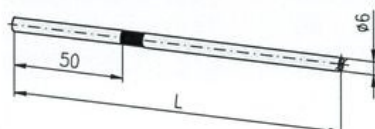
Press-fit pin for one sided installation



Press-fit pin for two sided installation

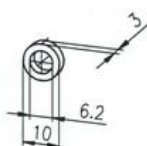
Technical data

material: steel
surface: galvanised



Description	L	Weight	Article-No.
Press-fit pin Ø6	100	29 g	1.62.7910
Press-fit pin Ø6	150	33 g	1.62.7915

Spacer



Technical data

material: PE
colour: black

Description	Weight	Article-No.
Spacer	1 g	1.62.7810

Alu hinges, heavy



Application

Hinge for higher loads such as doors with profile frames

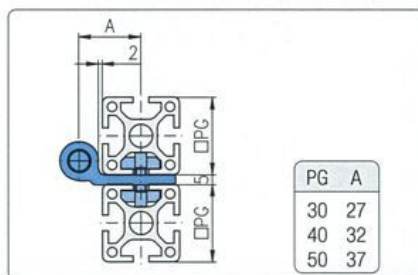
Technical data

hinge material: aluminium
strength: F25
surface: natural anodised
bolt material: stainless steel

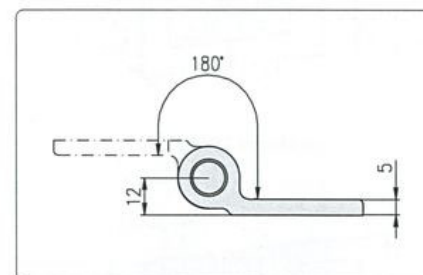


Comments

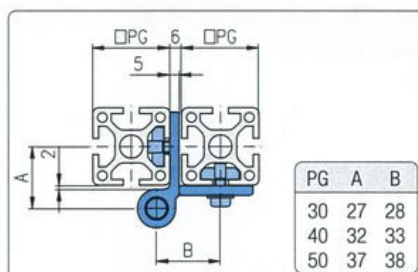
Countersink DIN 74 - M8 for
countersunk screw DIN 7991 - M8
raw finish on request



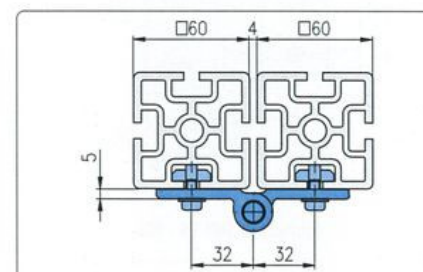
Application: Type 20



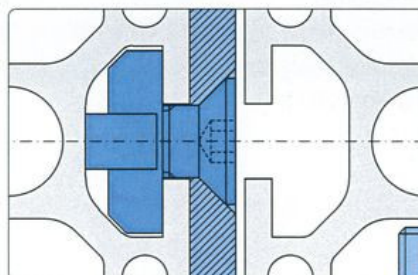
Swivel angle: Type 20



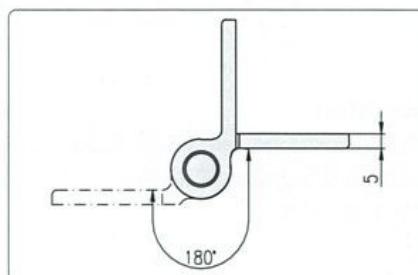
Application: Type 21, 22, 23, 31
with profiles PG 40/50



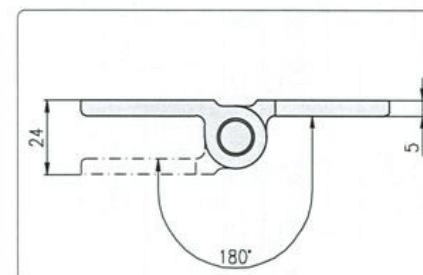
Application: Type 21, 22, 23, 31
with profiles PG 60



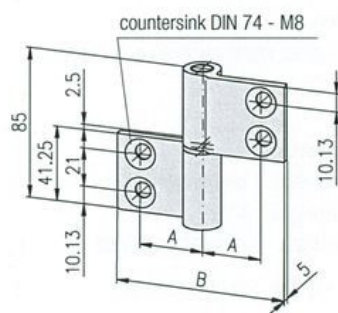
Application: Type 21, 22, 23, 31
with profiles PG 30/40/50



Swivel angle: Type 21, 22, 23, 31
at application with profiles PG 30/40/50

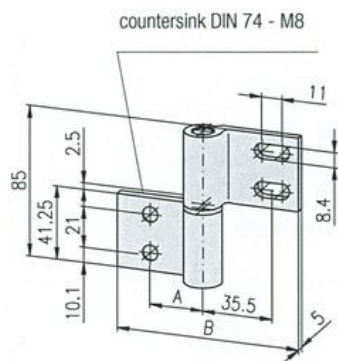


Swivel angle: Type 21, 22, 23, 31
at application with profiles PG 60



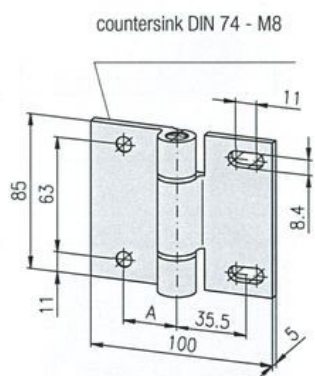
Description	A	B	Weight	Article-No.
Alu hinge, heavy, type 20, PG 30	27	78	130 g	1.62.842027085V
Alu hinge, heavy, type 20, PG 40	32	100	166 g	1.62.842032085V
Alu hinge, heavy, type 20, PG 50	37	100	166 g	1.62.842037085V

max. load 150 N



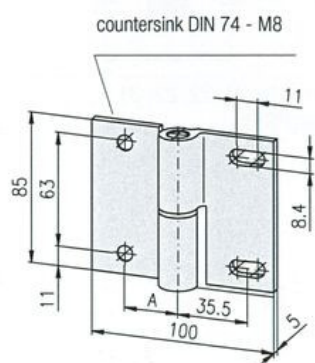
Description	A	B	Weight	Article-No.
Alu hinge, heavy, type 21, PG 30/40-50	27	89	123 g	1.62.842127085V
Alu hinge, heavy, type 21, PG 40/40-50	32	100	159 g	1.62.842132085V
Alu hinge, heavy, type 21, PG 50	37	100	159 g	1.62.842137085V

max. load 150 N



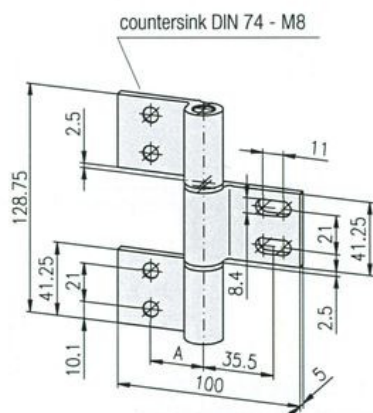
Description	A	Weight	Article-No.
Alu hinge, heavy, type 22, PG 40/40-50	32	261 g	1.62.842232085V
Alu hinge, heavy, type 22, PG 50	37	261 g	1.62.842237085V

max. load 250 N



Description	A	Weight	Article-No.
Alu hinge, heavy, type 23, PG 40/40-50	32	258 g	1.62.842332085V
Alu hinge, heavy, type 23, PG 50	37	258 g	1.62.842337085V

max. load 250 N



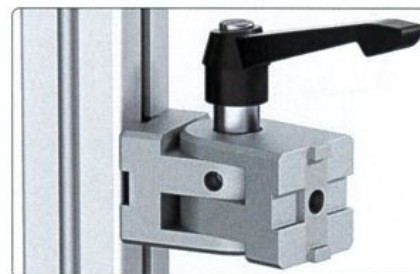
Description	A	Weight	Article-No.
Alu hinge, heavy, type 31, PG 40/40-50	32	245 g	1.62.843132128V
Alu hinge, heavy, type 31, PG 50	37	245 g	1.62.843137128V

max. load 250 N

Joints with / without clamping lever



The MayTec clamping system allows backlash free adjusting and clamping



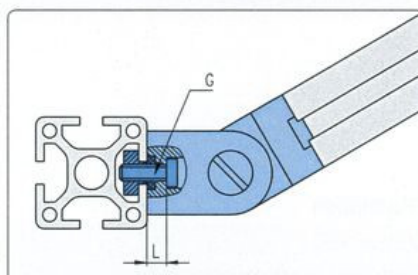
The joint can be locked with the adjustable clamping lever

Application

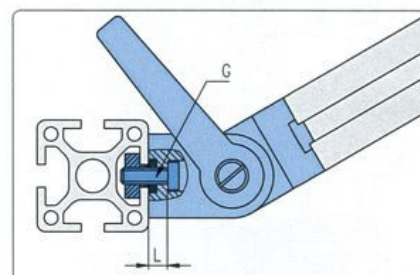
To enable infinitely variable adjusting and swivelling of profiles

Technical data

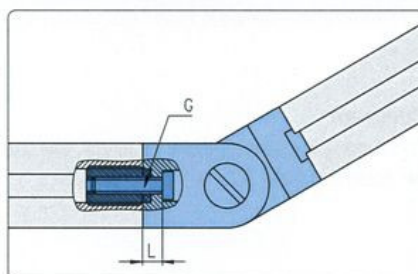
material: steel
surface: galvanised



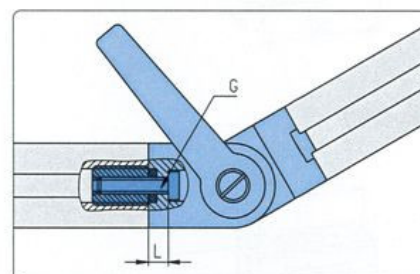
Mounting on profile side



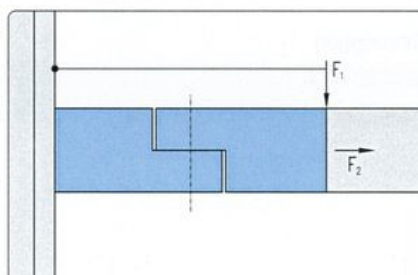
Mounting on profile side



Mounting on profile end



Mounting on profile end



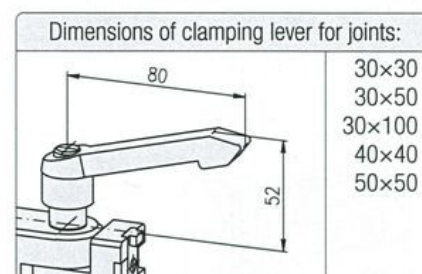
max. loads		
Joint	F1 _{max}	F2 _{max}
20×20	10 Nm	2,000 N
30×30	30 Nm	4,000 N
30×50	50 Nm	4,000 N
30×100	100 Nm	8,000 N
30×100 ¹⁾	200 Nm	8,000 N
40×40	50 Nm	6,000 N
50×50	60 Nm	10,000 N

¹⁾ with fastening plate

Comments

Mounting with:

- cap-screw DIN 6912
- washer DIN 433



Joints Zn with / without clamping lever



The MayTec clamping system allows backlash free adjusting and clamping



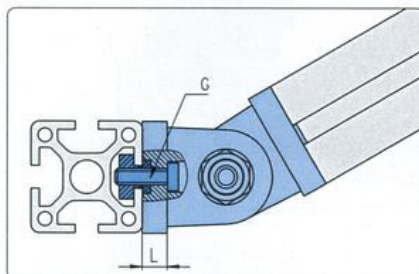
The joint can be locked with the adjustable clamping lever

Application

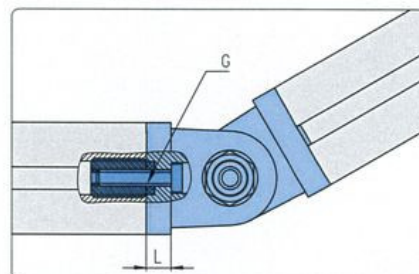
To enable infinitely variable adjusting and swivelling of profiles

Technical data

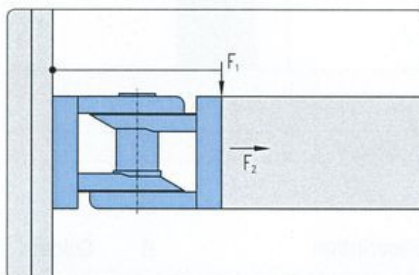
material: GD-Zn
surface: aluminium coloured powder-coated



Mounting on profile side



Mounting on profile end

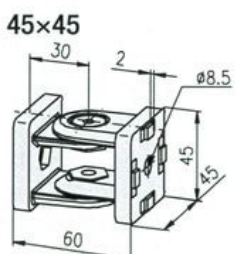
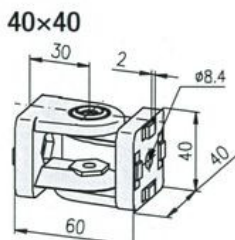
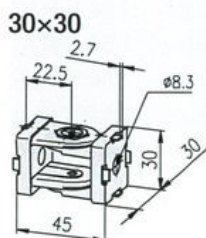


max. loads		
Joint	F1 _{max}	F2 _{max}
30×30	11.1 Nm	500 N
40×40	12.5 Nm	750 N
45×45	12.5 Nm	750 N

Comments

Mounting with:

- cap screw DIN 6912
- washer DIN 433



Description

Description	G	L	Weight	Article-No.
Joint Zn 30×30	M8	7.0	124 g	1.63.51030030
Joint Zn 30×30 with clamping lever	M8	7.0	147 g	1.63.52030030

Description

Description	G	L	Weight	Article-No.
Joint Zn 40×40	M8	9.0	300 g	1.63.51040040
Joint Zn 40×40 with clamping lever	M8	9.0	344 g	1.63.52040040

Description

Description	G	L	Weight	Article-No.
Joint Zn 45×45	M8	8.0	320 g	1.63.51045045
Joint Zn 45×45 with clamping lever	M8	8.0	366 g	1.63.52045045

Mounting blocks screw-type



Application

For mounting of panels

Technical data

Mounting block

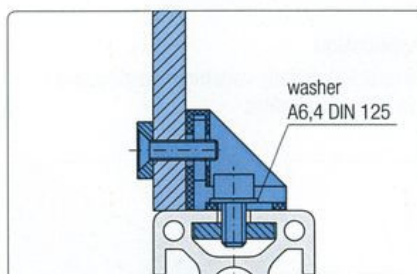
material: PA-GF

colours: grey, black

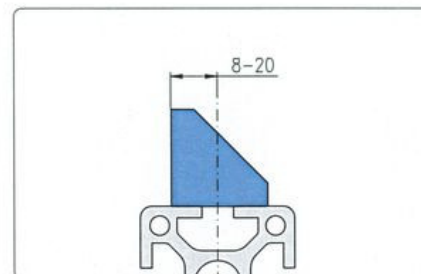
Threaded plate

material: steel

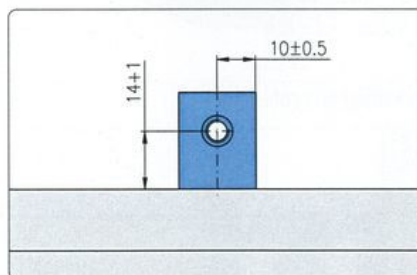
surface: galvanised



Mounting on the profile with threaded plate
or T-Nut

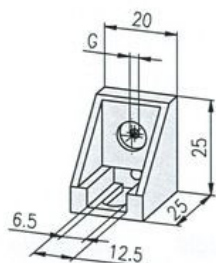


Adjustable position



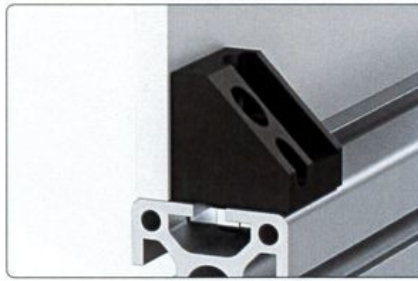
Comments

A 'floating' nut allows additional tolerance in
the panel mounting holes.



Description	G	Colour	Weight	Article-No.
Mounting block screw type	M3	grey	9 g	1.64.10M3.1
Mounting block screw type	M3	black	9 g	1.64.10M3.2
Mounting block screw type	M4	grey	9 g	1.64.10M4.1
Mounting block screw type	M4	black	9 g	1.64.10M4.2
Mounting block screw type	M5	grey	9 g	1.64.10M5.1
Mounting block screw type	M5	black	9 g	1.64.10M5.2
Mounting block screw type	M6	grey	9 g	1.64.10M6.1
Mounting block screw type	M6	black	9 g	1.64.10M6.2

Mounting block GD-Zn

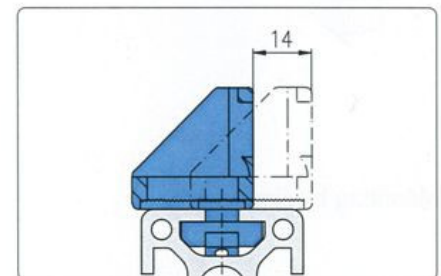
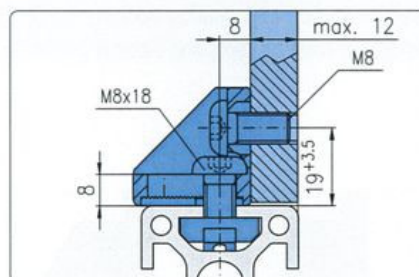
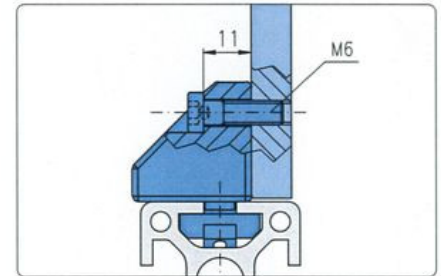
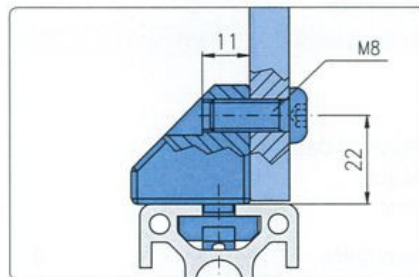
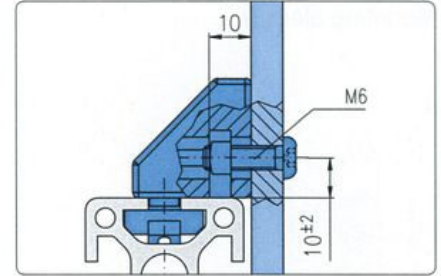
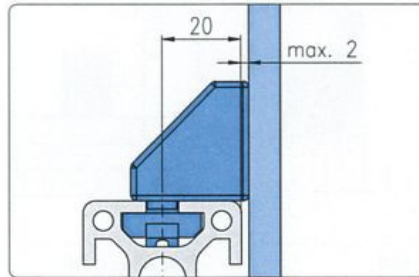


Application

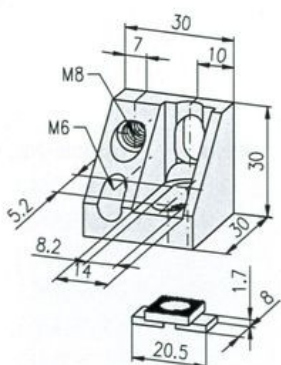
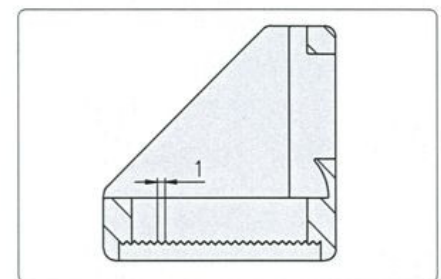
For mounting of panels

Technical data

material: GD-Zn



Anti-twistable mounting in steps of 1 mm



Description	G	Surface	Weight	Article-No.
Mounting block GD-Zn	M8	natural	68 g	1.64.153030.1
Mounting block GD-Zn	M8	black	68 g	1.64.153030.2

Mounting blocks for subsequent insertion

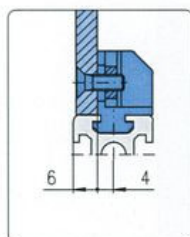
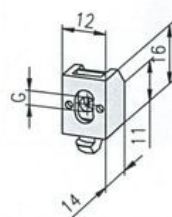


Application

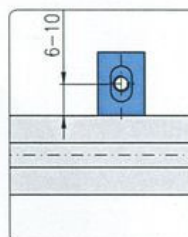
For the mounting of panels with subsequent insertion

Variable mounting position of panels with distancing plate

Mounting block H



H-slot



Tolerance equalisation: 4 mm

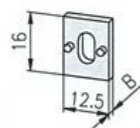
Technical data

material: PA-GF
colour: black
square nut: steel, galvanised
max. static load: 100 N, rectangular to slot

Description	G	Weight	Article-No.
Mounting block H	M4	2.6 g	1.64.2H2M4.2

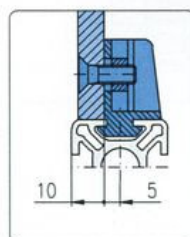
Technical data

material: PA-GF
colour: black

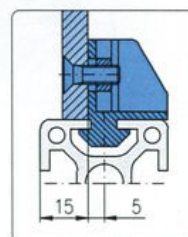


Description	B	Weight	Article-No.
Distancing plate for mounting block H	1	0.2 g	1.64.xH01
Distancing plate for mounting block H	2	0.4 g	1.64.xH02
Distancing plate for mounting block H	3	0.6 g	1.64.xH03
Distancing plate for mounting block H	4	0.8 g	1.64.xH04

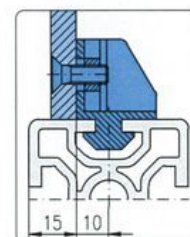
Mounting blocks F and E



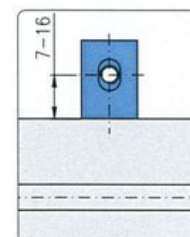
F-slot



E3-slot



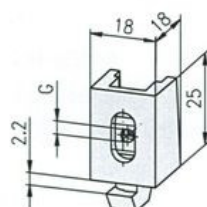
E4-slot



Tolerance equalisation: 9 mm

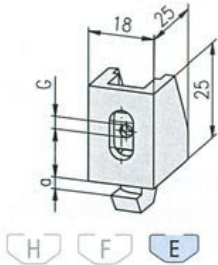
Technical data

material: PA-GF
colours: grey, black
square nut: steel, galvanised
max. static load: 250 N, rectangular to slot



Description	G	Colour	Weight	Article-No.
Mounting block F	M4	grey	9 g	1.64.2F2M4.1
Mounting block F	M4	black	9 g	1.64.2F2M4.2
Mounting block F	M5	grey	9 g	1.64.2F2M5.1
Mounting block F	M5	black	9 g	1.64.2F2M5.2
Mounting block F	M6	grey	9 g	1.64.2F2M6.1
Mounting block F	M6	black	9 g	1.64.2F2M6.2

Mounting blocks E

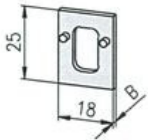


Description	G	Colour	a	Weight	Article-No.
Mounting block E3	M4	grey	3.0	10.5 g	1.64.2E3M4.1
Mounting block E3	M4	black	3.0	10.5 g	1.64.2E3M4.2
Mounting block E3	M5	grey	3.0	10.1 g	1.64.2E3M5.1
Mounting block E3	M5	black	3.0	10.1 g	1.64.2E3M5.2
Mounting block E3	M6	grey	3.0	9.6 g	1.64.2E3M6.1
Mounting block E3	M6	black	3.0	9.6 g	1.64.2E3M6.2
Mounting block E4	M4	grey	4.0	10.6 g	1.64.2E4M4.1
Mounting block E4	M4	black	4.0	10.6 g	1.64.2E4M4.2
Mounting block E4	M5	grey	4.0	10.2 g	1.64.2E4M5.1
Mounting block E4	M5	black	4.0	10.2 g	1.64.2E4M5.2
Mounting block E4	M6	grey	4.0	9.9 g	1.64.2E4M6.1
Mounting block E4	M6	black	4.0	9.9 g	1.64.2E4M6.2

Technical data

material: PA-GF

colours: grey, black



Description	B	Colour	Weight	Article-No.
Distancing plate for mounting block FE	2	grey	0.5 g	1.64.2x02.1
Distancing plate for mounting block FE	2	black	0.5 g	1.64.2x02.2
Distancing plate for mounting block FE	3	grey	0.8 g	1.64.2x03.1
Distancing plate for mounting block FE	3	black	0.8 g	1.64.2x03.2
Distancing plate for mounting block FE	5	grey	1.3 g	1.64.2x05.1
Distancing plate for mounting block FE	5	black	1.3 g	1.64.2x05.2

Mounting clamp blocks for subsequent insertion



Application

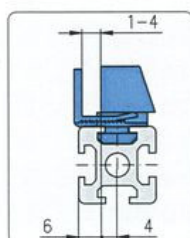
Mounting of panels with clamps, without drilling and screwing

For subsequent insertion:

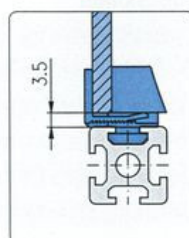
Variable mounting position of panels with distance plates



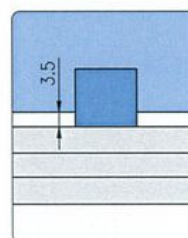
The distance plates are positioned and fastened by pins, it is possible to mount several distance plates in series



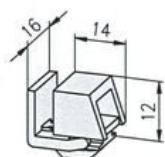
H-slot



Installation dimensions



Installation dimensions



Technical data

material: PA-GF

colour: black

max. static load:

• towards clamp block: 110 N

• towards slider: 30 N

Description

Mounting clamp block H

Weight

3.4 g

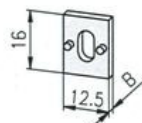
Article-No.

1.64.3H2

Technical data

material: PA-GF

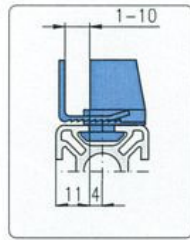
colour: black



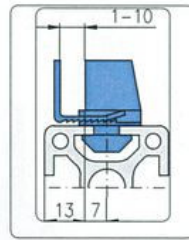
Description

Description	B	Weight	Article-No.
Distancing plate for mounting clamp block H	1	0.2 g	1.64.xH01
Distancing plate for mounting clamp block H	2	0.4 g	1.64.xH02
Distancing plate for mounting clamp block H	3	0.6 g	1.64.xH03
Distancing plate for mounting clamp block H	4	0.8 g	1.64.xH04

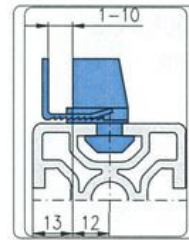
Mounting clamp blocks for subsequent insertion



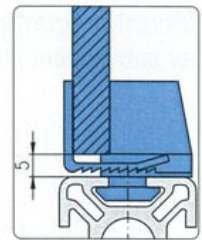
F-slot



E3-slot



E4-slot


Installation dimen-
sions

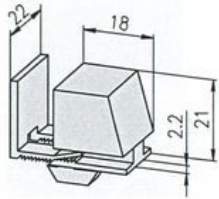
Technical data

material: PA-GF

colour: black

max. static load:

- towards clamp block: 250 N
- towards slider: 50 N



Description

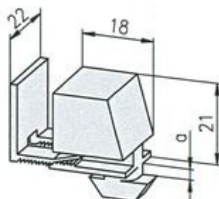
Mounting clamp block F

Weight

7.5 g

Article-No.

1.64.3F2



Description

Mounting clamp block E3

a

3.0

Weight

8.0 g

Article-No.

1.64.3E3

Technical data

material: PA-GF

colour: black



Description

Distancing plate for mounting clamp block FE

B

5

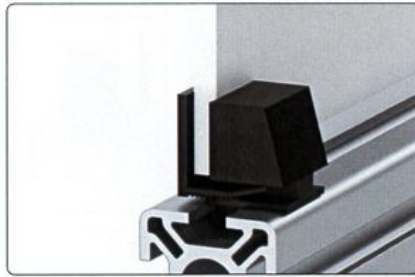
Weight

1.4 g

Article-No.

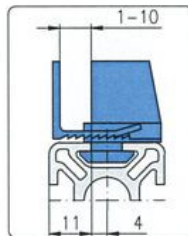
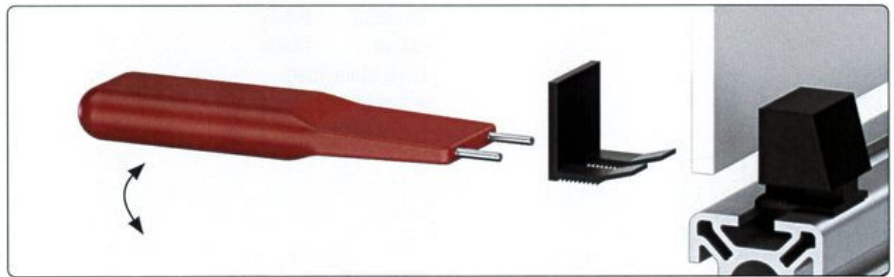
1.64.3x05

Mounting clamp blocks SL for subsequent insertion

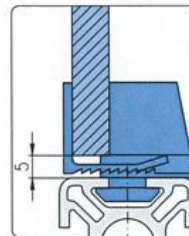


Application

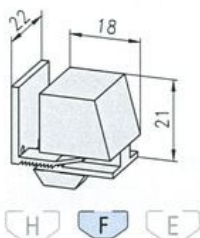
As mounting clamp block, however:
For safety's sake it is only possible to be opened with special tools



F-slot



Installation dimensions



Technical data

material: PA-GF
colour: black
max. static load:
• towards clamp block: 250 N
• towards slider: 50 N

Description

Mounting clamp block F, SL

Weight

7.5 g

Article-No.

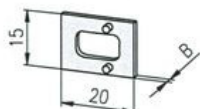
1.64.4F2

Technical data

material: PA-GF
colour: black

Description

Description	B	Weight	Article-No.
Distancing plate for mounting clamp block FE	2	0.6 g	1.64.3x02
Distancing plate for mounting clamp block FE	3	0.9 g	1.64.3x03
Distancing plate for mounting clamp block FE	5	1.4 g	1.64.3x05



Technical data

material: PA-GF
colour: red
steel bolt: hardened

Description

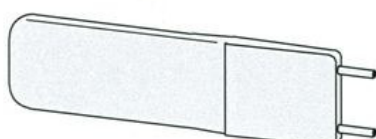
Tool for mounting clamp block SL

Weight

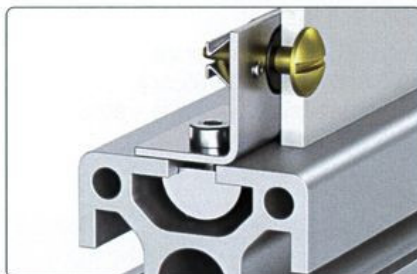
23 g

Article-No.

1.64.4W



Quick locks

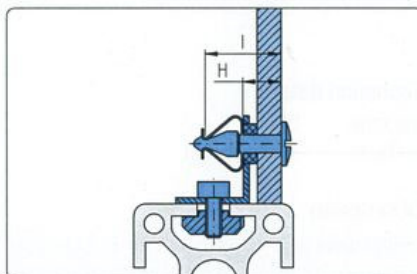


Application

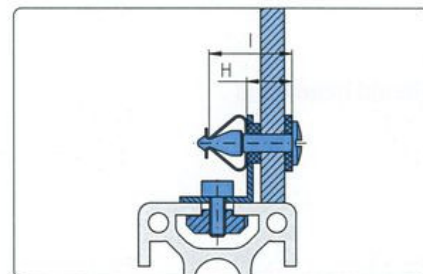
Mounting element for quick mounting and dismounting of covers

Comments

open: by 1/4-turn
close: by push in



Fastening without washer
 $H_{\max} = S_{\text{retaining ring}} + \text{panel thickness}$



Fastening with washer
 $H_{\max} = S_{\text{retaining ring}} + \text{panel thickness} + S_{\text{washer}}$

Technical data (assembly)

drilling diameter
in the covers: 7 mm
max. static load: 900 N
life time: ca. 10.000 operations

Mounting angle

Technical data

material: steel
surface: galvanised

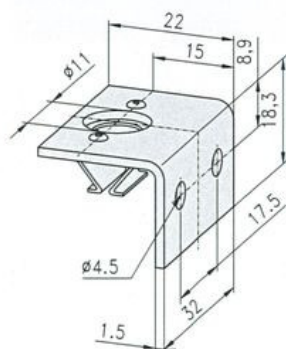
Mounting elements:

F-slot:

- T-Nut, with leaf spring F, 2xM4 1.32.4F2M4.25
- threaded plate F, M4 1.31.FM4
- spring nut F, M4 1.33.FM4
- T-slot nut F, M4 1.34.10FM4

E-slot:

- T-Nut, with leaf spring E, 2xM4 1.32.4E2M4.25
- spring nut E, M4 1.33.EM4
- T-slot nut E, M4 1.34.10EM4
- rhomboid T-slot nut E, M4 1.34.20EM4

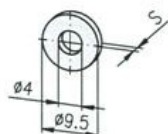


Description	Weight	Article-No.
Mounting angle	14,6 g	1.64.5101

Retaining rings

Technical data

material: neoprene
hardness: 55 Shore A
temperature range: - 50°C to + 90°C

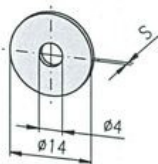


Description	S	Weight	Article-No.
Retaining ring	1.7	1.3 g	1.64.5217
Retaining ring	2.5	1.8 g	1.64.5225
Retaining ring	4.0	3.5 g	1.64.5240
Retaining ring	5.0	4.0 g	1.64.5250
Retaining ring	6.0	4.5 g	1.64.5260

Sealing washers

Technical data

material: neoprene
hardness: 55 Shore A
temperature range: - 50°C to + 90°C



Description	S	Weight	Article-No.
Sealing washer	0.5	0.8 g	1.64.5305
Sealing washer	1.0	1.7 g	1.64.5310
Sealing washer	1.5	2.5 g	1.64.5315
Sealing washer	2.0	3.3 g	1.64.5320

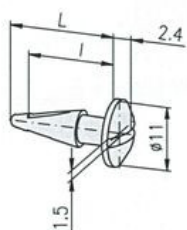
Round head bolts

Technical data

material: brass
surface: nickel-plated

Comments

Mounting dimension „H“ see mounting sketch



Description	H _{max}	L	I	Weight	Article-No.
Round head bolt	3.7	16.6	14.4	4.0 g	1.64.5416
Round head bolt	4.7	17.6	15.4	4.0 g	1.64.5417
Round head bolt	6.9	19.8	17.6	4.5 g	1.64.5419
Round head bolt	7.7	20.6	18.4	5.0 g	1.64.5420
Round head bolt	9.7	22.6	20.4	6.0 g	1.64.5422
Round head bolt	10.7	23.6	21.4	6.0 g	1.64.5423

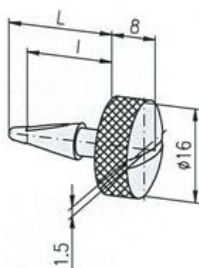
Knurled head bolts

Technical data

material: brass
surface: nickel-plated

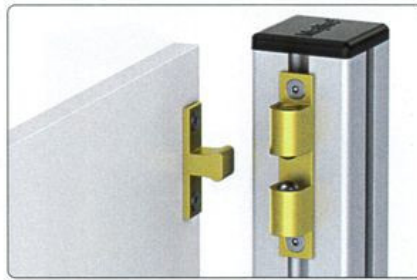
Comments

Mounting dimension „H“ see mounting sketch



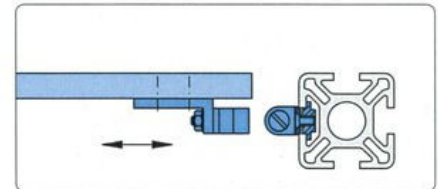
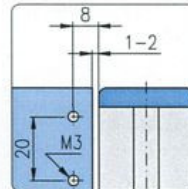
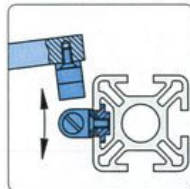
Description	H _{max}	L	I	Weight	Article-No.
Knurled head bolt	4.7	17.6	15.4	14.0 g	1.64.5517
Knurled head bolt	5.7	18.6	16.4	14.0 g	1.64.5518
Knurled head bolt	7.7	20.6	18.4	15.0 g	1.64.5520
Knurled head bolt	8.9	21.8	19.6	15.0 g	1.64.5521

Bullet catches



Application

Lock for swinging and sliding doors

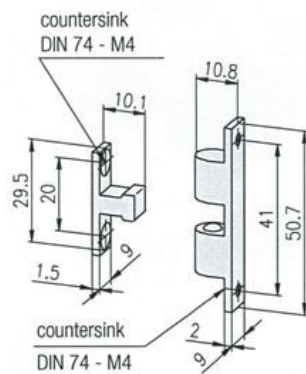


Technical data

material: brass, natural
bullet: stainless steel
retention force: adjustable

Comments

Countersink DIN 74 - M4
screw DIN 7991 - M4



Description

Bullet catch 9×50

Weight

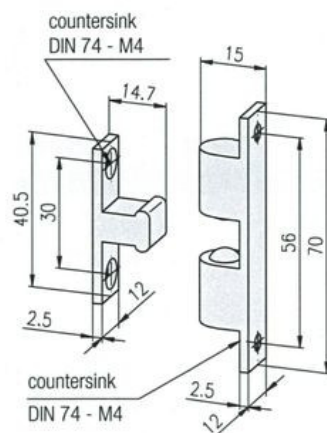
25.0 g

Article-No.

1.65.1101

Comments

Countersink DIN 74 - M4 for countersunk
screw DIN 7991 - M4



Description

Bullet catch 12×70

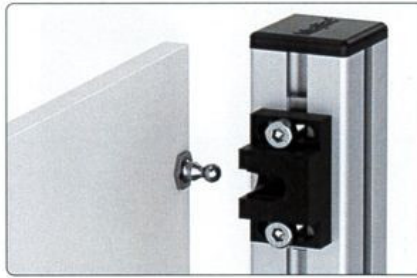
Weight

72.0 g

Article-No.

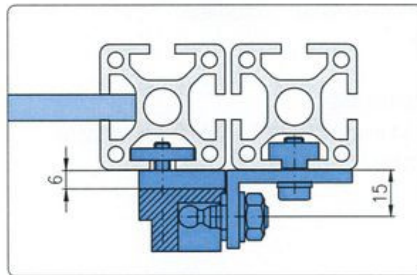
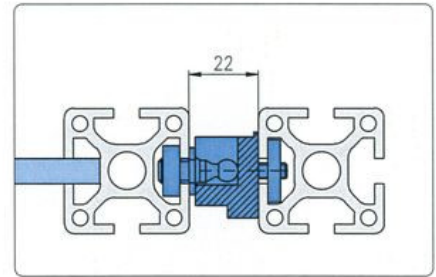
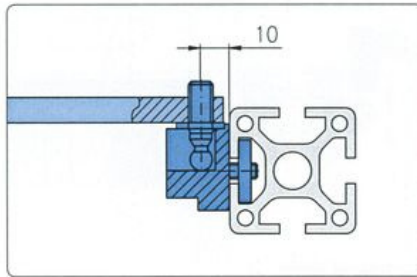
1.65.1102

Bullet catch PA

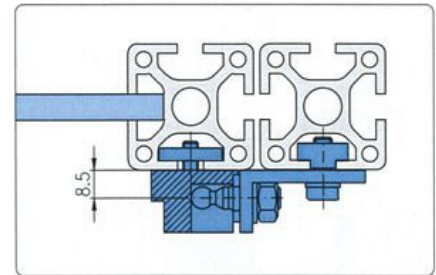


Application

Lock for swinging and sliding doors

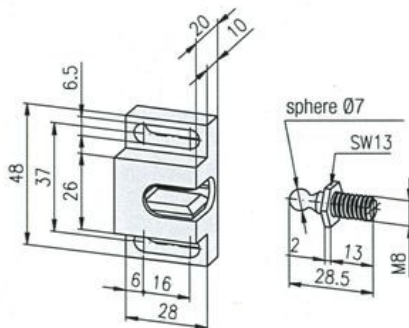


Fastening of the bolt with
angle 25×40, Ø8.7 ➔ 1.46.115



Fastening of the bolt with
angle 20×47, M8 ➔ 1.65.1301

Bullet catch PA



Technical data

capsule: PA-GF, black
bolt: steel, galvanised
retention force: 45 N

Description

Bullet catch PA

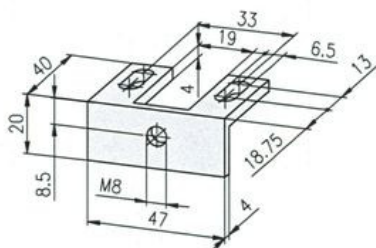
Weight

23.0 g

Article-No.

1.65.1201

Angle



Technical data

material: aluminium
strength: F22
surface: natural anodised

Description

Angle 20×47, M8

Weight

16.0 g

Article-No.

1.65.1301

Magnetic lock PA

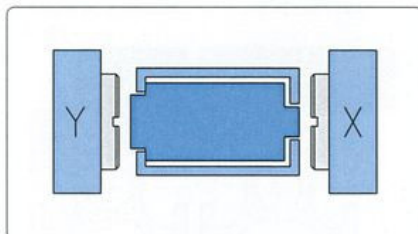


Application

Lock for swinging and sliding doors

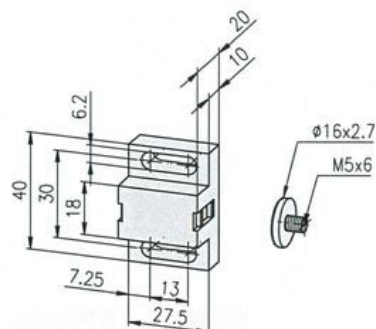
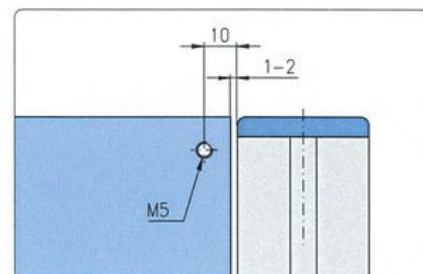
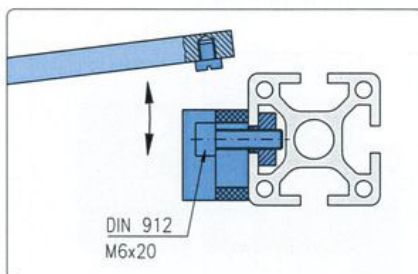
Technical data

capsule: PA-GF, black
flat head screw: steel, galvanised
retention force: y = 40 N
x = 25 N



Comments

Different force
y = large force
x = small force



Description

Magnetic lock PA

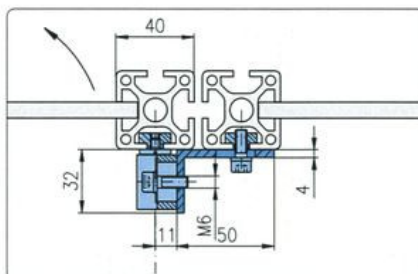
Weight

38.0 g

Article-No.

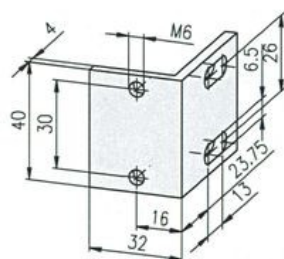
1.65.2101

Angle bracket for magnetic lock PA



Technical data

material: aluminium
strength: F22
surface: natural anodised



Description

Angle bracket for magnetic lock PA

Weight

32.0 g

Article-No.

1.65.2301

Lock GD-Zn

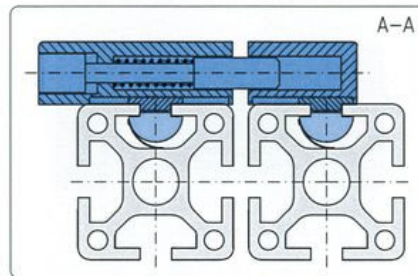


Application

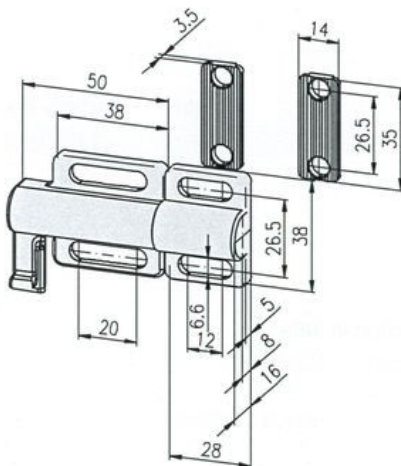
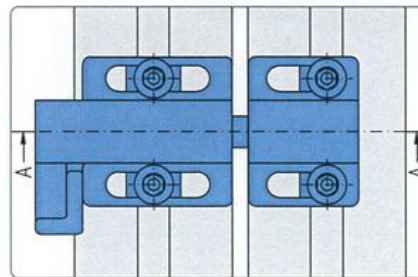
Lock with sprung bolt for easy closing of doors and panels, including separate slot fastening capability

Technical data

capsule: GD Zn, painted silver
handle: PA, black
bolt: stainless steel



Slot fastening capability



Description

Lock GD-Zn

Weight

120.0 g

Article-No.

1.65.2538078

Cylinder locks



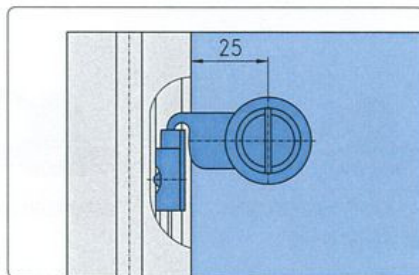
Application

Locking system for swinging and sliding doors

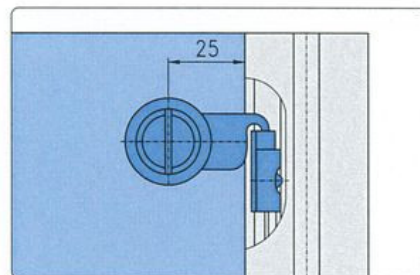
Technical data

capsule: GD Zn, galvanised
tongue, nut, screw: steel, galvanised

Mounting position

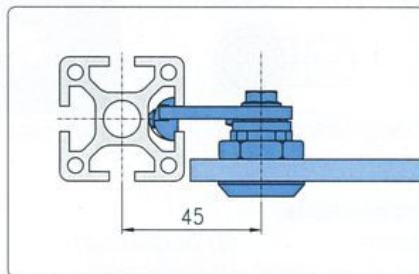


Left,
with tongue left, latch left

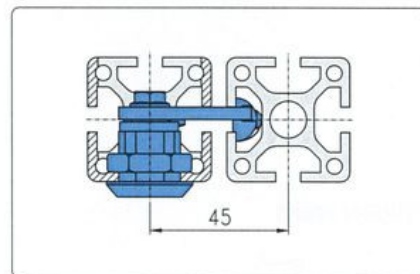


Right,
with tongue right, latch right

Mounting variants

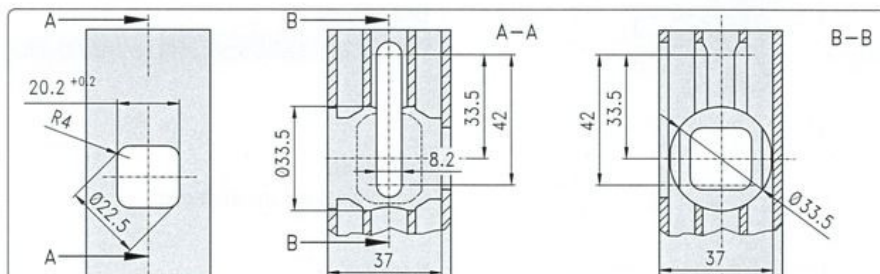
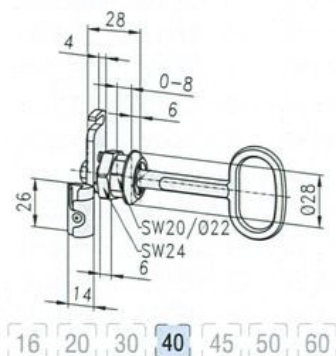
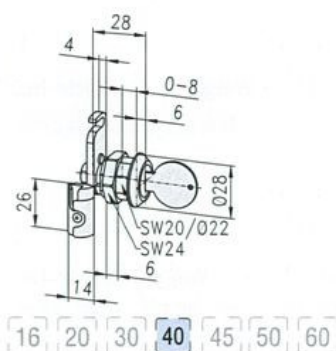


Swinging door without profile frame
mounting position left



Swinging door with profile frame made of
profile 40x40, mounting position right

Installation dimensions



Description

Cylinder lock with 2 keys, left
Cylinder lock with 2 keys, right

Weight

82.0 g
82.0 g

Article-No.

1.65.3101.L
1.65.3101.R

Comments

Key with double beard Ø8 mm

Description

Cylinder lock with double beard insert, left
Cylinder lock with double beard insert, right

Weight

100.0 g
100.0 g

Article-No.

1.65.3102.L
1.65.3102.R

Cylinder locks with security latch



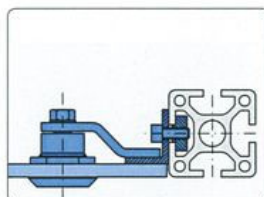
Application

Lock for swinging door

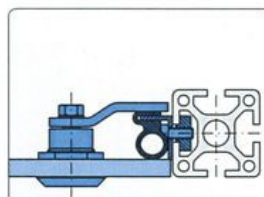
Comments

Security latch

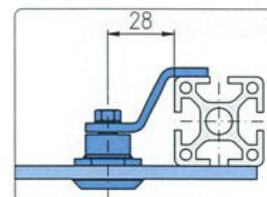
Jolting- and vibrationless by integral lock



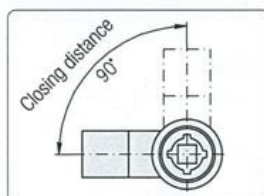
Installation variant with mounting angle



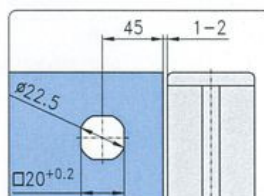
Installation variant with seal



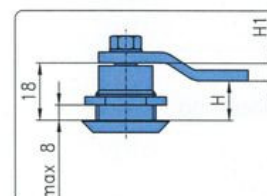
Installation variant



Closing distance

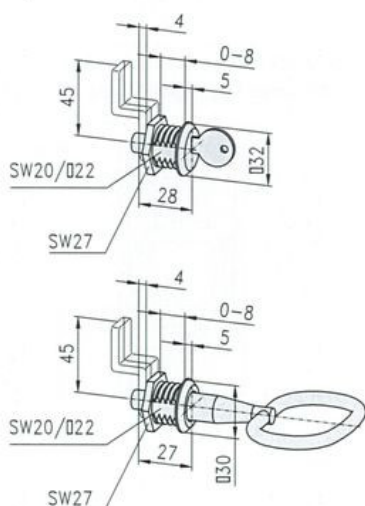


Drilling pattern



Security latch dimension
H1 = 18 - H

Cylinder locks



Technical data

capsule: GD Zn, galvanised
tongue, nut, screw: steel, galvanised

Description

Cylinder lock with 2 keys, without security latch

Weight

66 g

Article-No.

1.65.3201

Comments

Socket wrench / square 8 mm

Description

Cylinder lock with 1 square key, without security latch

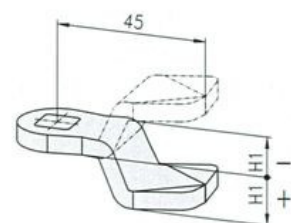
Weight

100 g

Article-No.

1.65.3202

Security latches



Description	H1	Weight	Article-No.
Security latch 45	14	29.5 g	1.65.3204
Security latch 45	12	28.5 g	1.65.3206
Security latch 45	10	27.5 g	1.65.3208
Security latch 45	8	27.3 g	1.65.3210
Security latch 45	5	26.5 g	1.65.3213
Security latch 45	4	26.0 g	1.65.3214
Security latch 45	2	27.0 g	1.65.3216
Security latch 45	0	26.5 g	1.65.3218
Security latch 45	-2	26.5 g	1.65.3220
Security latch 45	-4	26.0 g	1.65.3222
Security latch 45	-6	26.5 g	1.65.3224
Security latch 45	-7	27.5 g	1.65.3225
Security latch 45	-8	28.0 g	1.65.3226

Description	H1	Weight	Article-No.
Security latch 45	-10	26.5 g	1.65.3228
Security latch 45	-12	27.5 g	1.65.3230
Security latch 45	-14	28.5 g	1.65.3232
Security latch 45	-16	32.0 g	1.65.3234
Security latch 45	-17	34.5 g	1.65.3235
Security latch 45	-18	33.5 g	1.65.3236
Security latch 45	-20	35.0 g	1.65.3238
Security latch 45	-22	35.5 g	1.65.3240
Security latch 45	-24	36.0 g	1.65.3242
Security latch 45	-26	37.5 g	1.65.3244
Security latch 45	-27	36.0 g	1.65.3245
Security latch 45	-29	38.0 g	1.65.3247
Security latch 45	-32	39.0 g	1.65.3250

Flap-lock countersunk for sliding door

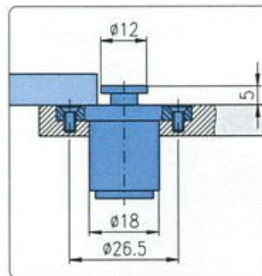
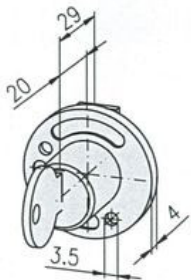


Application

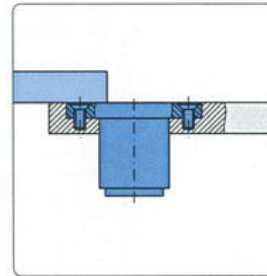
Lock for sliding door

Technical data

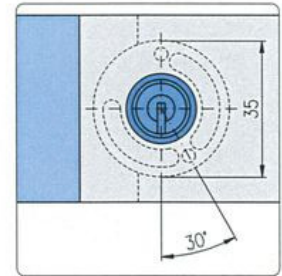
capsule: GD Zn, chrome-plated
tongue and nut: steel, galvanised



Locked



Open



Description

Flap-lock countersunk, for sliding door

Weight

52 g

Article-No.

1.65.3301

Cylinder locks flush



Application

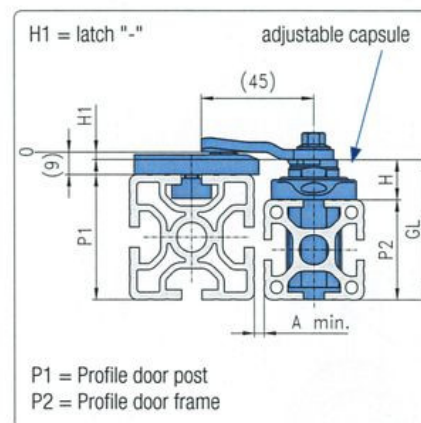
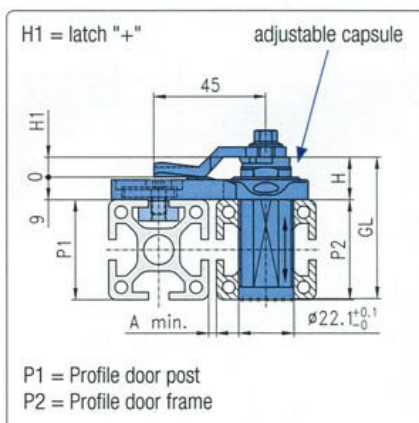
Locking system for swinging doors

Technical data

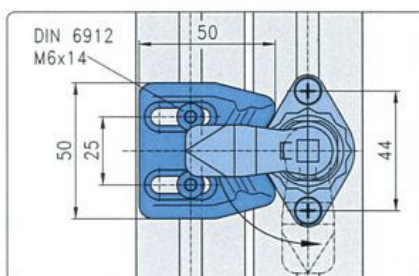
locking: 90°

material:

- capsule: GD Zn, chrome-plated
- fixing plate: GD Zn, black powder-coated



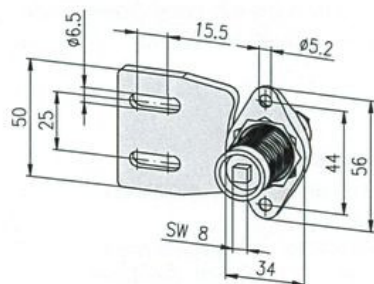
Outside: flush
(without jutout of lock parts)



Inside: with fixing plate

Profile			Capsule lock		Latch
Door post	Door frame	A min.	GL	H	H1
40	40	1.6	56	17	8
45	40	1.6	56	16	2
50	40	1.6	56	17	-2
60	40	1.6	56	16	-12

Cylinder locks flush



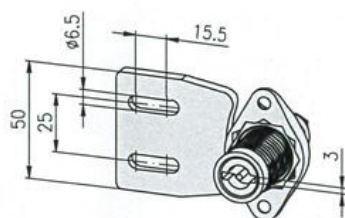
Delivery unit

- cylinder lock with fixing plate

Separate order

- key
- security latch

Description	GL	Weight	Article-No.
Cylinder lock flush, square	56	194.0 g	1.65.34156



Delivery unit

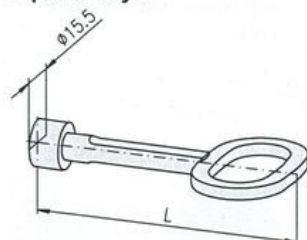
- cylinder lock with fixing plate

Separate order

- key
- security latch

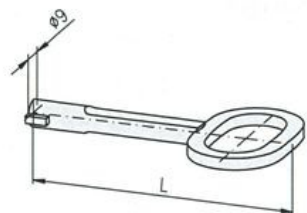
Description	GL	Weight	Article-No.
Cylinder lock flush, double beard	56	193.8 g	1.65.34356

Square keys



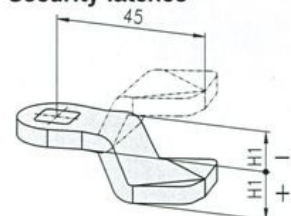
Description	L	Material	Weight	Article-No.
Square key 8, 40 mm		PA-GF	7.5 g	1.65.34540
Square key 8, 81 mm		GD Zn	41.6 g	1.65.34581

Double beard keys

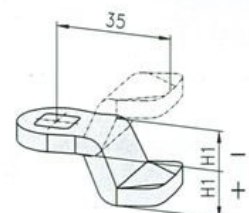


Description	L	Material	Weight	Article-No.
Double beard key 3, 40 mm		PA-GF	6.4 g	1.65.34740
Double beard key 3, 89 mm		GD Zn	35.8 g	1.65.34789

Security latches



Description	H1	Weight	Article-No.
Security latch 45	12	30.3 g	1.65.3206
Security latch 45	8	27.3 g	1.65.3210
Security latch 45	2	26.8 g	1.65.3216
Security latch 45	-2	27.4 g	1.65.3220
Security latch 45	-8	27.3 g	1.65.3226
Security latch 45	-12	30.3 g	1.65.3230



Description	H1	Weight	Article-No.
Security latch 35	2	20.4 g	1.65.3493502.1
Security latch 35	-2	20.1 g	1.65.3493502.2
Security latch 35	-8	22.5 g	1.65.3493508.2
Security latch 35	12	22.9 g	1.65.3493512.1
Security latch 35	-12	22.9 g	1.65.3493512.2

Mortise deadlocks



Application

Door locks for doors with profile frames made from profiles 40×40 and 45×45

Technical data

mortise deadlock: steel, galvanised
screws and threaded plates: steel, galvanised
lock insert: GD-Zn, galvanised
rosette: LM, natural anodised
case: Al Mg Si 0.5 F25, natural anodised



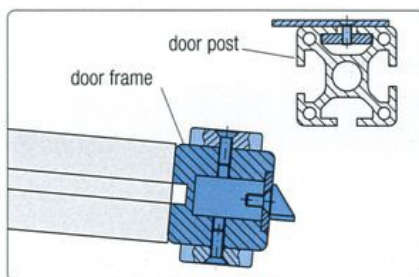
Door lock without lock insert and handles both sides



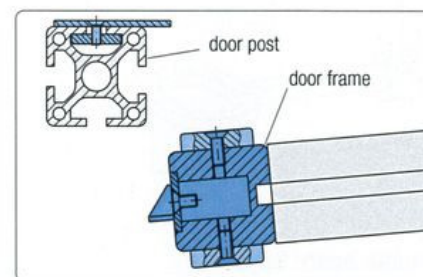
Door lock with cylinder lock and handles both sides



Door lock with lock insert, one handle and one fixed knob

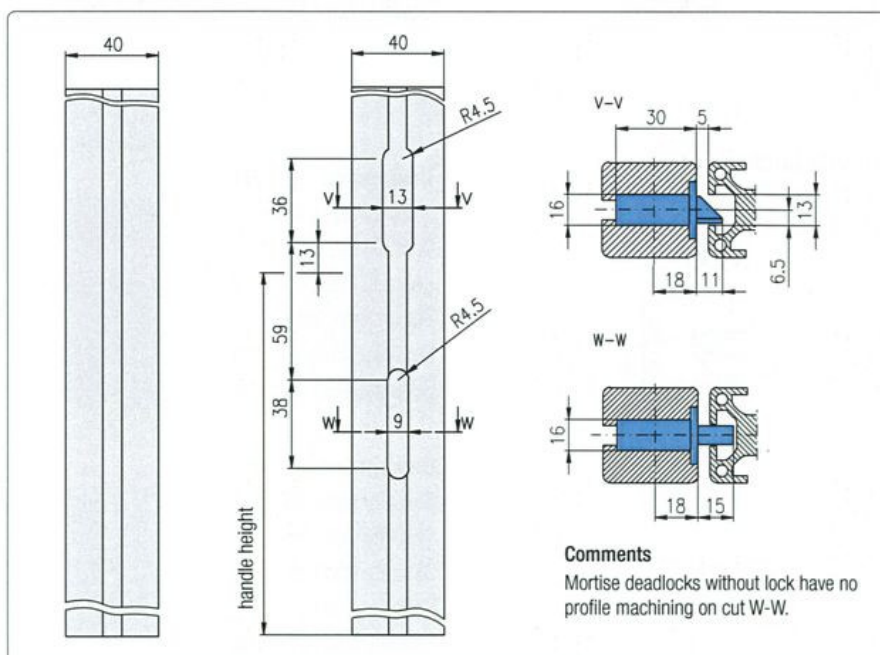


Mounting position left



Mounting position right

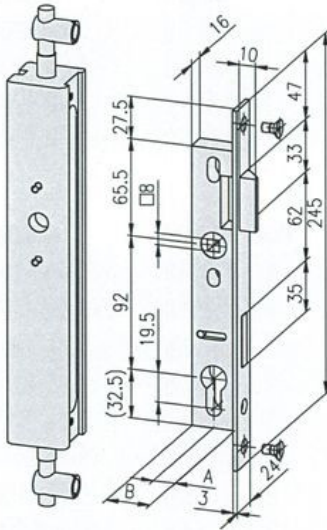
Profile machining for door post



Comments

Mortise deadlocks without lock have no profile machining on cut W-W.

Mortise deadlock installation sets without lock



Comments

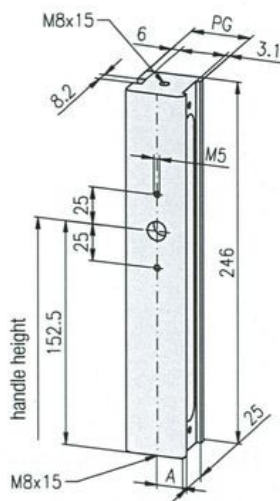
Drawing shows mounting position left,
mirror image mounting position right

Description	Weight	Article-No.
Mortise deadlock installation set without lock, left, PG 40	1,191 g	1.65.4001L40
Mortise deadlock installation set without lock, right, PG 40	1,191 g	1.65.4001R40
Mortise deadlock installation set without lock, left, PG 45	1,352 g	1.65.4001L45
Mortise deadlock installation set without lock, right, PG 45	1,352 g	1.65.4001R45

Single parts

Description	Pcs.	Weight	Article-No.
Mortise deadlock case without lock PG 40	1	665 g	1.65.4101x40
Mortise deadlock case without lock PG 45	1	790 g	1.65.4101x45
Mortise deadlock left, PG 40	1	412 g	1.65.4211L40
Mortise deadlock right, PG 40	1	412 g	1.65.4211R40
Mortise deadlock left, PG 45	1	430 g	1.65.4211L45
Mortise deadlock right, PG 45	1	430 g	1.65.4211R45
Screw connector PG 40	2	55 g	1.21.4S1M8-11
Screw connector PG 45	2	64 g	1.21.45S1M8-11
Countersunk screw DIN 7991 - M5×12	2	2 g	0.63.D07991.05012

Mortise deadlock cases without lock



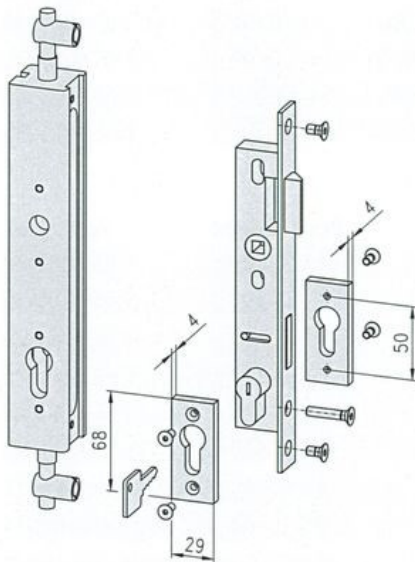
16 20 30 40 45 50 60

Description	A	B	Weight	Article-No.
Mortise deadlock case without lock				
mounting position le/ri, PG 40	18	30	665 g	1.65.4101x40
mounting position le/ri, PG 45	20	32	790 g	1.65.4101x45

Mortise deadlock installation sets with lock

Comments

Drawing shows mounting position left,
mirror image mounting position right



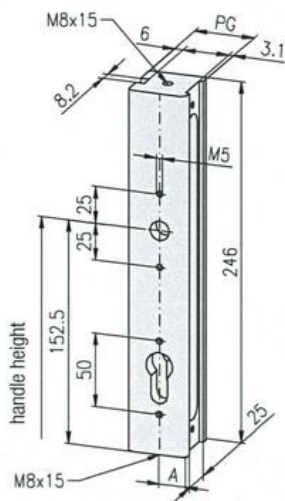
Dimensions ➔ 6.45, drawing „Mortise
deadlock installation sets
without lock“

Description	Weight	Article-No.
Mortise deadlock installation set with lock, left, PG 40	1,371 g	1.65.4002L40
Mortise deadlock installation set with lock, right, PG 40	1,371 g	1.65.4002R40
Mortise deadlock installation set with lock, left, PG 45	1,535 g	1.65.4002L45
Mortise deadlock installation set with lock, right, PG 45	1,535 g	1.65.4002R45

Single parts

Description	Pcs.	Weight	Article-No.
Mortise deadlock case with lock PG 40	1	620 g	1.65.4102x40
Mortise deadlock case with lock PG 45	1	740 g	1.65.4102x45
Mortise deadlock left, PG 40	1	412 g	1.65.4211L40
Mortise deadlock right, PG 40	1	412 g	1.65.4211R40
Mortise deadlock left, PG 45	1	430 g	1.65.4211L45
Mortise deadlock right, PG 45	1	430 g	1.65.4211R45
Screw connector PG 40	2	55 g	1.21.4S1M8-11
Screw connector PG 45	2	64 g	1.21.4S1M8-11
Lock insert with 2 keys, PG 40	1	188 g	1.65.421240
Lock insert with 2 keys, PG 45	1	196 g	1.65.421245
Countersunk screw DIN 7991 - M5×12	2	2 g	0.63.D07991.05012
Countersunk screw DIN 7991 - M5×30	1	4 g	0.63.D07991.05030
Rosette, set	1	25 g	1.65.4213
Countersunk screw DIN 7991 - M5×12	4	2 g	0.63.D07991.05012

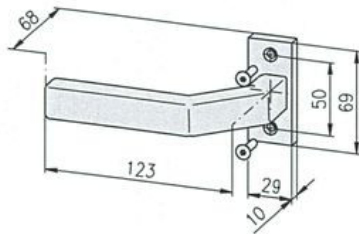
Mortise deadlock cases with lock



16 20 30 40 45 50 60

Description	A	B	Weight	Article-No.
Mortise deadlock case with lock				
mounting position L/R, PG 40	18	30	620 g	1.65.4102x40
mounting position L/R, PG 45	20	32	740 g	1.65.4102x45

Door handle



Technical data

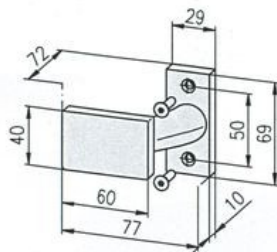
material: LM
surface: natural anodised

Description	Weight	Article-No.
Door handle set	166 g	1.65.4220

Single parts

Description	Pcs.	Weight	Article-No.
Handle with rosette	1	160 g	1.65.4221
Countersunk screw DIN 7991 - M5×20	2	3 g	0.63.D07991.05020

Door knob



Technical data

material: LM
surface: natural anodised

Comments

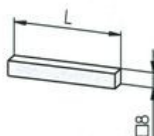
Door knob fixed

Description	Weight	Article-No.
Door knob set	178 g	1.65.4230

Single parts

Description	Pcs.	Weight	Article-No.
Door knob with rosette	1	172 g	1.65.4231
Countersunk screw DIN 7991 - M5×20	2	3 g	0.63.D07991.05020

Push pins



Technical data

material: steel
surface: galvanised

Comments

Stop pin for 1 door handle variant only

Description	L	Weight	Article-No.
Push pin for 1 door handle, PG 40	56	28 g	1.65.425140
Push pin for 1 door handle, PG 45	58.5	29 g	1.65.425145

Description	L	Weight	Article-No.
Push pin for 2 door handles, PG 40	94	54 g	1.65.425240
Push pin for 2 door handles, PG 45	99	57 g	1.65.425245

Bar locks



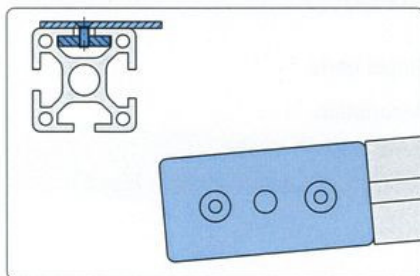
Bar lock with olive



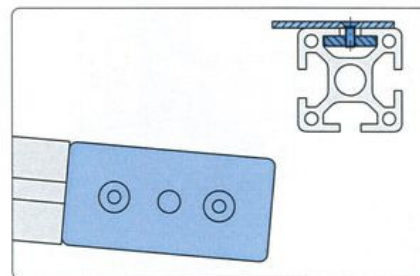
Bar lock with socket wrench

Application

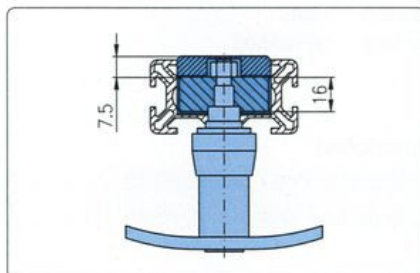
Lock for large doors made of profile 30×60 or 40×80, with pin arrest on top and bottom side



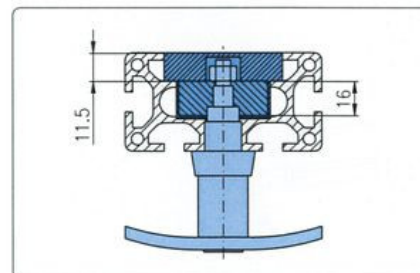
Mounting position right



Mounting position left

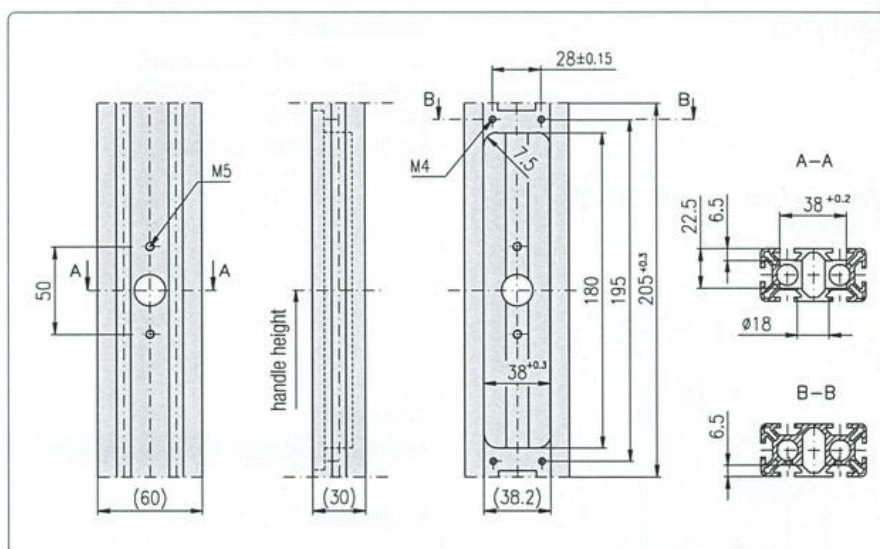
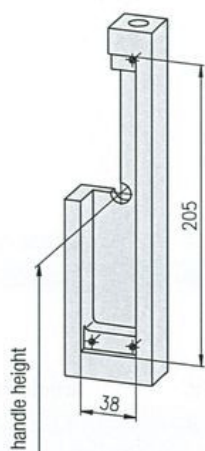


Mounting in profile 30×60



Mounting in profile 40×80

Profile machining 30×60 for bar lock



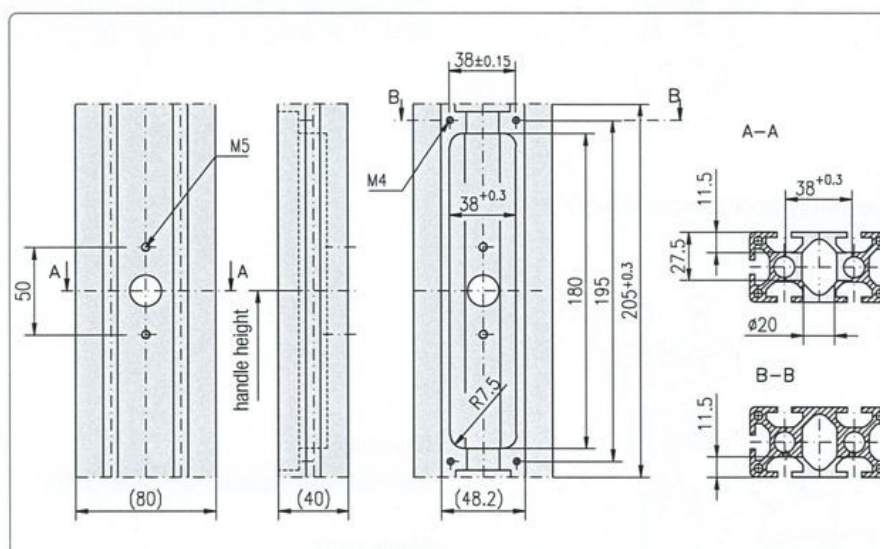
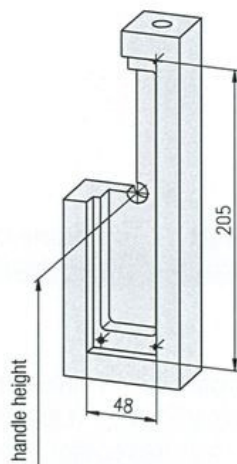
Description

Profile machining 30×60 for bar lock

Article-No.

1.65.5110

Profile machining 40×80 for bar lock



Description

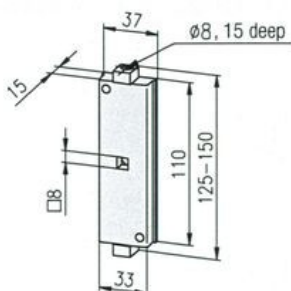
Profile machining 40×80 for bar lock

Article-No.

1.65.5120

6

Bar locks



Technical data

material: steel
surface: galvanised

Description

Bar lock, left side

Bar lock, right side

Weight

230 g

230 g

Article-No.

1.65.5210L

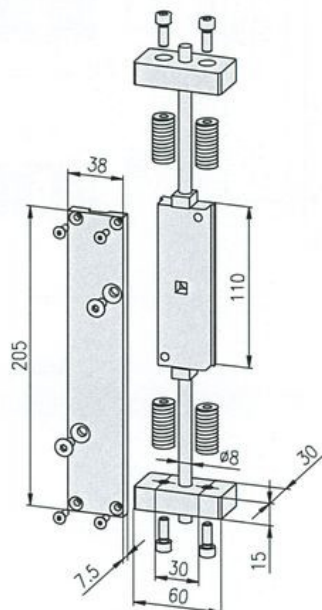
1.65.5210R

Bar locks

Technical data

cover plate: alu, natural anodised
face plate: alu, natural anodised
bar: steel, galvanised
screws: steel, galvanised

Assembly accessories 30×60 for bar lock

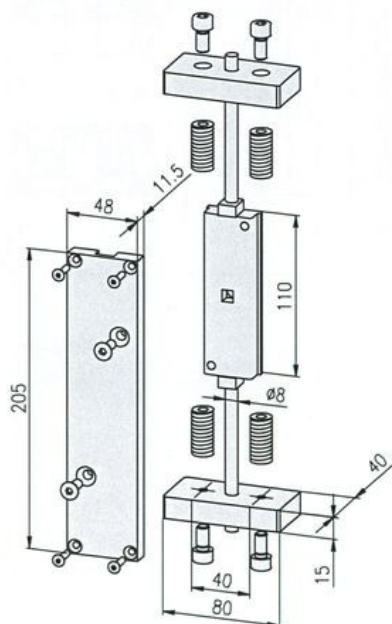


Description	Weight	Article-No.
Assembly accessories 30×60 for bar lock	590 g	1.65.5310

Single parts

Description	Pcs.	Weight	Article-No.
Cover plate 30×60	1	100 g	1.65.5311
Countersunk screw DIN 7991 - M4×12	4	1 g	0.63.D07991.04012
Countersunk screw DIN 7991 - M6×12	2	3 g	0.63.D07991.06012
Front plate 30×60	2	50 g	1.65.5312
Threaded insert M14/M6	4	22 g	1.35.1140615
Cap-screw DIN 912 - M6×16	4	5 g	0.63.D00912.06016
Bar, L1000	2	136 g	1.65.5313

Assembly accessories 40×80 for bar lock



Description	Weight	Article-No.
Assembly accessories 40×80 for bar lock	800 g	1.65.5320

Single parts

Description	Pcs.	Weight	Article-No.
Cover plate 40×80	1	225 g	1.65.5321
Countersunk screw DIN 7991 - M4×16	4	2 g	0.63.D07991.04016
Countersunk screw DIN 7991 - M6×16	2	4 g	0.63.D07991.06016
Front plate 40×80	2	90 g	1.65.5322
Threaded insert M14/M8	4	18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	4	9 g	0.63.D00912.08016
Bar, L1000	2	136 g	1.65.5313

Olive installation set
for bar lock

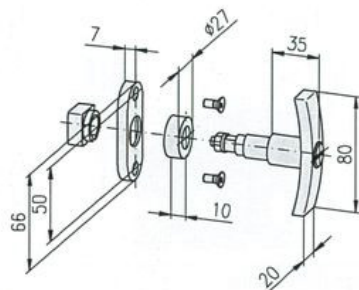
Technical data

material: GD-Zn, chrome-plated

Comments

Execution for profile 30×60 = with rosette

Execution for profile 40×80 = without rosette



Description	Weight	Article-No.
Olive installation set for bar lock without lock,		
for profile 30×60	166 g	1.65.5410
for profile 40×80	160 g	1.65.5420
Olive installation set for bar lock with lock,		
for profile 30×60	175 g	1.65.5510
for profile 40×80	169 g	1.65.5520

Single parts

Description	Pcs.	Weight	Article-No.
Olive without lock	1	122 g	1.65.5431
Olive with lock, incl. 2 keys	1	120 g	1.65.5531
Rosette	1	8 g	1.65.5432
Countersunk screw DIN 7991 - M5×12	2	2 g	0.63.D07991.05012

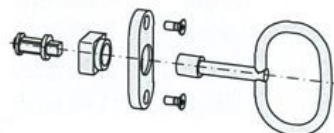
Lock mounting set
Technical data

lock insert: GD-Zn, galvanised

key: GD-Zn, galvanised

rosette: LM, natural anodised

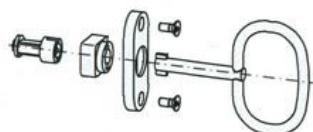
key catch: PVC, grey

with square key
for bar lock


Description	Weight	Article-No.
Lock mounting set with square key		
for bar lock	73 g	1.65.5600

Single parts

Description	Pcs.	Weight	Article-No.
Lock insert	1	16 g	1.65.5601
Key catch	1	3 g	1.65.5602
Rosette	1	8 g	1.65.5432
Square key 8 mm	1	42 g	1.65.34581
Countersunk screw DIN 7991 - M5×12	2	2 g	0.63.D07991.05012

with double beard key
for bar lock


Description	Weight	Article-No.
Lock mounting set with double beard key		
for bar lock	73 g	1.65.5700

Single parts

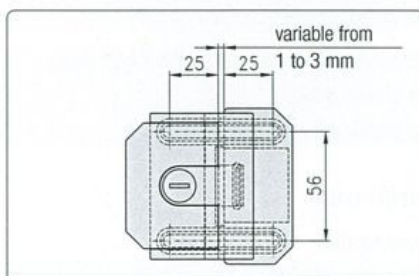
Description	Pcs.	Weight	Article-No.
Lock insert	1	16 g	1.65.5701
Key catch	1	3 g	1.65.5702
Rosette	1	8 g	1.65.5432
Double beard key Ø3	1	42 g	1.65.34789
Countersunk screw DIN 7991 - M5×12	2	2 g	0.63.D07991.05012

Latch locks

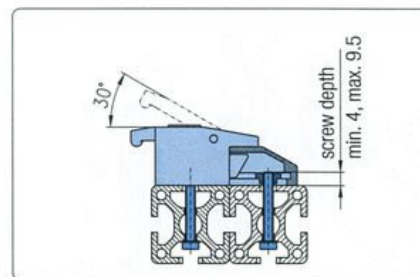


Application

Door lock with small jutout



Installation dimensions



Installation dimensions

Technical data

material:

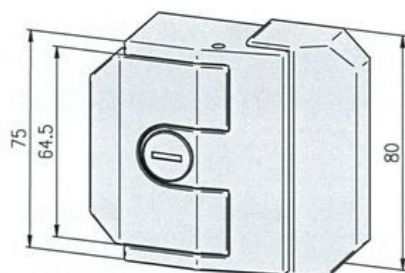
- capsule: GDZn black coated
- trap: GDZn rough
- nut: steel galvanised

Mounting elements

- cap-screw DIN 6912, M6
- washer DIN 433-6.4

Delivery unit

- latch lock
- 4 nuts M6
- 2 keys (by variant with lock)
- cover plug (by variant without lock)



Description

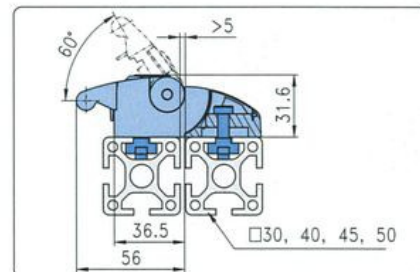
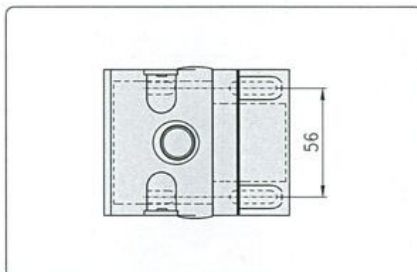
Description	Weight	Article-No.
Latch lock without lock	560 g	1.65.6010
Latch lock with lock, all keyed alike	560 g	1.65.6020
Latch lock with lock, keyed different	560 g	1.65.6030

Latch locks for sliding door



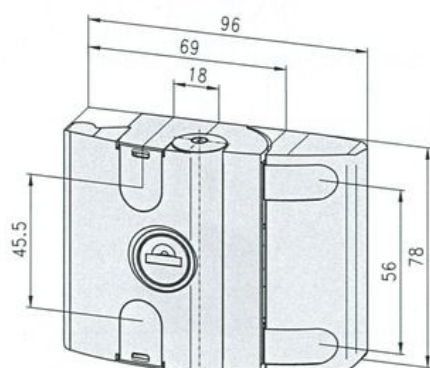
Application

For easy and secure closing of doors and flaps.
Mounting without mechanical processing.
Secured against disassembly when closed.



Technical data

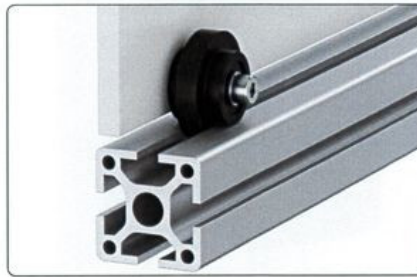
material: Aluminum die casting
colour: black, powder coated



Description

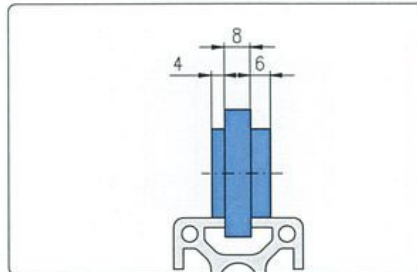
Description	Weight	Article-No.
Latch lock for sliding door, without lock	266 g	1.65.7010
Latch lock for sliding door, with lock, all keyed alike	246 g	1.65.7020
Latch lock for sliding door, with lock, keyed different	246 g	1.65.7030

Roller 39

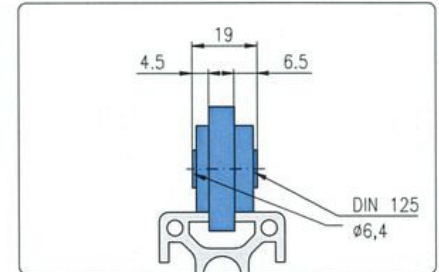


Application

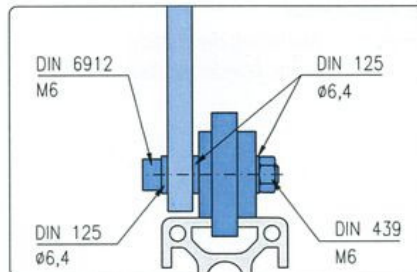
Roller for guiding in the 8 mm profile slot for sliding doors



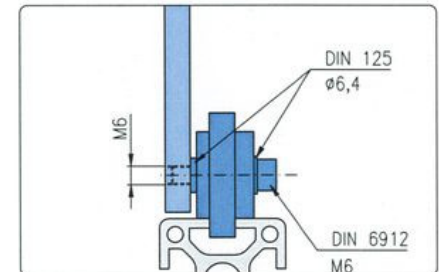
Asymmetric mount



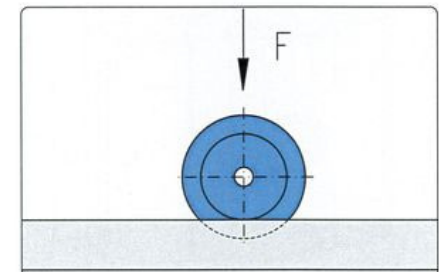
Mounting measure incl. washer DIN 125



Mounting with threaded pillar



Mounting with thread in panel element

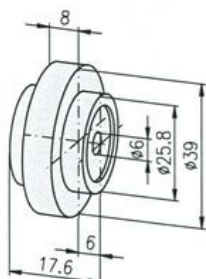


Technical data

material: PA-GF
colour: black
max. static load: $F = 150 \text{ N}$

Comments

2 deep grooved ball bearings with 2 cover discs



Description

Roller 39

Weight

32 g

Article-No.

1.66.1395

Roller fastening sets type A



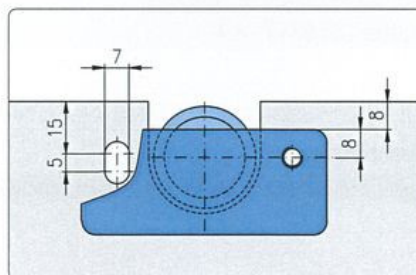
Roller fastening set type A, one-sided



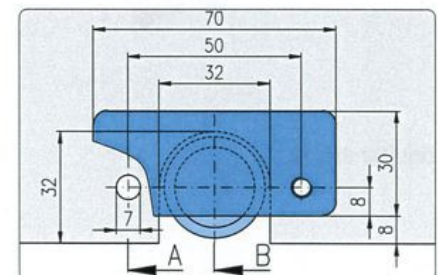
Roller fastening set type A, double-sided

Application

The roller fastening set allows the mounting of the roller into the panel element. Thus the panel element fits in the slot and fills the frame completely



Mounting on top side

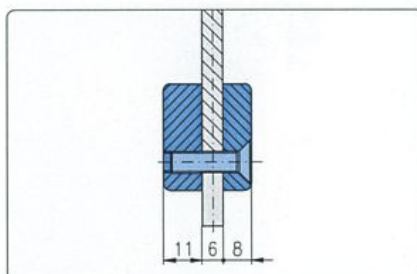


Mounting on bottom side

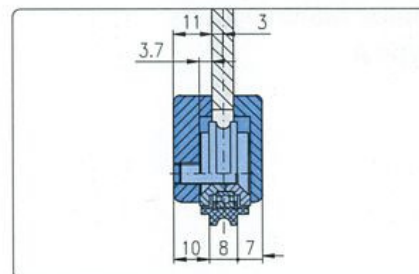
Comments

The elongated hole in the panel element allows the adjustment of the height tolerance

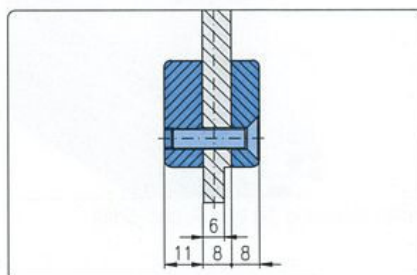
Roller fastening sets type A



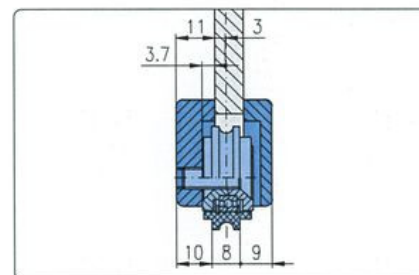
Panel element 6 mm
View A - A



Panel element 6 mm
View B - B



Panel element 8 mm
View A - A



Panel element 8 mm
View B - B

Technical data

base body
material: aluminium
surface: natural anodised

one sided

Description	Weight	Article-No.
Roller fastening set type A, one sided, complete	55.5 g	1.66.5160

Single parts

Description	Pcs.	Weight	Article-No.
Roller bracket type A, left	1	21.0 g	1.66.5299
Roller 29	1	12.0 g	1.66.2290
Countersunk screw DIN 7991 - M6×20	1	4.5 g	0.63.D07991.06020
Cap-screw DIN 6912 - M6×20	2	5.0 g	0.63.D06912.06020
Washer DIN 6340 - 6.4	2	4.0 g	0.62.D06340.06.4



double sided

Description	Weight	Article-No.
Roller fastening set type A, double sided, complete	64.5 g	1.66.5260

Single parts

Description	Pcs.	Weight	Article-No.
Roller bracket type A, right	1	16.0 g	1.66.5298
Roller bracket type A, left	1	21.0 g	1.66.5299
Roller 29	1	12.0 g	1.66.2290
Countersunk screw DIN 7991 - M6×20	1	4.5 g	0.63.D07991.06020
Countersunk screw DIN 7991 - M6×25	2	5.5 g	0.63.D07991.06025



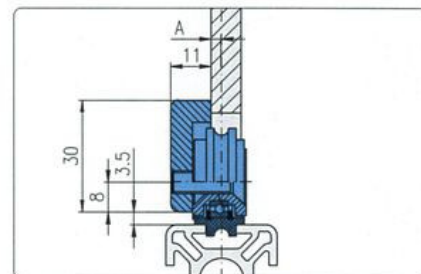
Roller fastening sets type B



Guidance in profile slot

Application

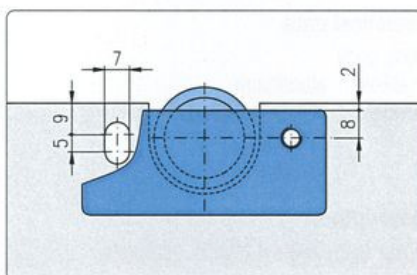
The roller fastening set allows the mounting of the roller into the panel element



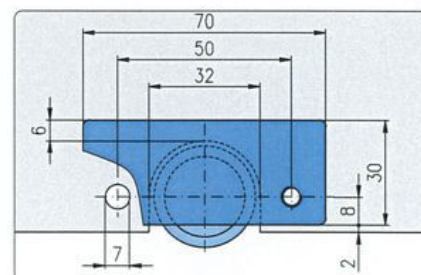
Guidance in twin track guide

Comments

Mounting position of roller optional
A = 1.7 mm
2.7 mm



Mounting on top side

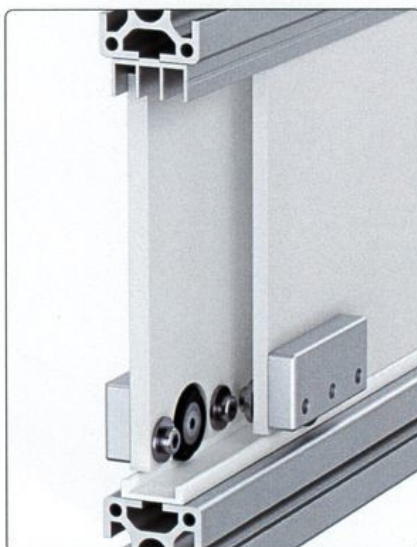


Mounting on bottom side

Comments

The elongated hole in the panel element allows to adjust the height tolerance and to unhinge the sliding door

Roller fastening sets type B

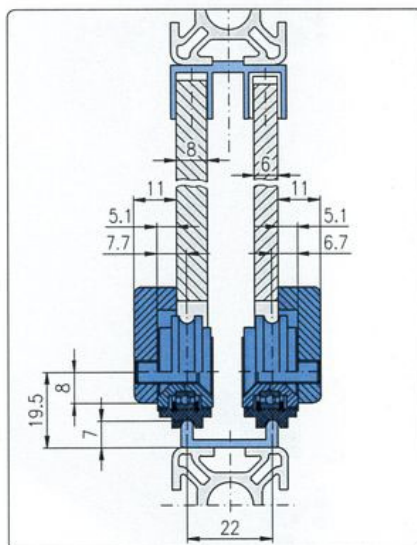


Application

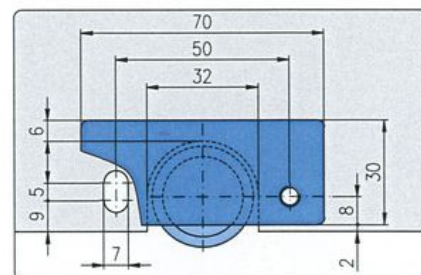
Guidance of sliding door
on top: sliding profile 30×14
on bottom: twin track guide with profile

The slot in the panel element allows:

- adjustment of height tolerance
- removal of the sliding door



Mounting position of roller:
dimension 6.7 = panel element 6 mm
dimension 7.7 = panel element 8 mm



Technical data

base body
material: aluminium
surface: natural anodised

Description	Weight	Article-No.
Roller fastening set type B, complete	62 g	1.66.5360

Single parts

Description	Pcs.	Weight	Article-No.
Roller bracket type B	1	21.0 g	1.66.5399
Roller 29	1	12.0 g	1.66.2290
Countersunk screw DIN 7991 - M6×20	1	4.5 g	0.63.D07991.06020
Cap-screw DIN 6912 - M6×20	2	5.0 g	0.63.D06912.06020
Washer DIN 6340 - 6.4	2	4.0 g	0.62.D06340.06.4

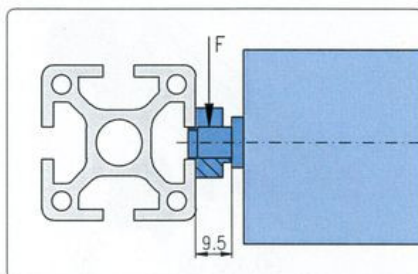


Mounting adaptor for roller



Application

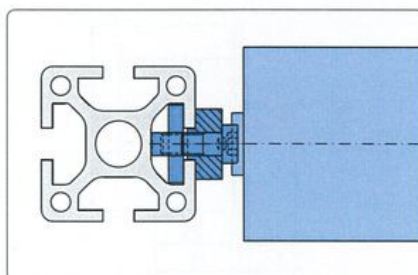
For fastening of rollers



Comments

Simple mounting, enables installation without dismantling of frame

$F_{max} = 1,000 \text{ N}$



Technical data

material: PA, black

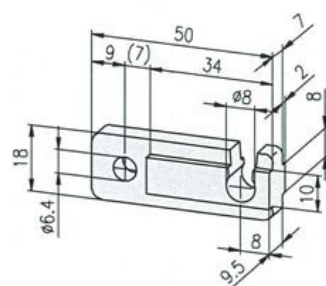
Mounting elements

F-slot: threaded plate F M6 1.31.FM6

E-slot: threaded plate E M6 1.31.EM6

threaded plate, heavy E M6 1.31.6EM6

cap-screw DIN 6912, M6



Description

Mounting adaptor for roller Ø8

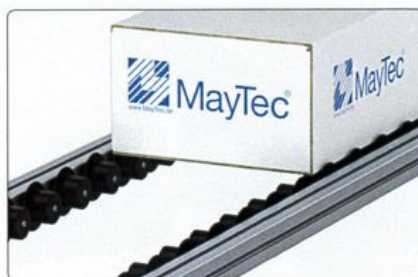
Weight

9 g

Article-No.

1.66.70808

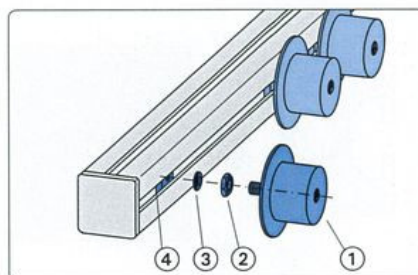
Edge roller



Application

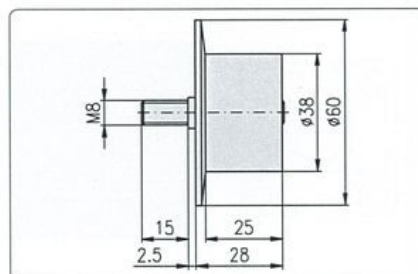
Roller conveyors for transporting boxes and containers

- low noise
- low friction operation due to double ball bearings
- simple assembly



Single parts

- ① edge roller
- ② hexagon nut
- ③ shim
- ④ threaded plate



Technical data

material:

- roller: impact resistant plastic
- axle: galvanised

colour:

- roller: black

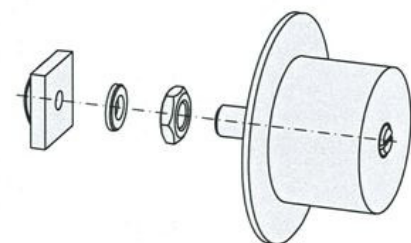
bearings: steel or stainless ball bearings
on galvanised steel bolt

loading capacity:

- static: 50 N
- dynamic: 100 N

Mounting elements

threaded plate E M8	1.31.EM8
hexagon nut DIN 934 - M8	0.61.D00934.08
washer DIN 125 - 8.4	0.62.D00125.A08.4



Description

Edge roller E

Weight

51.0 g

Article-No.

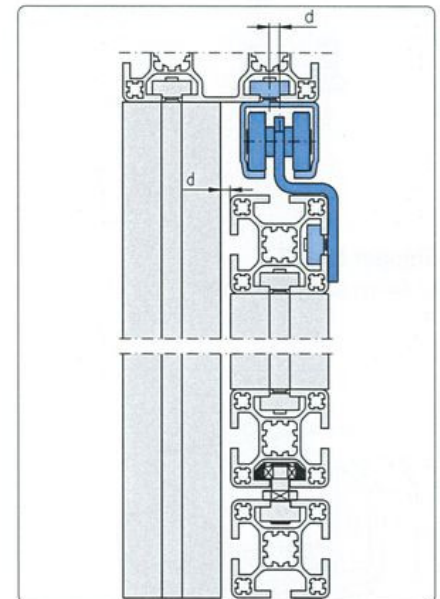
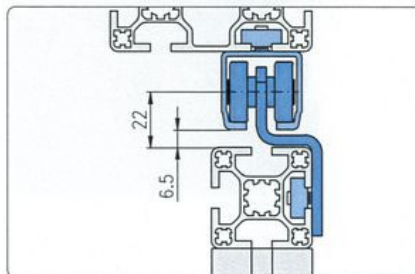
1.66.7523860

Runner for sliding suspended doors



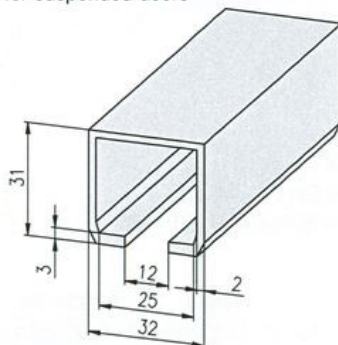
Application

Sliding suspended doors made of profile frames for large openings and heavy doors



Distance d = mismatch of Alu C-track

Alu C-track for suspended doors



Technical data

bar length: 6 m
material: aluminium
surface: natural anodised

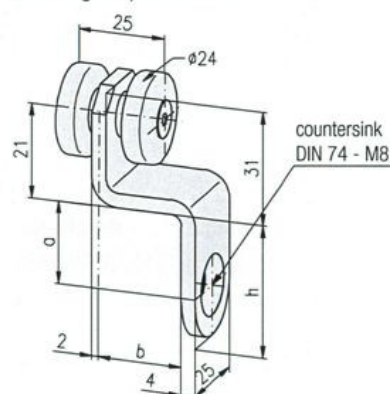
Description



Description	Weight	Article-No.
Alu C-track	bar	3.6 kg
Alu C-track	cut to length	0.6 kg

1.19.14532.60
1.19.14532-A00A00/...
/ ... = length in mm

Runner for sliding suspended door



Technical data

material:
• strap: VA
• bolt: C45 K
• distance bush: AlMg3
max. load capacity: 100 kg

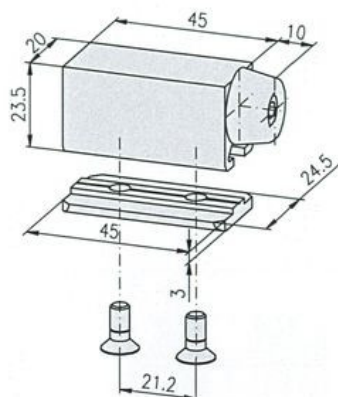
Comments

Countersink DIN 74 - M8 for
countersunk screw DIN 7991 - M8

Description

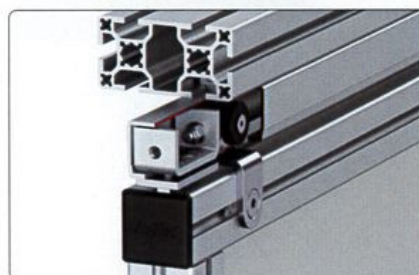
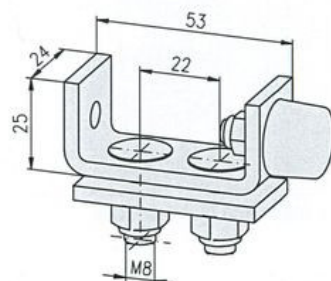
Description	a	b	h	Weight	Article-No.
Runner for sliding susp. door, PG 40	21.0	20.0	38.0	102 g	1.66.81140
Runner for sliding susp. door, PG 45	23.5	22.5	43.0	114 g	1.66.81145

Stopper type 1 for sliding suspended door



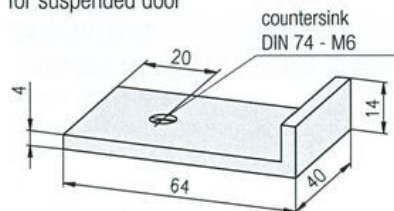
Description	Weight	Article-No.
Stopper type 1 for sliding suspended door, complete	63 g	1.66.8201055

Stopper type 2 for sliding suspended door



Description	Weight	Article-No.
Stopper type 2 for sliding suspended door, complete	160 g	1.66.8202065

Frame guide for suspended door

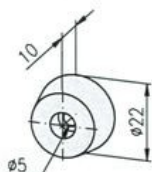


Technical data
material: aluminium
surface: natural anodised

Comments
Countersink DIN 74 - M6 for
countersunk screw DIN 7991 - M6

Description	Weight	Article-No.
Frame guide for suspended door	30 g	1.66.8050

Rubber door stop for suspended door



Technical data
material: rubber
colour: black

Description	Weight	Article-No.
Rubber door stop for suspended door	3 g	1.66.8060

Slot rollers

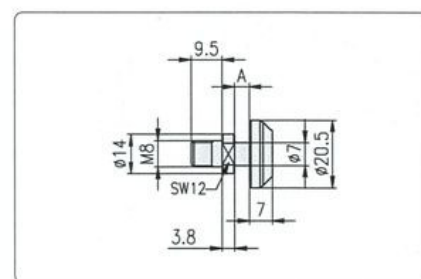
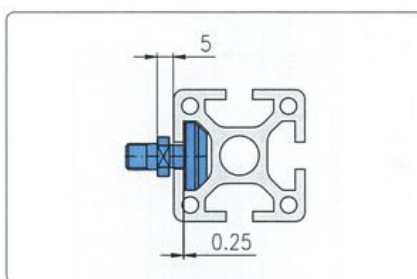
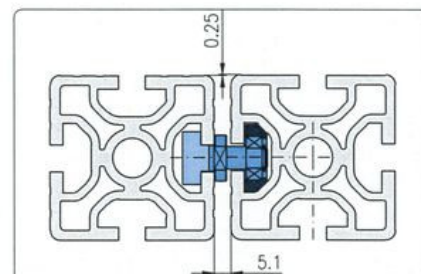
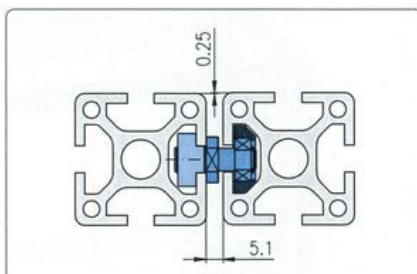


Application

For light running sliding doors

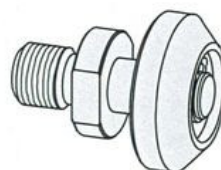
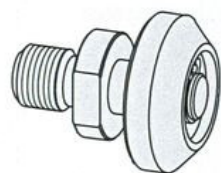
Technical data

material: PETP
colour: black
max. static load: 8 kg/roller



Fastening elements (optional)

threaded plate E M8	1.31.EM8
threaded plate, heavy, E M8	1.31.6EM8
T-Nut, E M8	1.32.EM8
T-Nut for subs. insertion E, M8	1.32.4EM8



Description	A	Weight	Article-No.
Slot roller E3	4.45	24 g	1.67.42E3M8

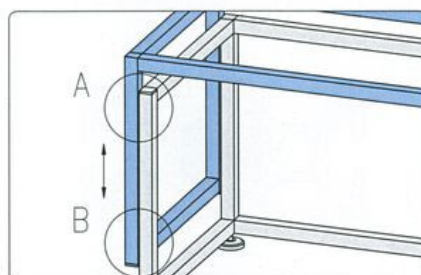
Description	A	Weight	Article-No.
Slot roller E4	5.45	24 g	1.67.42E4M8

Guidance system

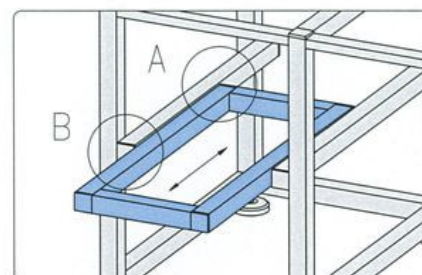


Application

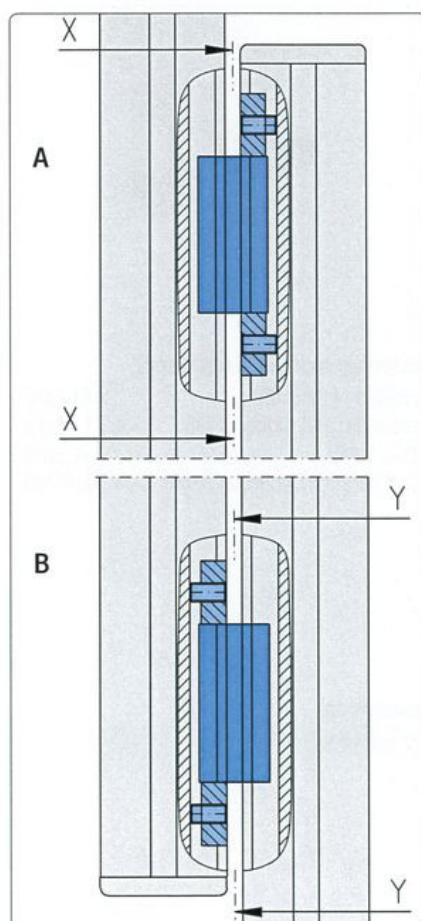
Slideway with sliding blocks e.g. for lifting tables and drawers



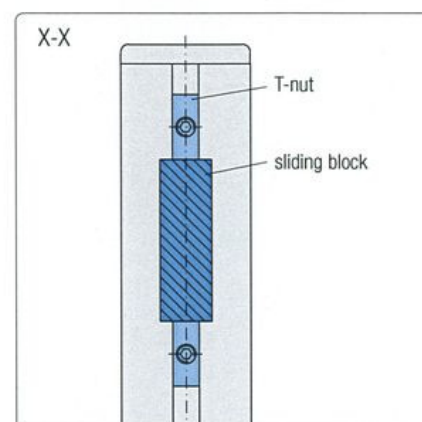
Slideway for lifting table



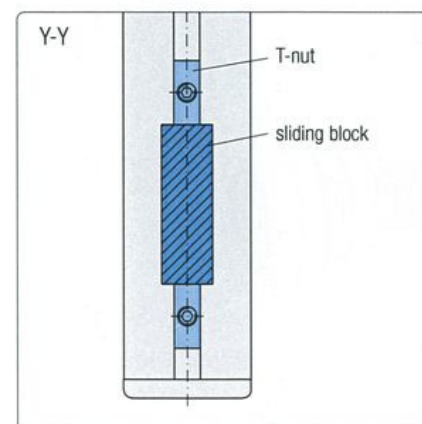
Slideway for drawer



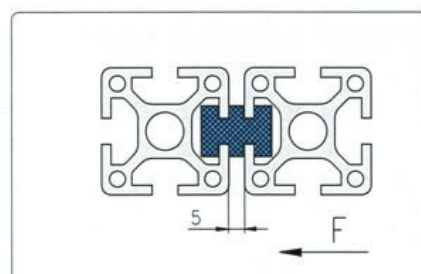
Details "A" and "B"



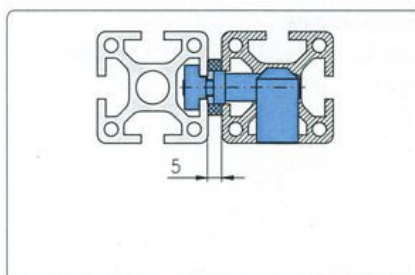
View "X"



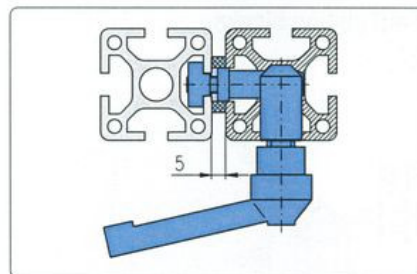
View "Y"



Clamping for guidance system



Clamping with setscrew



Clamping with clamping lever

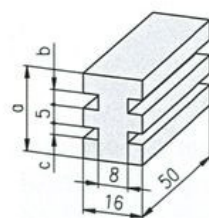
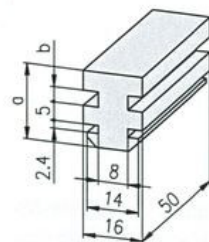
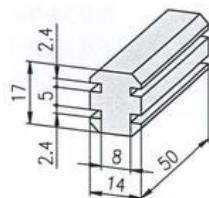
Single parts for clamping

Description	Article-No.
T-nut sliding block	1.67.□M8
Distance washer	1.67.2008
Clamping lever	1.29.801030

Connector

Description	for profile	Article-No.
Connector, screw-typee, parallel, M8	30×30	1.21.3-4S5M8-7
Connector, screw-typee, parallel, M8	40×40	1.21.4-5S5M8-11
Connector, screw-typee, parallel, M8	45×45	1.21.45-5S5M8-11
Connector, screw-typee, parallel, M8	50×50	1.21.5-6S5M8-11
Connector, screw-typee, parallel, M8	60×60	1.21.6S1M8-11

Sliding blocks



Technical data

material:	PA6G oil, (murlubric or similar)
colour:	black
max. carrying capacity:	$p = 20 \text{ N/mm}^2$
at	- temperature 20°C - velocity 1 m/sec

Comments

raw finish on request

Description	F	Weight	Article-No.
Sliding block F	1,500 N	11 g	1.67.F2F2

Description	a	b	F	Weight	Article-No.
Sliding block F/E3	19.6	3.2	1,500 N	15 g	1.67.F2E3
Sliding block F/E4	20.6	4.2	1,500 N	15 g	1.67.F2E4

Description	a	b	c	F	Weight	Article-No.
Sliding block E3	22.2	3.2	3.2	2,000 N	18 g	1.67.E3E3
Sliding block E3/E4	23.2	3.2	4.2	2,000 N	18 g	1.67.E3E4
Sliding block E4	24.2	4.2	4.2	2,000 N	23 g	1.67.E4E4

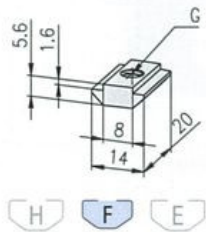
T-nut sliding blocks

Technical data

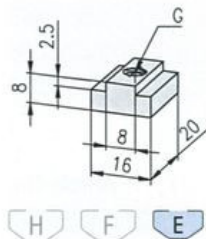
material: PA6G oil (murlubric or similar)
colour: black

Comments

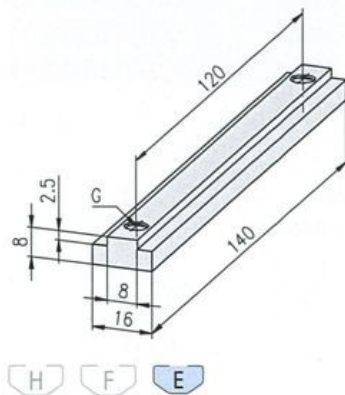
raw finish on request



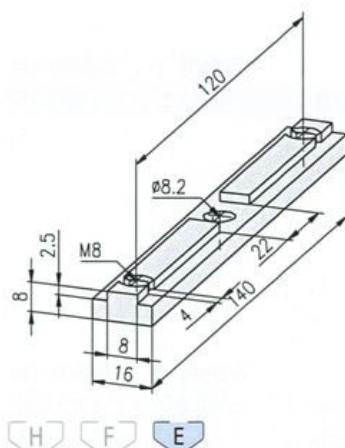
Description	G	Weight	Article-No.
T-nut sliding block F	M6	1.5 g	1.67.FM6
T-nut sliding block F	M8	1.5 g	1.67.FM8



Description	G	Weight	Article-No.
T-nut sliding block E	M6	3.0 g	1.67.EM6
T-nut sliding block E	M8	3.0 g	1.67.EM8



Description	G	Weight	Article-No.
T-nut sliding block E	2×M6	17.0 g	1.67.E2M61400
T-nut sliding block E	2×M8	16.6 g	1.67.E2M81400

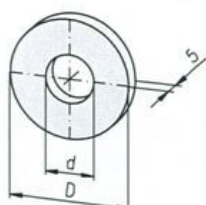


Description	Weight	Article-No.
T-nut sliding block E 2×M8	15.6 g	1.67.E2M81408
for Eco-Slide with clamping lever		

Distance washer

Technical data

material: PVC
colour: grey



Description	D	d	Weight	Article-No.
Distance washer	22	8.3	3.0 g	1.67.2002
Distance washer	28	13.0	3.0 g	1.67.2008

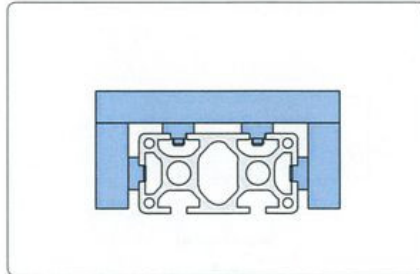
Eco-Slides



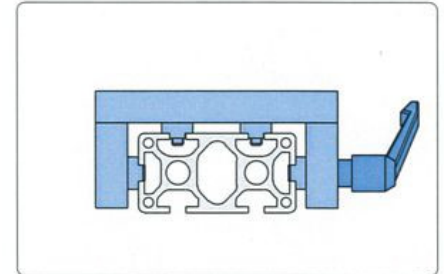
Application

Sliding carriage in variable, simple and rugged design with low sliding resistance

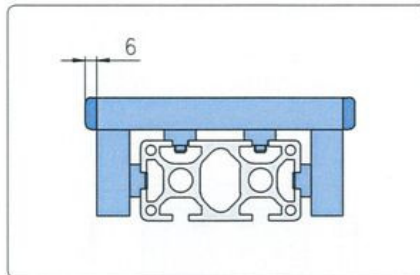
High tolerance adjustment for width and height



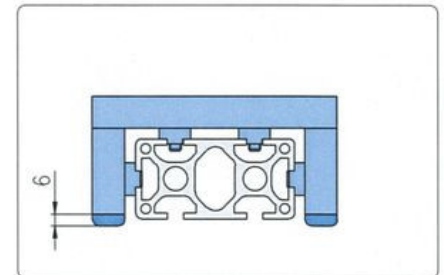
without clamping lever



with clamping lever



with side cover caps



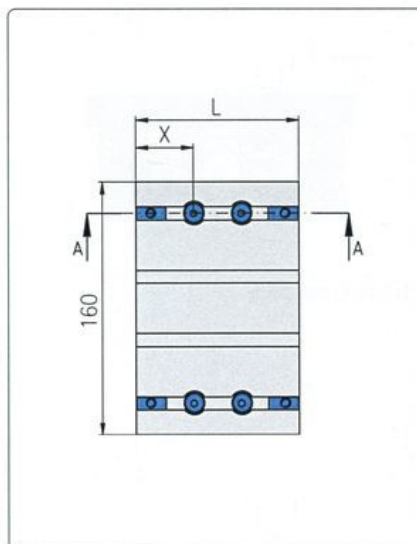
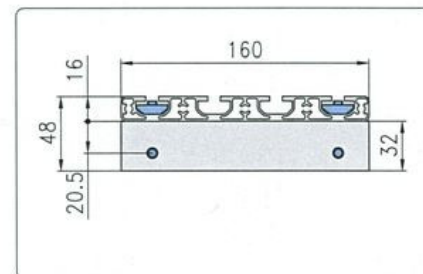
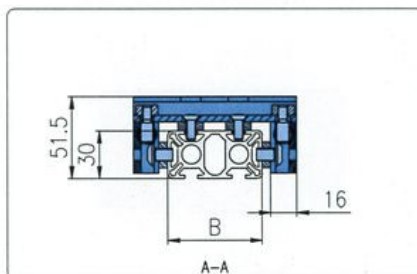
with lower cover caps

Eco-Slide
for profile group 30
F-slot



Technical data

loading capacity: max. 1,000 N



Width of profile

30 mm

Description	B	X	L	Weight	Article-No.
Eco-Slide, PG 30 - 30F		36,5	73	510 g	1.67.S101.030030F
Eco-Slide, PG 30 - 30F, with clamping lever		36,5	73	549 g	1.67.S102.030030F

60 mm

Description	B	X	L	Weight	Article-No.
Eco-Slide, PG 30 - 60F		36,5	103	600 g	1.67.S101.030060F
Eco-Slide, PG 30 - 60F, with clamping lever		36,5	103	639 g	1.67.S102.030060F

100 mm

Description	B	X	L	Weight	Article-No.
Eco-Slide, PG 30 - 100F		46,5	143	720 g	1.67.S101.030100F
Eco-Slide, PG 30 - 100F, with clamping lever		46,5	143	759 g	1.67.S102.030100F

150 mm

Description	B	X	L	Weight	Article-No.
Eco-Slide, PG 30 - 150F		46,5	193	810 g	1.67.S101.030150F
Eco-Slide, PG 30 - 150F, with clamping lever		46,5	193	849 g	1.67.S102.030150F

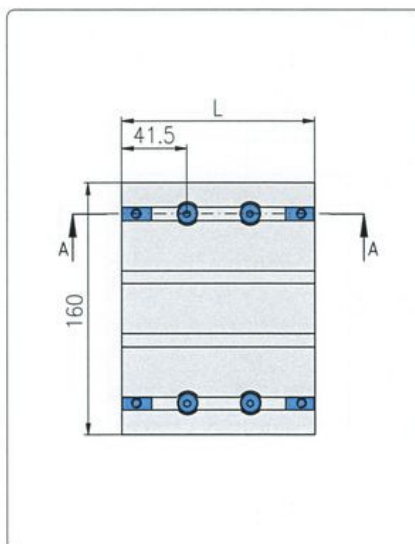
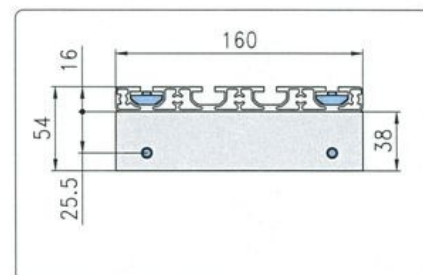
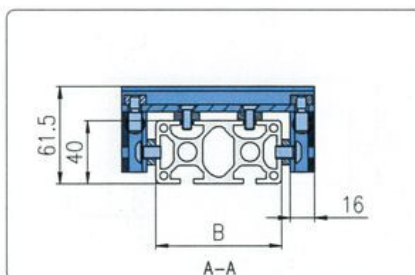
Eco-Slide

for profile group 40
E-slot



Technical data

loading capacity: max. 1,000 N



Width of profile

40 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 40 - 40E		83	555 g	1.67.S101.040040E
Eco-Slide, PG 40 - 40E, with clamping lever		83	594 g	1.67.S102.040040E

80 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 40 - 80E		123	670 g	1.67.S101.040080E
Eco-Slide, PG 40 - 80E, with clamping lever		123	709 g	1.67.S102.040080E

120 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 40 - 120E		163	790 g	1.67.S101.040120E
Eco-Slide, PG 40 - 120E, with clamping lever		163	829 g	1.67.S102.040120E

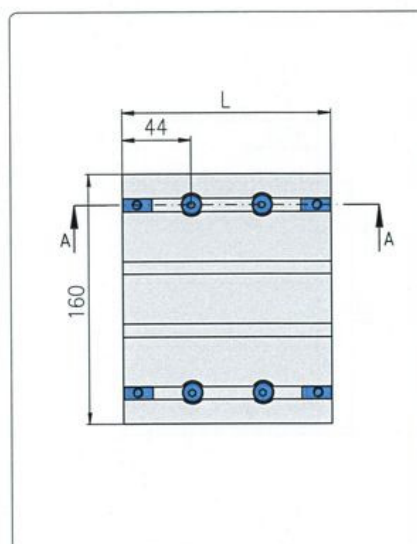
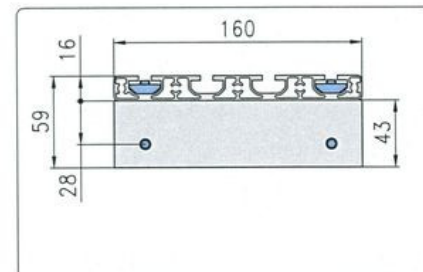
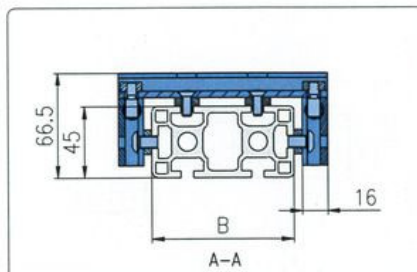
160 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 40 - 160E		203	910 g	1.67.S101.040160E
Eco-Slide, PG 40 - 160E, with clamping lever		203	949 g	1.67.S102.040160E

Eco-Slide
for profile group 45
E-slot

Technical data

loading capacity: max. 1,000 N


Width of profile
45 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 45 - 45E		88	665 g	1.67.S101.045045E
Eco-Slide, PG 45 - 45E, with clamping lever		88	704 g	1.67.S102.045045E

90 mm

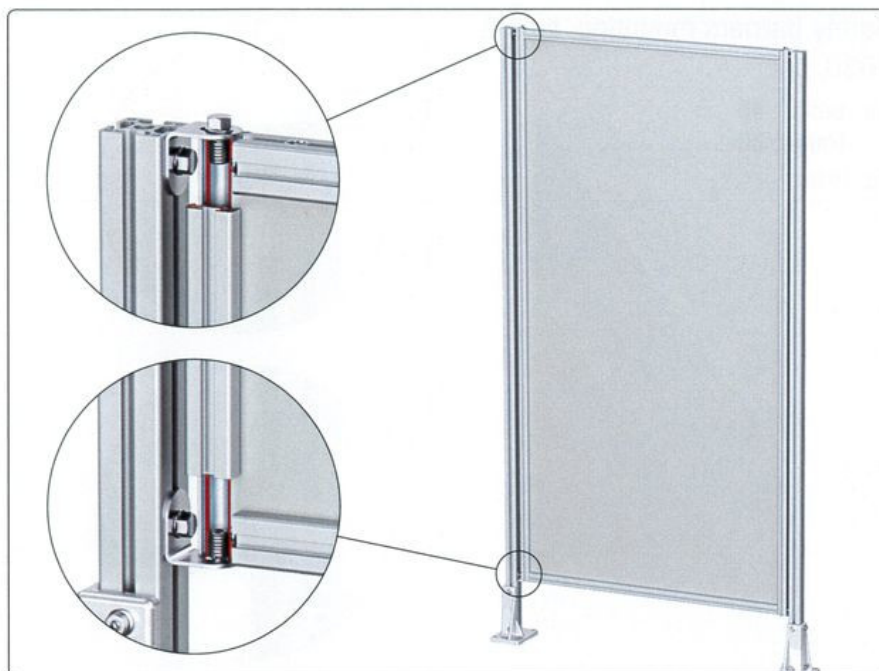
Description	B	L	Weight	Article-No.
Eco-Slide, PG 45 - 90E		133	710 g	1.67.S101.045090E
Eco-Slide, PG 45 - 90E, with clamping lever		133	749 g	1.67.S102.045090E

Safety barriers mounting, type 1 4030, cpl.

for post: 40

frame: 30

gap 12.5 mm



Description	Weight	Article-No.
Safety barriers mounting, type 1, 4030, cpl.	303.2 g	1.68.1.1.4030

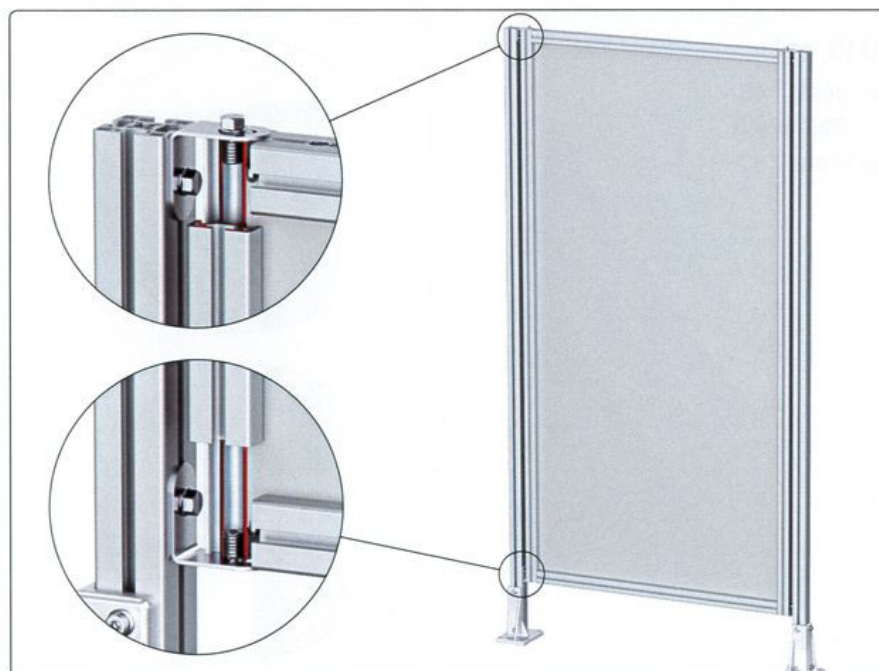
Assemblies	Pcs	Weight	Article-No.
Safety barriers mounting, type 1, 4030, top	2	77.3 g	1.68.1.1.4030.1
Safety barriers mounting, type 1, 4030, bottom	2	74.3 g	1.68.1.1.4030.2
Single parts ➡ 6.74			

4540, cpl.

for post: 45

frame: 40

gap 12.5 - 22.5 mm



Description	Weight	Article-No.
Safety barriers mounting, type 1, 4540, cpl.	371.2 g	1.68.1.1.4540

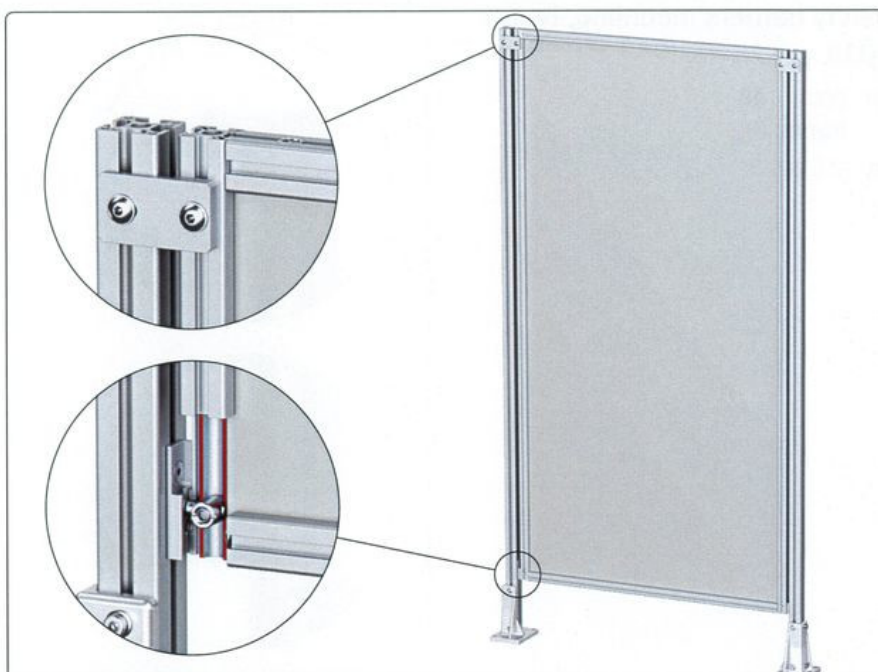
Assemblies	Pcs	Weight	Article-No.
Safety barriers mounting, type 1, 4540, top	2	94.3 g	1.68.1.1.4540.1
Safety barriers mounting, type 1, 4540, bottom	2	91.3 g	1.68.1.1.4540.2
Single parts ➡ 6.75			

Safety barriers mounting, type 2 4030, cpl.

for post: 40

frame: 30

gap 10 mm



Description	Weight	Article-No.
Safety barriers mounting, type 2, 4030, cpl.	241.0 g	1.68.2.1.4030

Assemblies	Pcs	Weight	Article-No.
Safety barriers mounting, type 2, 4030, top	2	76.5 g	1.68.2.1.4030.1
Safety barriers mounting, type 2, 4030, bottom left	1	44.0 g	1.68.2.1.4030.2L
Safety barriers mounting, type 2, 4030, bottom right	1	44.0 g	1.68.2.1.4030.2R

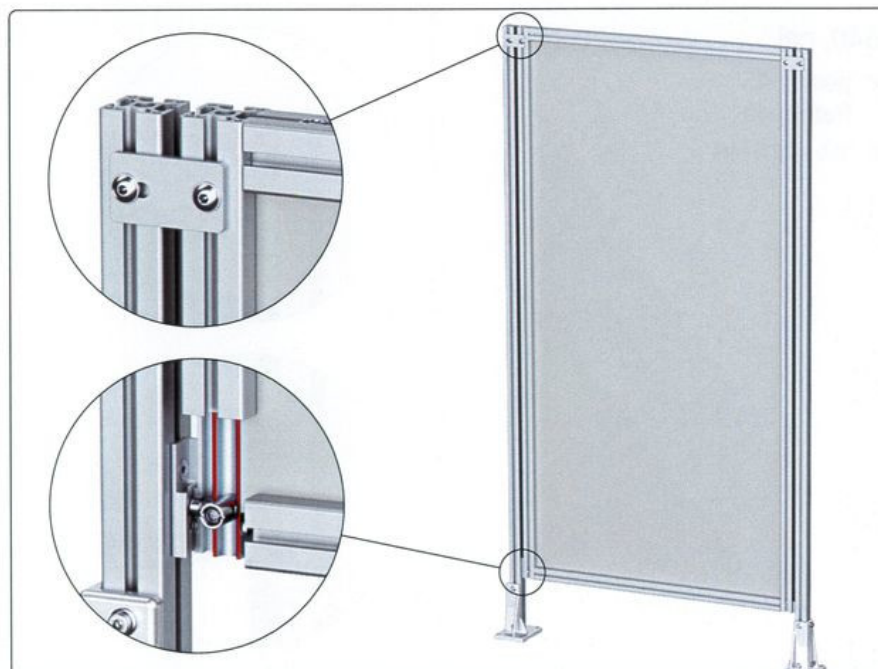
Single parts ➡ 6.76

4040, cpl.

for post: 40

frame: 40

gap 10 mm



Description	Weight	Article-No.
Safety barriers mounting, type 2, 4040, cpl.	229.6 g	1.68.2.1.4040

Assemblies	Pcs	Weight	Article-No.
Safety barriers mounting, type 2, 4040, top	2	70.8 g	1.68.2.1.4040.1
Safety barriers mounting, type 2, 4030, bottom left	1	44.0 g	1.68.2.1.4030.2L
Safety barriers mounting, type 2, 4030, bottom right	1	44.0 g	1.68.2.1.4030.2R

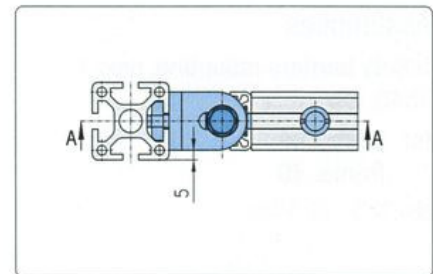
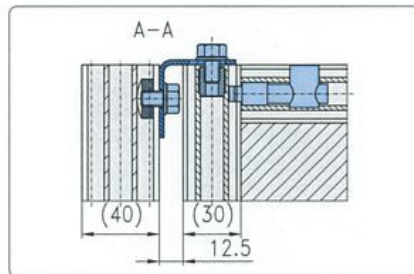
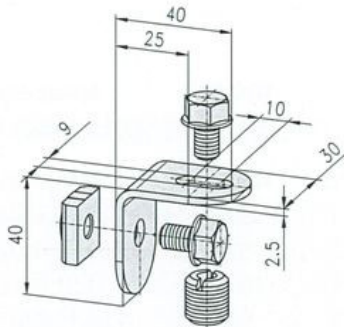
Single parts ➡ 6.77

Assemblies

Safety barriers mounting, type 1 4030, top

for post: 40
frame: 30

gap 12.5 mm



Description

Safety barriers mounting, type 1, 4030, top

Weight

77.3 g

Article-No.

1.68.1.1.4030.1

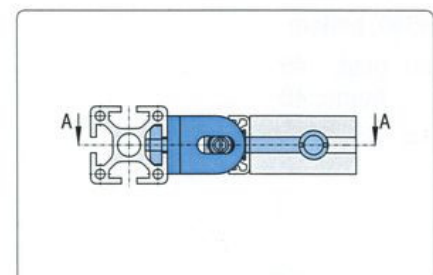
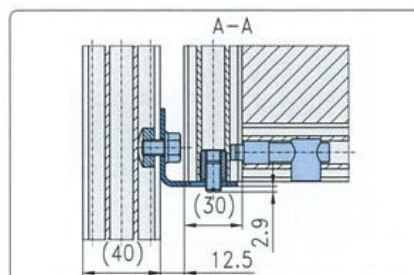
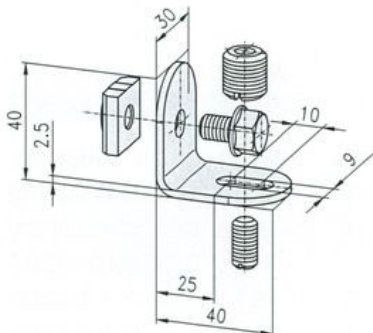
Single parts

	Pcs	Weight	Article-No.
Angle 40×40×2,5, stainless	1	36.0 g	1.68.1.1.4030.x/01V
Hexagon head screw with flange DIN 6921 - M8×12	2	8.0 g	0.63.D06921.08012
Threaded plate, heavy, E, M8	1	16.3 g	1.31.6EM8
Threaded insert M14/M8, L15	1	9.0 g	1.35.1140815

4030, bottom

for post: 40
frame: 30

gap 12.5 mm



Description

Safety barriers mounting, type 1, 4030, bottom

Weight

74.3 g

Article-No.

1.68.1.1.4030.2

Single parts

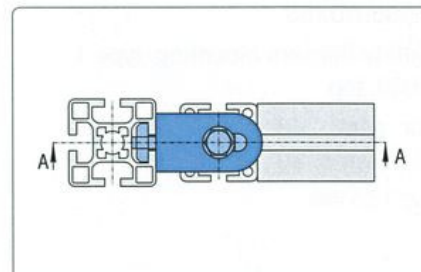
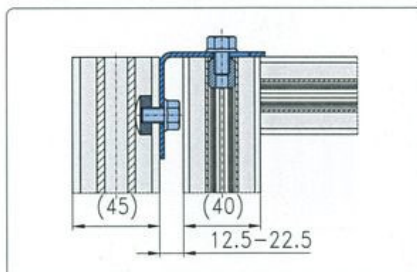
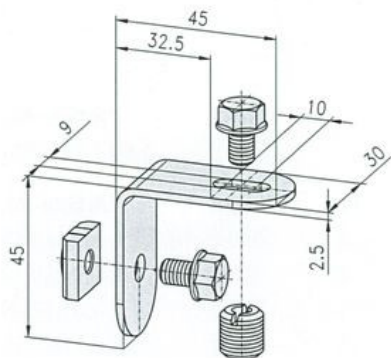
	Pcs	Weight	Article-No.
Angle 40×40×2,5, stainless	1	36.0 g	1.68.1.1.4030.x/01V
Shaft screw with slit DIN 427 - M8×16	1	5.0 g	0.63.D00427.08016
Hexagon head screw with flange DIN 6921 - M8×12	1	8.0 g	0.63.D06921.08012
Threaded plate, heavy, E, M8	1	16.3 g	1.31.6EM8
Threaded insert M14/M8, L15	1	9.0 g	1.35.1140815

Assemblies

Safety barriers mounting, type 1 4540, top

for post: 45
frame: 40

gap 12.5 - 22.5 mm



Description

Safety barriers mounting, type 1, 4540, top

Weight

94.3 g

Article-No.

1.68.1.1.4540.1

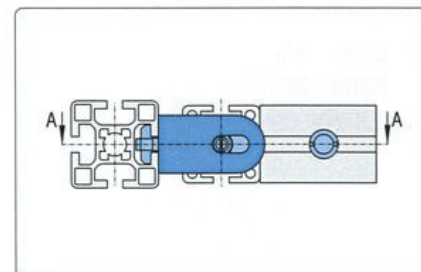
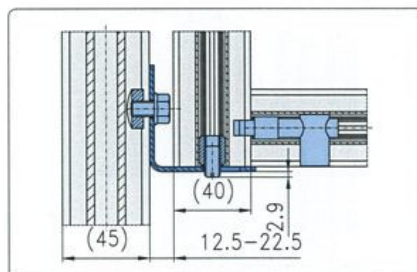
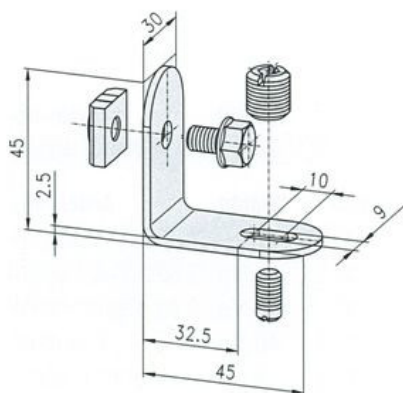
Single parts

	Pcs	Weight	Article-No.
Angle 55×55×2,5, stainless	1	53.0 g	1.68.1.1.4540.x/01V
Hexagon head screw with flange DIN 6921 - M8×12	2	8.0 g	0.63.D06921.08012
Threaded plate, heavy, E, M8	1	16.3 g	1.31.6EM8
Threaded insert M14/M8, L15	1	9.0 g	1.35.1140815

4540, bottom

for post: 45
frame: 40

gap 12.5 - 22.5 mm



Description

Safety barriers mounting, type 1, 4030, bottom

Weight

91.3 g

Article-No.

1.68.1.1.4540.2

Single parts

	Pcs	Weight	Article-No.
Angle 55×55×2,5, stainless	1	53.0 g	1.68.1.1.4540.x/01V
Shaft screw with slit DIN 427 - M8×16	1	5.0 g	0.63.D00427.08016
Hexagon head screw with flange DIN 6921 - M8×12	1	8.0 g	0.63.D06921.08012
Threaded plate, heavy, E, M8	1	16.3 g	1.31.6EM8
Threaded insert M14/M8, L15	1	9.0 g	1.35.1140815

Assemblies

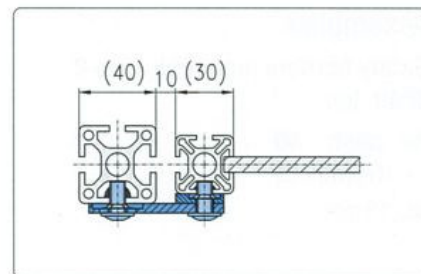
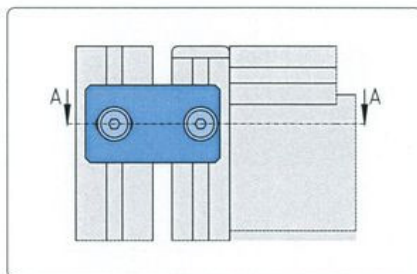
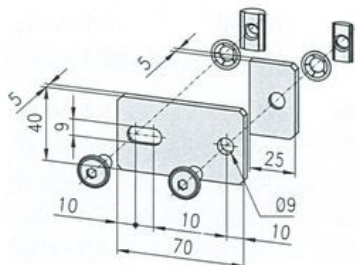
Safety barriers mounting, type 2

4030, top

for post: 40

frame: 30

gap 10 mm

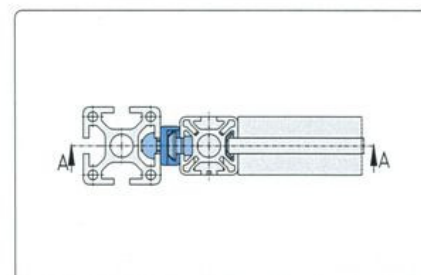
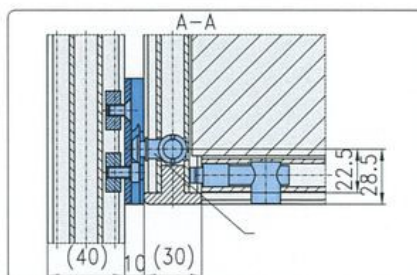
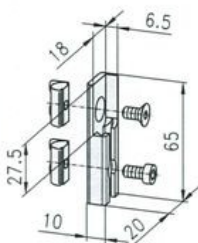


4030, bottom left / right

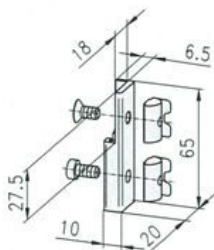
for post: 40

frame: 30

gap 10 mm



Drawing: bottom left
(mirror image: bottom right)



Description	Weight	Article-No.
Safety barriers mounting, type 2, 4030, top	76.5 g	1.68.2.1.4030.1

Single parts	Pcs	Weight	Article-No.
Connection plate 40×70×5	1	33.0 g	1.68.2.1.4030.1/01
Filler piece 40×25×5	1	11.0 g	1.68.2.1.4030.1/02
Clamping washer M8	2	0.9 g	0.62.WN04019.08
Round head flange screw WN 7381 - M8×16	2	9.0 g	0.63.WN7381.08016
T-Nut for subsequent insertion, w. spring, F, M8	1	3.7 g	1.32.4FM8
T-Nut for subsequent insertion, w. spring, E, M8	1	9.0 g	1.32.4EM8

Description	Weight	Article-No.
Safety barriers mounting, type 2, 4030, bottom left	44.0 g	1.68.2.1.4030.2L

Single parts	Pcs	Weight	Article-No.
Hanging bracket 20×10, left	1	17.0 g	1.68.2.1.4030.2L/01
Cylindric head screw DIN 6912 - M6×12	1	4.0 g	0.63.D06912.06012
Flat head screw DIN 7991 - M6×12	1	3.0 g	0.63.D07991.06012
T-Nut for subsequent insertion, w. spring, E, M6	1	10.0 g	1.32.4EM6

Description	Weight	Article-No.
Safety barriers mounting, type 2, 4030, bottom right	44.0 g	1.68.2.1.4030.2R

Single parts	Pcs	Weight	Article-No.
Hanging bracket 20×10, right	1	17.0 g	1.68.2.1.4030.2R/01
Cylindric head screw DIN 6912 - M6×12	1	4.0 g	0.63.D06912.06012
Flat head screw DIN 7991 - M6×12	1	3.0 g	0.63.D07991.06012
T-Nut for subsequent insertion, w. spring, E, M6	1	10.0 g	1.32.4EM6

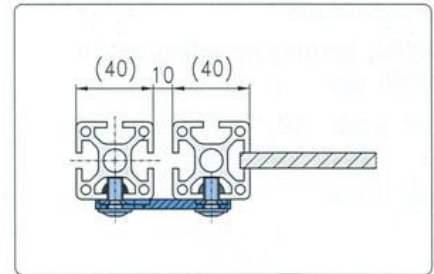
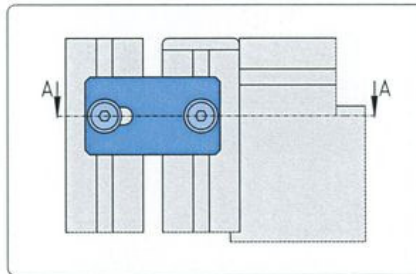
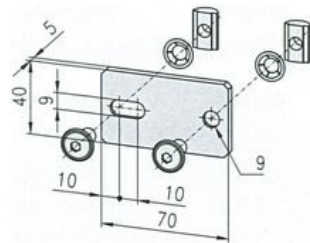
Assemblies

Safety barriers mounting, type 2 4040, top

for post: 40

frame: 40

gap 10 mm



Description

Safety barriers mounting, type 2, 4040, top

Weight

70.8 g

Article-No.

1.68.2.1.4040.1

Single parts

Connection plate 40×70×5

Pcs

1

Weight

33.0 g

Article-No.

1.68.2.1.4030.1/01

Clamping washer M8

2

0.9 g

0.62.WN04019.08

Round head flange screw WN 7381 - M8×16

2

9.0 g

0.63.WN7381.08016

T-Nut for subsequent insertion, w. spring, E, M8

2

9.0 g

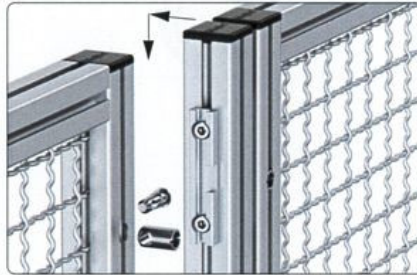
1.32.4EM8

Hanging bracket for safety barriers

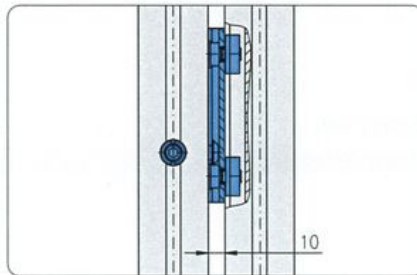


Application

Element for mounting unhingeable fence elements



The connector cross bushing can be fixed at the front or back



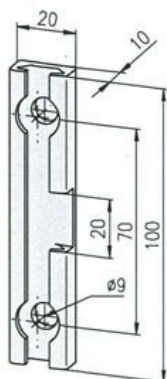
Technical data

material: aluminium
strength: F25
surface: natural anodised

Comments

Elements needed for mounting:

- cap-screw DIN 6912 M8×12 with threaded plate
- T-Nut for subsequent insertion M8 with cap-screw DIN 6912 M8×10
- parallel-connector with F-head



Description

Hanging bracket

Weight

16 g

Article-No.

1.68.201050

Suspended glider

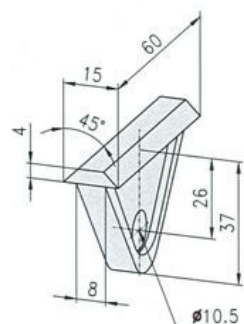


Application

Element for tool suspension in MayTec-profile

Technical data

material: PA-GF
colour: black
max. static load: 300 N



Description

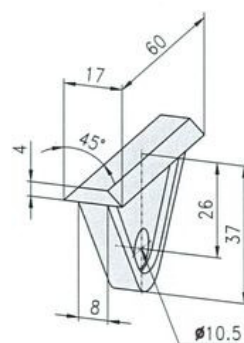
Suspended glider F

Weight

10 g

Article-No.

1.69.F010



Description

Suspended glider E

Weight

10 g

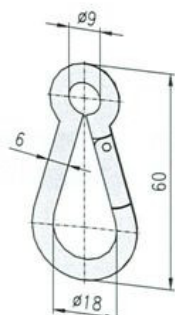
Article-No.

1.69.E010

Carabine swivel

Technical data

material: steel
surface: galvanised



Description

Carabine swivel 60×6

Weight

27 g

Article-No.

1.69.1606

1.7 Electrical accessories



Potential equalisation
➡ 7.02



Ground connections
➡ 7.03



Cable and hose
clamp
➡ 7.04



Block for
cable binder
➡ 7.05



Installation rings
➡ 7.06



Mounting set
for 19" profile
➡ 7.07



Safety interlocking-
mountings
➡ 7.08



Sensor brackets
➡ 7.13



Electrical installation
trunkings
➡ 7.14

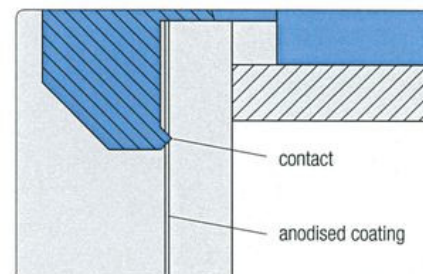
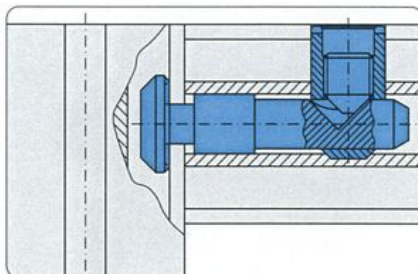
Potential equalisation



Application

Ground connections to establish the potential equalisation between two profiles

The serration at the bottom of the socket head of the connector pushes through the anodised coating of the profiles and thus provides the electrical contact

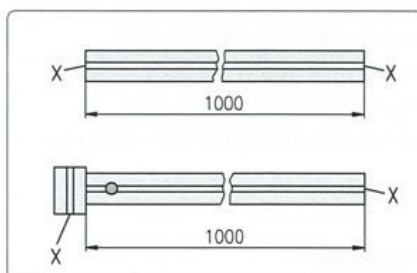


Comments

Suitable to equalise charge accumulations
Not suitable for higher currents

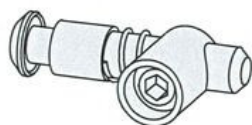
Technical data

Low current measurements in accordance with DIN VDE 0413, Part 4 for the control of protective circuits, earthing circuits and potential equalisation methods through low resistance connections for protection against dangerous currents



Resistance values with DC current
of more than 200 mA
with 1.0 m alu-profile

without connector	0.11 Ω
with 1 standard connector	> 2 M Ω
with 1 univ. grounding connector	0.11 Ω



Description

Description	Article-No.
Connector, universal, grounding, PG 20	1.21.2F0E
Connector, universal, grounding, PG 30	1.21.3F0E
Connector, universal, grounding, PG 40	1.21.4F0E
Connector, universal, grounding, PG 45	1.21.45F0E
Connector, universal, grounding, PG 50	1.21.5F0E
Connector, universal, grounding, PG 60	1.21.6F0E



Description

Description	Article-No.
Connector, universal, grounding, PG 20	1.21.2E0E
Connector, universal, grounding, PG 30	1.21.3E0E
Connector, universal, grounding, PG 40	1.21.4E0E
Connector, universal, grounding, PG 45	1.21.45E0E
Connector, universal, grounding, PG 50	1.21.5E0E
Connector, universal, grounding, PG 60	1.21.6E0E

Comments

More grounding connectors

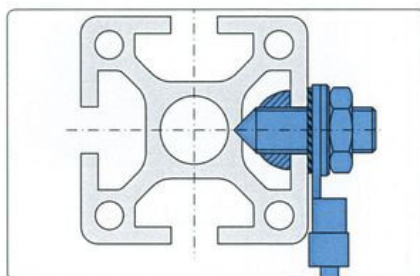
➡ Connectors 1.2A

Ground connections



Application

Couplings for grounding of anodised profiles



Comments

The grounding is caused by breaking the anodised layer at the bottom of the slot and at the profile's front side



Description

Ground connection F, M6

Weight

74 g

Article-No.

1.70.10FM6

Single parts

T-Nut for subsequent insertion F, M6

Setscrew DIN 914 - M6×25 - V2A

Fan type lock washer DIN 6798 - A6.4 - V2A

Hexagon nut DIN 439 - M6 - Ms

Washer with chamfer DIN 125 - B6.4 - Ms



Description

Ground connection E, M8

Weight

146 g

Article-No.

1.70.10EM8

Single parts

T-Nut for subsequent insertion E, M8

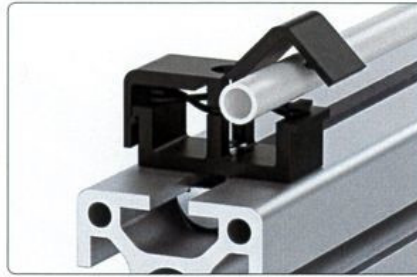
Setscrew DIN 914 - M8×25 - V2A

Fan type lock washer DIN 6798 - A8.4 - V2A

Hexagon nut DIN 439 - M8 - Ms

Washer with chamfer DIN 125 - B8.4 - Ms

Cable and hose clamp

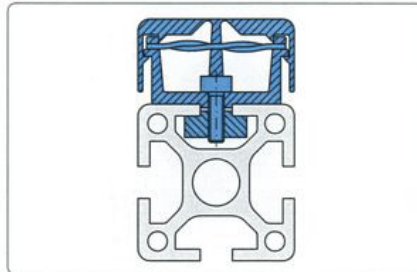


Application

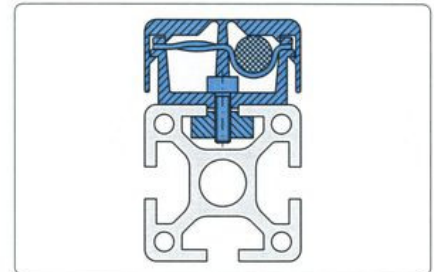
Fixing element for cables and hoses up to $\varnothing 12$ mm

Technical data

material: PA
colour: black



Mounting on profiles



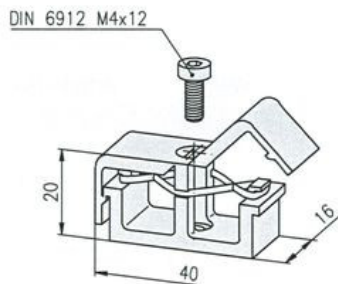
$\varnothing_{\text{max}} = 12$ mm for cables and hoses

Delivery unit

Including cap-screw DIN 6912 M4x12

Fastening elements for E-slot

T-Nut for subs. insertion, with leaf spring E, M4	1.32.4EM4
spring-nut E, M4	1.33.EM4
T-slot nut E, M4	1.34.10EM4



Description

Cable and hose clamp

Weight

8 g

Article-No.

1.71.1010

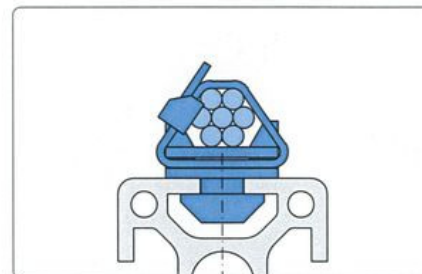
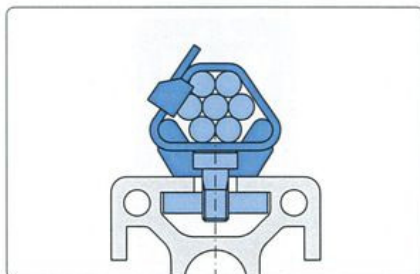
Block for cable binder,
Cross-blocks for cable binder
front-sided insertion,
Cable binder



Block for cable binder



Cross-block for cable binder



front-sided insertion

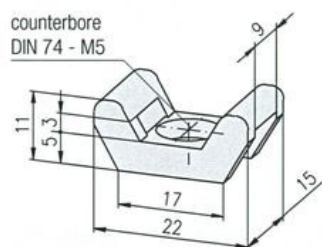
Technical data

material: PA
colour: black

Application

Element for fixing single cables and hoses or large quantities

Block for cable binder



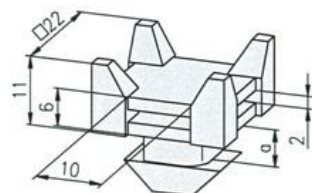
Comments

Counterbore DIN 74 - M5 for
cap-screw DIN 6912 - M5

Description

Description	Weight	Article-No.
Block for cable binder	1.6 g	1.71.2010

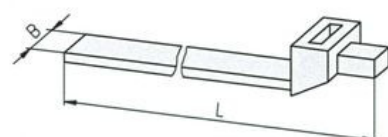
Cross-blocks for cable binder front-sided insertion



Description

Description	a	Weight	Article-No.
Cross-block for cable binder F	2.2	4.0 g	1.71.2020F2
Cross-block for cable binder E3	3.0	4.0 g	1.71.2020E3
Cross-block for cable binder E4	4.0	4.0 g	1.71.2020E4

Cable binder
detachable



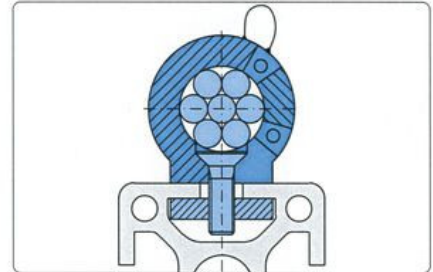
Description	B×L	Weight	Article-No.
Cable binder, detachable	4.8×190	1.0 g	1.71.2048190
Cable binder, detachable	7.6×150	1.9 g	1.71.2090140

Installation rings



Application

Element for fixing large quantities of cables and hoses
The rings can be opened for insertion

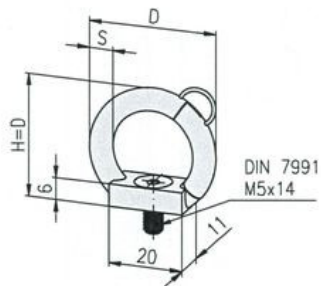


Technical data

material: PA-GF
colour: black

Comments

Delivery unit incl. screw



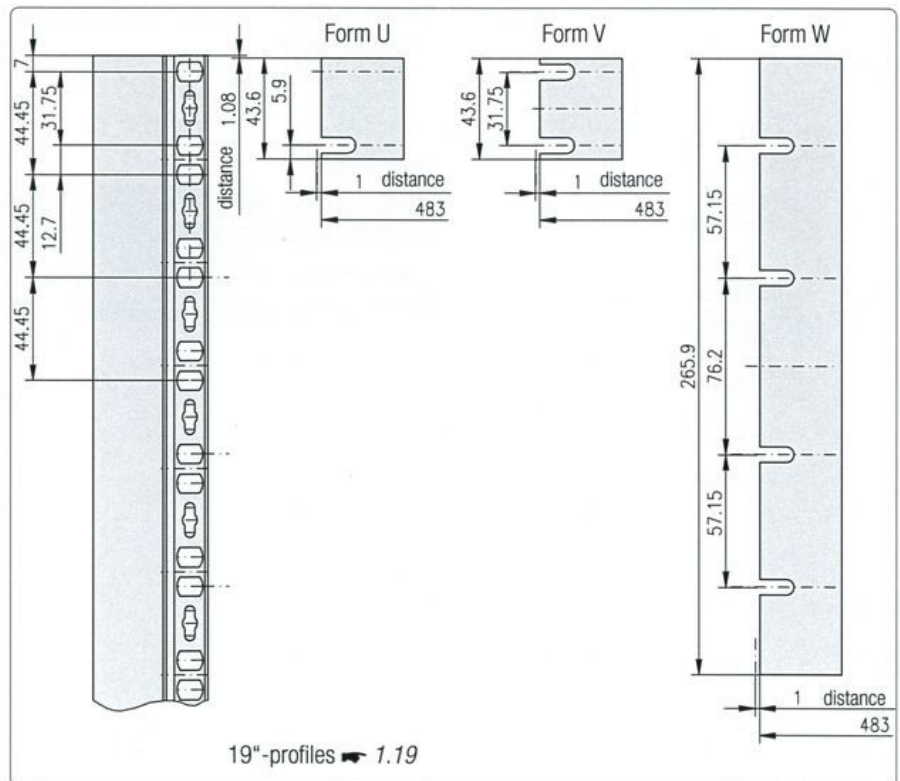
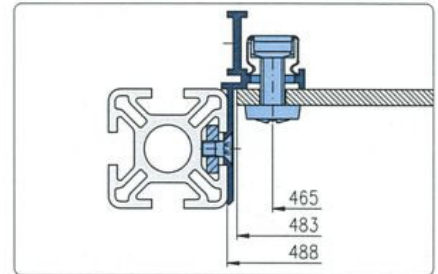
Description	D	s	Weight	Article-No.
Installation ring	Ø28.5	6.0	5 g	1.71.30285
Installation ring	Ø36.5	6.0	6 g	1.71.30365
Installation ring	Ø47.5	7.5	8 g	1.71.30475
Installation ring	Ø56.5	7.5	9 g	1.71.30565

Mounting set for 19" profile



Application

Fastening set for the assembly of 19" plug-in units and 19" profiles



Dimensions for front panels and housings according to DIN 41494

Technical data

screw and nut: steel, galvanised
plate and socket washer: PA, black
delivery unit: PU with 10 mounting sets

Description

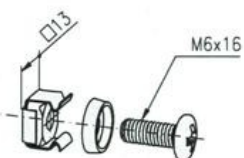
Mounting set for 19" profile

Weight

70 g

Article-No.

1.72.2010.10

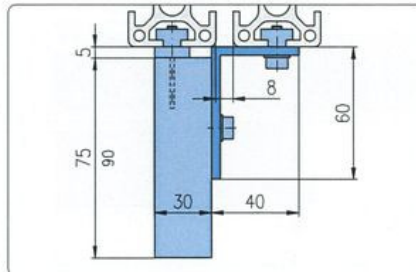


Safety interlocking-mountings for swinging door



Application

Mounting element for electrical interlocking switches



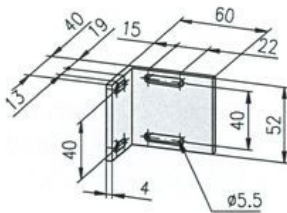
Comments

Assembly on
profile 30×30
profile 40×40
profile 40×80

Technical data

material: aluminium
surface: natural anodised

for swinging door



Description

Safety interlocking-mounting
for swinging door

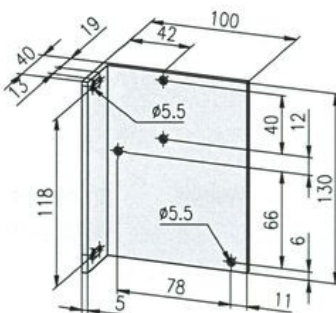
Weight

46 g

Article-No.

1.73.4010

with lock for swinging door



Description

Safety interlocking-mounting
with lock for swinging door

Weight

183 g

Article-No.

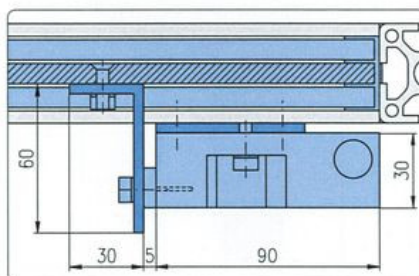
1.73.4020

Safety interlocking-mountings for sliding door



Application

Mounting element for the electrical interlocking of sliding doors



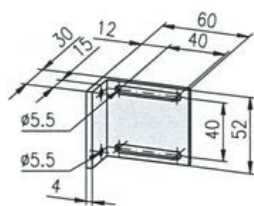
Comments

Assembly on
profile 30×30
profile 40×40
profile 40×80

Technical data

material: aluminium
surface: natural anodised

Contact bracket-mounting for sliding door



Description

Contact bracket-mounting
for sliding door

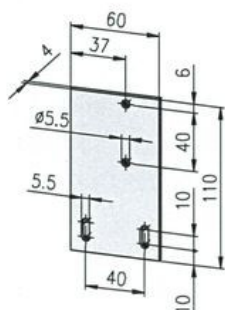
Weight

41 g

Article-No.

1.73.4030

Safety interlocking-mounting for sliding door



Description

Safety interlocking-mounting
for sliding door

Weight

70 g

Article-No.

1.73.4040

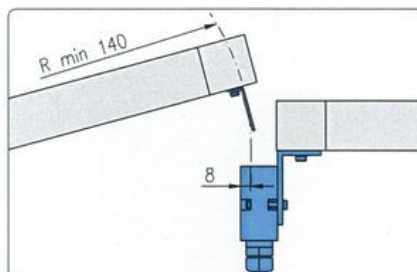
Safety interlocking-mountings AZ 17 for swinging door



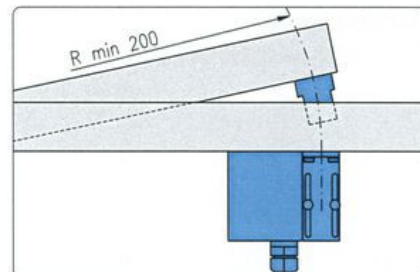
Application

Fastening elements for:

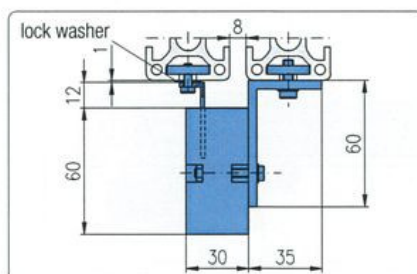
- safety switches AZ 17
- safety closing AZM 170 at sliding doors



Activation key
Mounting vertical to swivel radius



Activation key
Mounting horizontal to swivel radius



Comments

Assembly on
profile 30×30
profile 40×40
profile 40×80

Technical data

material: aluminium
surface: natural anodised

Delivery

Incl. lock washers DIN 9021 Ø4.3 mm
for mounting activation key

Description

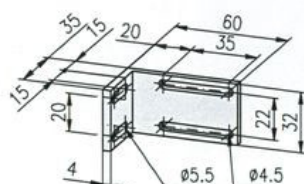
Safety interlocking-mounting AZ 17
for swinging door

Weight

26 g

Article-No.

1.73.4110



Safety interlocking-mountings AZ 17 for sliding door



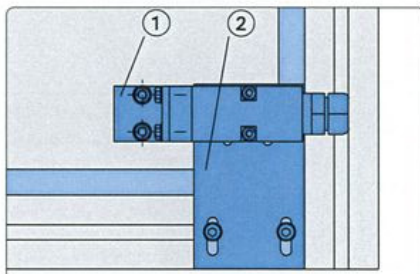
Application

Fastening elements for:

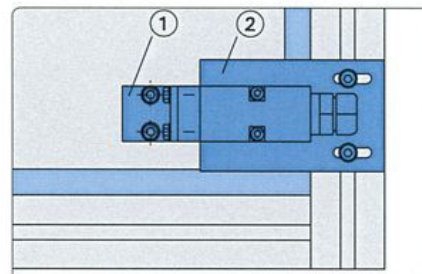
- safety switches AZ 17
- safety closing AZM 170 at sliding doors

Mounting position:

Safety switch parallel to sliding door

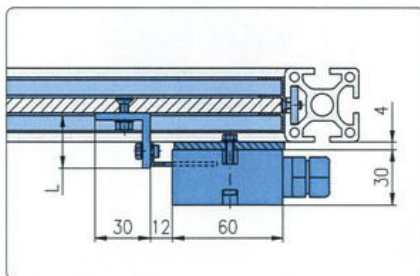


Fastening plate horizontal



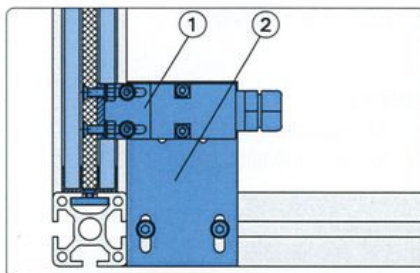
Fastening plate vertical

- ① Contact bracket-mounting AZ 17
② Safety interlocking-mounting AZ 17

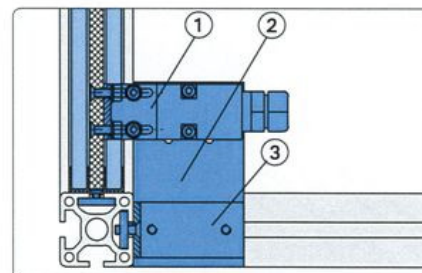


Mounting position:

Safety switch across to sliding door

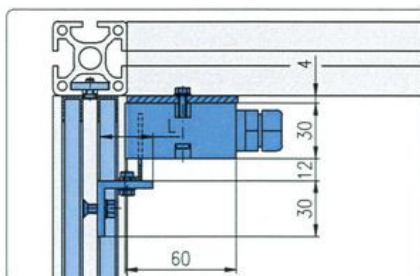


Fixing at cross profile



Fixing at longitudinal profile

- ① Contact bracket-mounting AZ 17
② Safety interlocking-mounting AZ 17
③ Angle for safety interlocking-mounting AZ 17



Safety interlocking-mountings AZ 17 for sliding door

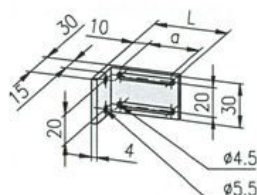
Technical data

material: aluminium
surface: natural anodised

Comments

Assembly on
profile 30×30
profile 40×40
profile 40×80

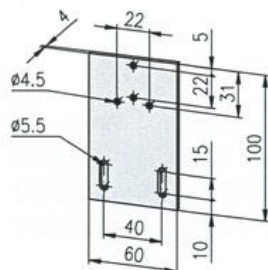
Contact bracket-mounting AZ 17 for sliding door



Description

	a	Weight	Article-No.
Contact bracket-mounting AZ 17 for sliding door, L 30	15	16 g	1.73.4123
Contact bracket-mounting AZ 17 for sliding door, L 40	25	19 g	1.73.4124
Contact bracket-mounting AZ 17 for sliding door, L 50	35	21 g	1.73.4125

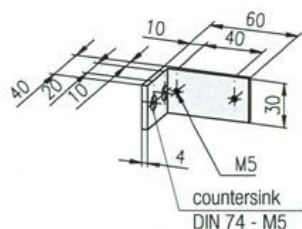
Safety interlocking-mounting AZ 17 for sliding door



Description

	Weight	Article-No.
Safety interlocking-mounting AZ 17 for sliding door	62 g	1.73.4130

Angle for safety interlocking-mounting AZ 17 for sliding door



Comments

Countersink DIN 74 - M5 for
countersunk screw DIN 7991 - M5

Description

	Weight	Article-No.
Angle for safety interlocking-mounting AZ 17 for sliding door	30 g	1.73.4140

Sensor brackets



Application

For fastening of sensors



Assembly

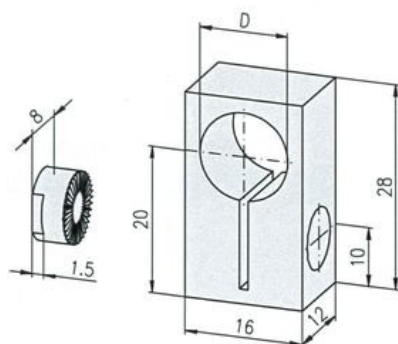
The toothed lock washer is fixed in profile slot and guarantees a reliable positioning

Technical data

material: PA, black

Fastening elements

cap-screw DIN 6912, M4



Description	D	Weight	Article-No.
Sensor bracket 8	Ø6.5	5.5 g	1.73.80806
Sensor bracket 8	Ø8	5.4 g	1.73.80808
Sensor bracket 8	Ø12	4.6 g	1.73.80812

Electrical installation trunking



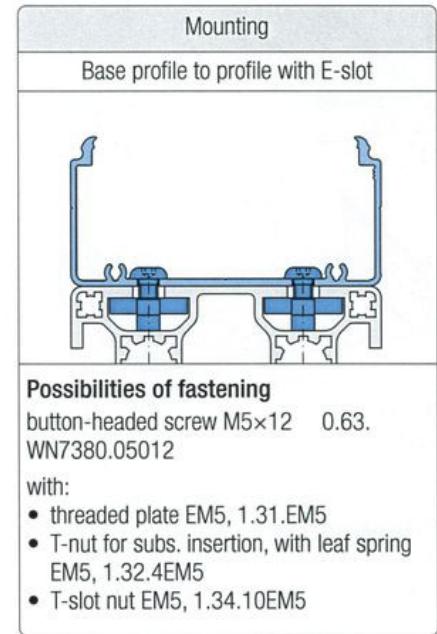
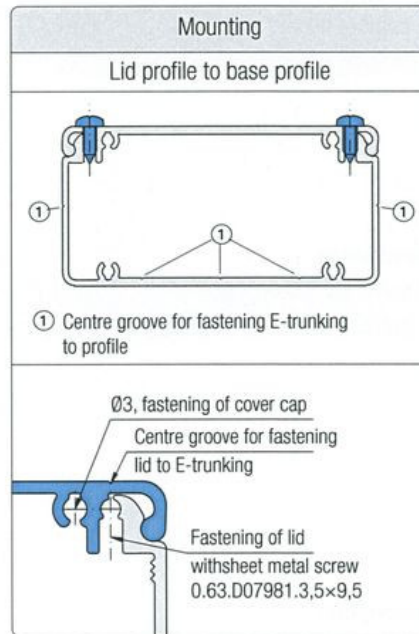
Application

Installation trunking for electrical and pneumatic lines

Technical data

material: aluminium

surface: natural anodised



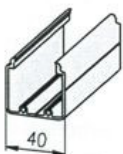
E-trunking



Description	Weight	Article-No.
E-trunking 30×30, bar 6 m	2.28 kg	1.19.203030G.60
 E-trunking 30×30, cut to length	0.38 kg/m	1.19.203030G-A00A00/... /... = length in mm



Description	Weight	Article-No.
E-trunking 40×20, bar 6 m	1.80 kg	1.19.204020G.60
 E-trunking 40×20, cut to length	0.30 kg/m	1.19.204020G-A00A00/... /... = length in mm



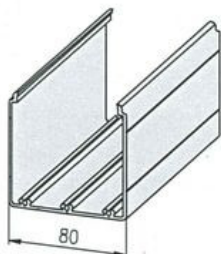
Description	Weight	Article-No.
E-trunking 40×40, bar 6 m	3.66 kg	1.19.204040G.60
 E-trunking 40×40, cut to length	0.61 kg/m	1.19.204040G-A00A00/... /... = length in mm



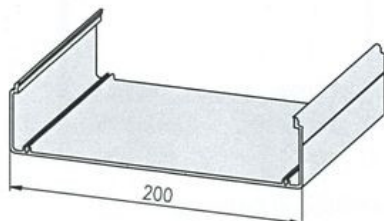
Description	Weight	Article-No.
E-trunking 40×80, bar 6 m	7.20 kg	1.19.204080G.60
 E-trunking 40×80, cut to length	1.20 kg/m	1.19.204080G-F00F00/... /... = length in mm



Description	Weight	Article-No.
E-trunking 80×40, bar 6 m	5.10 kg	1.19.208040G.60
 E-trunking 80×40, cut to length	0.85 kg/m	1.19.208040G-F00F00/... /... = length in mm



Description	Weight	Article-No.
E-trunking 80×80, bar 6 m	9.30 kg	1.19.208080G.60
 E-trunking 80×80, cut to length	1.55 kg/m	1.19.208080G-F00F00/... /... = length in mm



Description	Weight	Article-No.
E-trunking 200×50, bar 6 m	12.00 kg	1.19.220050G.60
 E-trunking 200×50, cut to length	2.0 kg/m	1.19.220050G-L00L00/... /... = length in mm

E-trunking, lids



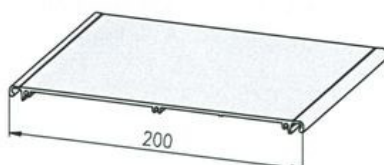
Description	Weight	Article-No.
E-trunking, lid 30, bar 6 m	1.44 kg	1.19.2030D.60
 E-trunking, lid 30, cut to length	0.24 kg/m	1.19.2030D-A00A00/... /... = length in mm



Description	Weight	Article-No.
E-trunking, lid 40, bar 6 m	2.10 kg	1.19.2040D.60
 E-trunking, lid 40, cut to length	0.35 kg/m	1.19.2040D-A00A00/... /... = length in mm

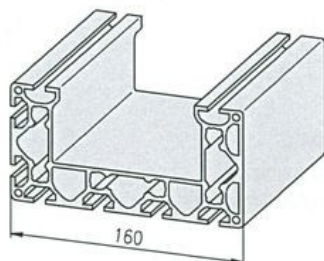


Description	Weight	Article-No.
E-trunking, lid 80, bar 6 m	3.54 kg	1.19.2080D.60
 E-trunking, lid 80, cut to length	0.59 kg/m	1.19.2080D-F00F00/... /... = length in mm



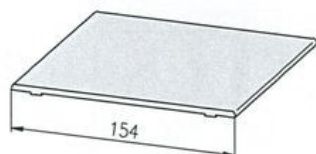
Description	Weight	Article-No.
E-trunking, lid 200, bar 6 m	9.00 kg	1.19.2200D.60
 E-trunking, lid 200, cut to length	1.50 kg/m	1.19.2200D-L00L00/... /... = length in mm

E-trunking



Description	Weight	Article-No.
Profile 80×160, 8E, SP, bar 6 m	47.40 kg	1.11.080160.89SP.60
 Profile 80×160, 8E, SP, cut to length	7.90 kg/m	1.11.080160.89SP-L00L00/... /... = length in mm

E-trunking, lid

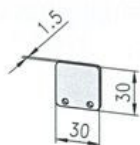


Description	Weight	Article-No.
Profile pre-cut lid 120, bar 6 m	10.80 kg	1.19.1101120.60
 Profile pre-cut lid 120, cut to length	1.80 kg/m	1.19.1101120-L00L00/... /... = length in mm

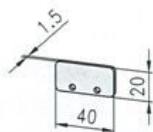
E-trunking, end plates

Technical data

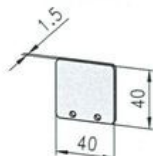
material: stainless steel
surface: pickled and passivated



Description	Weight	Article-No.
E-trunking, end plate 30×30	3.8 g	1.75.2030302



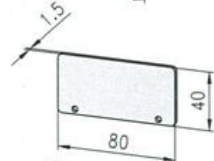
Description	Weight	Article-No.
E-trunking, end plate 40×20	3.8 g	1.75.2040202



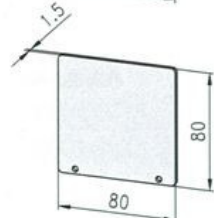
Description	Weight	Article-No.
E-trunking, end plate 40×40	6.8 g	1.75.2040402



Description	Weight	Article-No.
E-trunking, end plate 40×80	13.8 g	1.75.2040802



Description	Weight	Article-No.
E-trunking, end plate 80×40	13.8 g	1.75.2080402



Description	Weight	Article-No.
E-trunking, end plate 80×80	27.7 g	1.75.2080802

Electrical installation trunking for clips

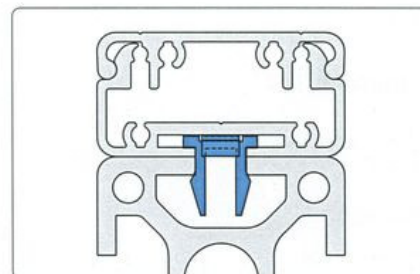
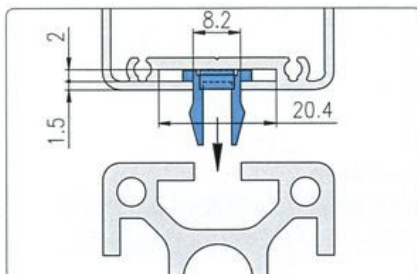


Application

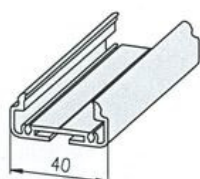
Clip-system for quick assembly of the E-trunking

Technical data

material: aluminium
surface: natural anodised



E-trunking, for clips



Description

E-trunking 40×20, Clips, bar 6 m

Weight

3.00 kg

Article-No.

1.19.214020G.60



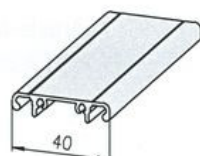
E-trunking 40×20, Clips, cut to length

0.50 kg/m

1.19.214020G-A00A00/...

/... = length in mm

E-trunking, lid



Description

E-trunking, lid 40, bar 6 m

Weight

2.10 kg

Article-No.

1.19.2040D.60



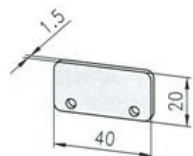
E-trunking, lid 40, cut to length

0.35 kg/m

1.19.2040D-A00A00/...

/... = length in mm

E-trunking, end plate



Technical data

material: stainless steel
surface: pickled and passivated

Description

E-trunking, end plate 40×20, Clips

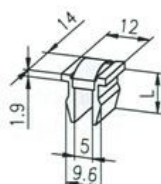
Weight

3.8 g

Article-No.

1.75.2140202

Clip for E-trunking



Technical data

material: Murytal C
colour: natural

Description

Clip E3

L

11

Weight

3.0 g

Article-No.

1.75.1000E3

Clip E4

12

3.0 g

1.75.1000E4

1.8 Panel elements



Corner elements for
wire net m. profile
➔ 8.02



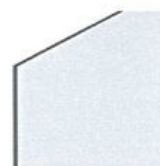
Corner element 33 for
wire net m. prf. 33x10
➔ 8.03



Mounting sockets
➔ 8.04



Chipboards
➔ 8.06



Solid plastic panels
➔ 8.07



Alu-plastic
composite panels
➔ 8.08



Structured-core
panels
➔ 8.09



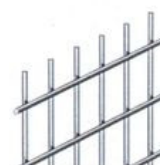
Edge protection
➔ 8.09



Polycarbonat
(Makrolon)
➔ 8.10



Wire net, steel
➔ 8.11

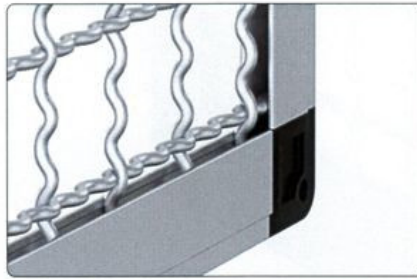


Grid, steel
➔ 8.11



Wire net, Alu
➔ 8.12

Corner elements for wire net mounting profile

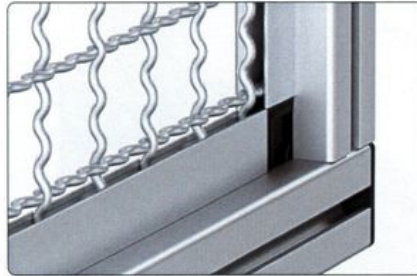


Application

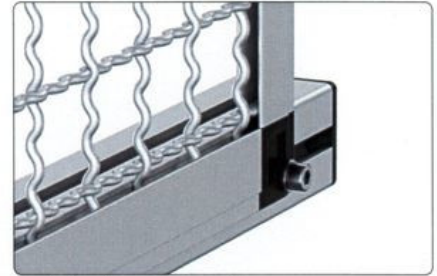
This mounting profile allows simple and safe installation of screens

Comments

Wire net mounting profile ➔ 1.19.1423...



Mounting in the profile slot

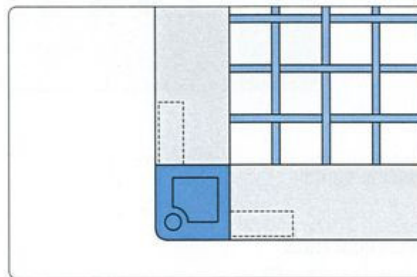
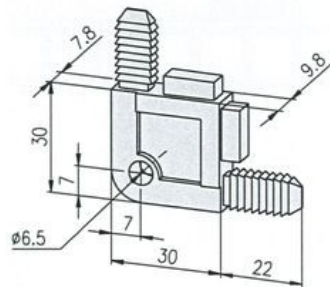


Fastening from the outside

Technical data

material: PA - GF
colour: black

Outside corner



Outside corner

Description

Corner element - outside

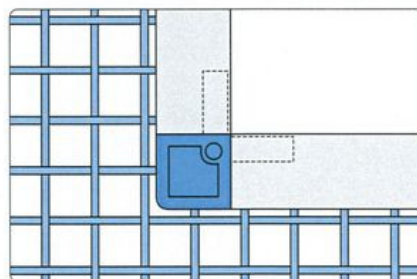
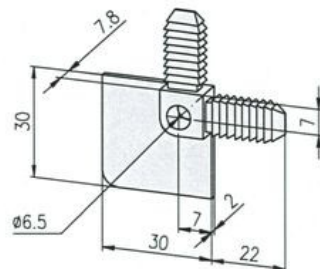
Weight

13 g

Article-No.

1.81.1010

Inside corner



Inside corner

Description

Corner element - inside

Weight

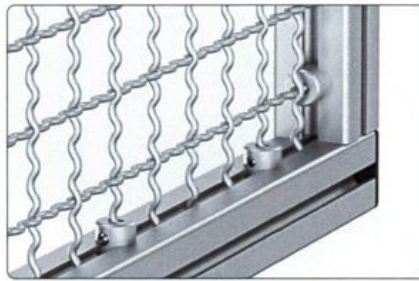
6 g

Article-No.

1.81.1020

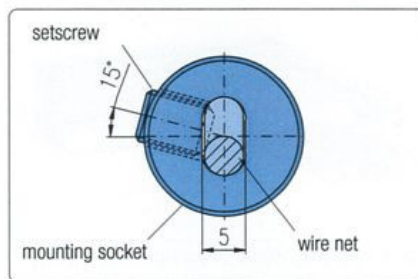
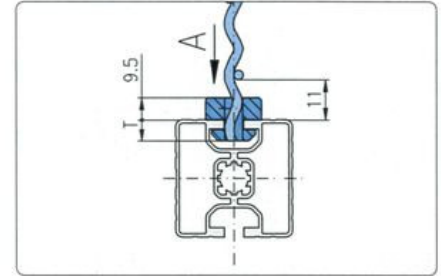
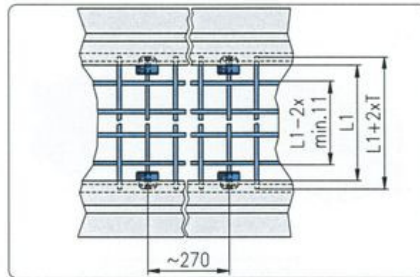
8

Mounting sockets



Application

For stable and vibration free fastening of wire nets



View „A“

Assembly

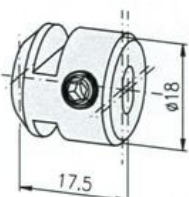
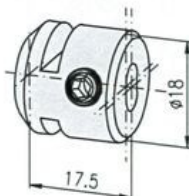
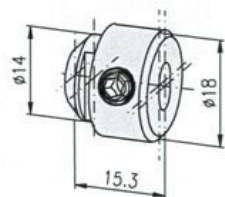
- plug terminal sockets at a distance of about 270 mm on the wire net
- push on profile
- rotate mounting sockets with headless setscrew DIN 913 M6×8 at an angle of 15°

Technical data

material:
mounting socket: aluminium, natural anodised
setscrew: steel, galvanised

Delivery unit

Mounting socket incl. setscrew

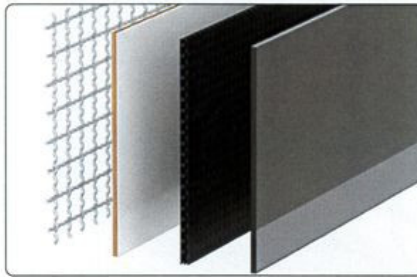


Description	T	Weight	Article-No.
Mounting socket, F	5	6 g	1.81.510F

Description	T	Weight	Article-No.
Mounting socket, E3	8	6 g	1.81.510E3

Description	T	Weight	Article-No.
Mounting socket, E4	8	6 g	1.81.510E4

Panel elements

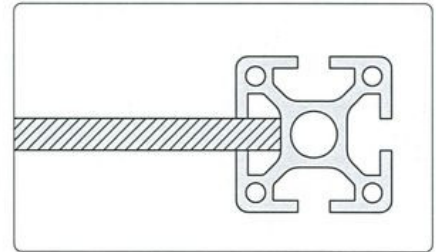


Application

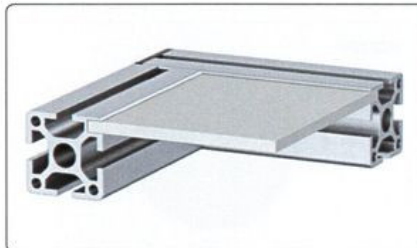
Panel elements to cover machine frames, work stations, partition walls.



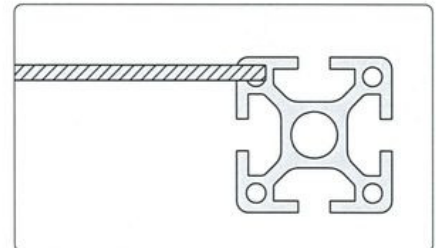
Panel element, fixing directly in the slot



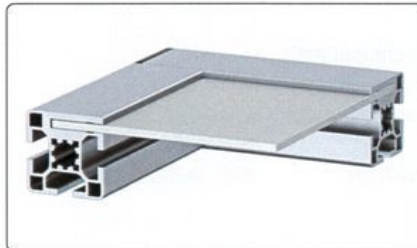
Installation accessories ➔ 1.41



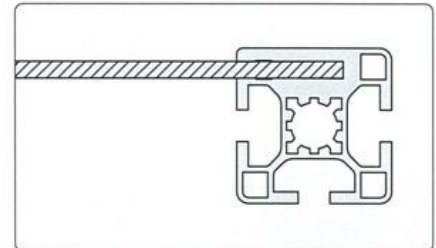
Panel elements close to the outer contour by subsequent slitting of the profiles



Special slits ➔ 1.1E.01



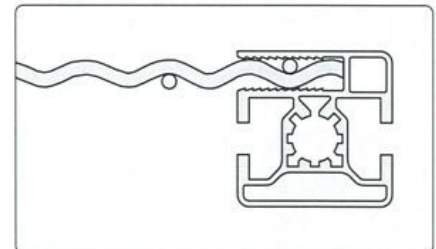
Panel elements close to the outer contour by applying panel profiles



Panel profiles ➔ 1.14



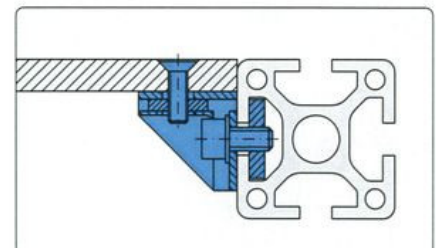
Panel elements close to the outer contour by applying wire net profiles



Wire net profiles ➔ 1.15



Panel elements close to the outer contour by fixing with angle or mounting block



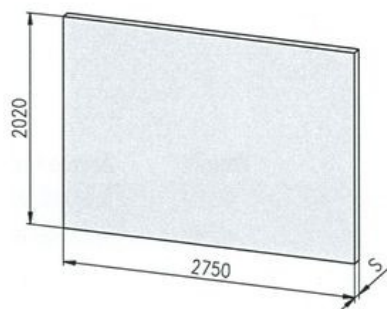
Mounting blocks ➔ 1.64

Chipboards

both sides coated with melamine

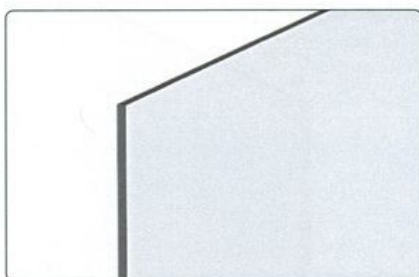


Technical data	
surface:	both sides coated with melamine
structure:	mini pearl
RAL 7035:	light grey
formaldehydmission:	complies to safety standards §9 paragraph 3
light-fastness:	point 6 as per DIN 53799
temperature resistance:	- 25°C to 130°C
chemical resistance:	resistant against organic food, light acid contents and alkaline solution, gasoline, oil, tested as per DIN 53799
chipboard:	high frequency glued laminated chipboard
Technical values on DIN 68765 and 53799	
bulk density:	approx. 700 kg/m ³
thickness tolerance:	+0.5 -0.3 mm
weight:	S = 8 mm 5.6 kg/m ² S = 19 mm 13.3 kg/m ²
cut to length:	1.82.□□□-99/□□□□×□□□□ 1.82.□□□-99/□□□□×□□□□ type 1.82.□□□-99/□□□□×□□□□ length×width in mm

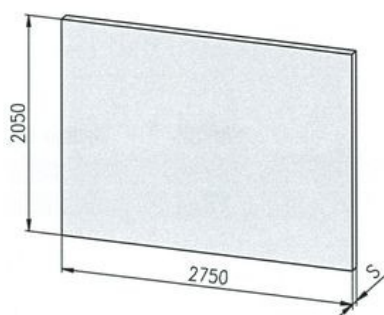


Description	S	RAL	Weight	Article No.
Chipboard	8	7035	32 kg	1.82.083.00
Chipboard	19	7035	75 kg	1.82.193.00

Solid plastic panels
coated with melamine

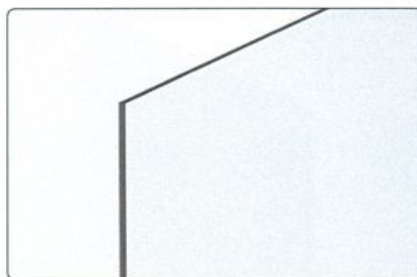


Technical data	
surface:	both sides coated with melamine
structure:	mini pearl
RAL 7035:	light grey
solid plastic panel:	made of Phenolplastic high pressure plate (HPL) of laminated material with all generally known merits of this substance.
Technical values on DIN 19926 and 53799	
bulk density:	approx. 1,500 kg/m ³
thickness tolerance:	-0.6 mm
weight:	S = 4 mm 6 kg/m ² S = 8 mm 12 kg/m ²
cut to length:	1.83.□□□-99/□□□□×□□□□ 1.83.□□□-99/□□□□×□□□□ type 1.83.□□□-99/□□□□×□□□□ length×width in mm



Description	S	RAL	Weight	Article No.
Solid plastic panel	4	7035	33 kg	1.83.043.00
Solid plastic panel	8	7035	66 kg	1.83.083.00

Alu-plastic composite panels

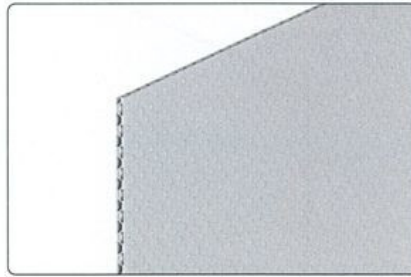


Technical data	
alu-plastic composite panel:	PE with alu coating on both sides
surface:	natural anodised, E6/EV1
temperature resistance:	- 50°C to 80°C
chemical resistance:	resistant against organic food, light acid contents and alkaline solutions, gasoline, oil
thickness tolerance:	-0.6 mm
weight:	S = 4 mm 5.5 kg/m ² S = 6 mm 7.3 kg/m ²
cut to length:	1.85.□□□-99/□□□□×□□□□ type 1.85.□□□-99/□□□□×□□□□ length×width in mm 1.85.□□□-99/□□□□×□□□□



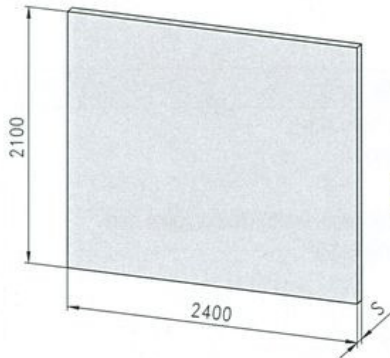
Description	S	Weight	Article No.
Alu-plastic composite panel	4	20.5 kg	1.85.040.00
Alu-plastic composite panel	6	27.2 kg	1.85.060.00

Structured-core panels

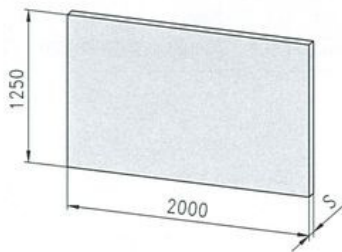


Technical data

material: PP
colour: black, grey, blue



Description	S	Colour similar to RAL	Weight	Article No.
Structured-core panel, ESD	5	black	5.1 kg	1.85.1.050.01E.00
Structured-core panel	5	grey 7001	5.1 kg	1.85.1.050.05.00
Structured-core panel	10	grey 7001	12.6 kg	1.85.1.100.05.00



Description	S	Colour similar to RAL	Weight	Article No.
Structured-core panel	5	blue 5017	2.8 kg	1.85.1.050.07.00

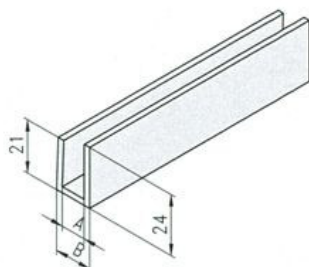
Edge protection



The ESD version is marked with a yellow stripe

Technical data

material: PP
colour: black
length: 2 m



Description	A	B	Weight	Article No.
Edge protection	5	9.8	226 g	1.85.1.K05.01.20
Edge protection, ESD	5	9.8	226 g	1.85.1.K05.01E.20
Edge protection	10	14.8	263 g	1.85.1.K10.01.20
Edge protection, ESD	10	14.8	263 g	1.85.1.K10.01E.20

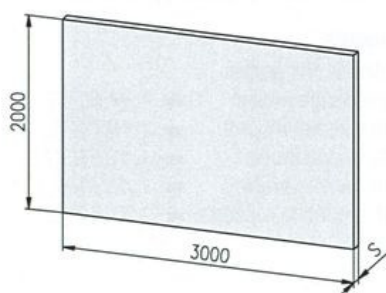
Polycarbonate (Makrolon)



Application

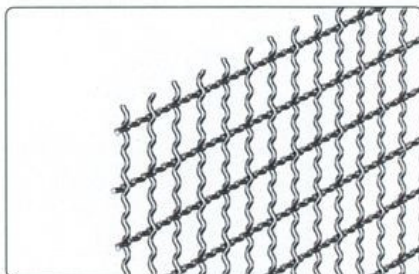
Doors, panels and guards with stringent security requirements as polycarbonate offers high impact resistance and strength against breakage

Technical data			
thickness tolerance:	+0.8 mm		
weight:	S = 4 mm	4.8 kg/m ²	
	S = 5 mm	6.0 kg/m ²	
	S = 6 mm	7.2 kg/m ²	
	S = 8 mm	9.6 kg/m ²	
cut to length:	1.87.□□□-99/□□□□×□□□□		type length×width in mm
	1.87.□□□-99/□□□□×□□□□		
	1.87.□□□-99/□□□□×□□□□		
Mechanical properties at 20 °C			
maximum extent of flex			68.7 MN/m ²
break / shear point			> 110.0 %
compression			78.5 MN/m ²
elasticity			2,256.0 MN/m ²
marring resistance			392.4 J/m ²
impact resistance (kJ/m ²)			no break
tensile strength			68.7 MN/m ²
Thermal properties			
temperature distortion according to 'Vicat'			170 °C
melting point			170 °C
temperature range under static load			-100 °C to 130 °C



Description	S	Colour	Weight	Article No.
Polycarbonate	4	transparent	28.8 kg	1.87.041.00
Polycarbonate	4	UV bronze 2850	28.8 kg	1.87.042.00
Polycarbonate	5	transparent	36.0 kg	1.87.051.00
Polycarbonate	5	UV bronze 2850	36.0 kg	1.87.052.00
Polycarbonate	6	transparent	43.2 kg	1.87.061.00
Polycarbonate	6	UV bronze 2850	43.2 kg	1.87.062.00
Polycarbonate	8	transparent	57.6 kg	1.87.081.00
Polycarbonate	8	UV bronze 2850	57.6 kg	1.87.082.00

Wire net, steel



Application

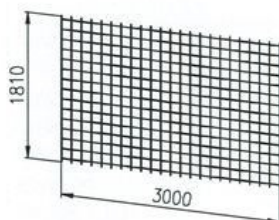
For protective coverings and partition walls

Comments

Mounting in the profile:

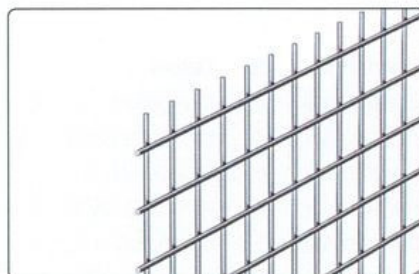
- with sponge rubber ➔ 1.41.6□□
- with wire net m. prof. ➔ 1.19.1423...
- with wedge profile ➔ 1.41.51E□.□
- with framing profile ➔ 1.41.710.□
- with mounting sockets ➔ 1.81.510□□

Technical data			
material:	steel		
surface:	galvanised		
weight:	4×30×30 mm	27 kg/plate	
	4×40×40 mm	24 kg/plate	
size of plate:	3,000×1,810 mm		
cut to length:	1.88.□□□-99/□□□□×□□□□		type length×width in mm
	1.88.□□□ 99/□□□□×□□□□		
	1.88.□□□-99/□□□□×□□□□		



Description	Weight	Article-No.
Wire net, steel 4×30×30	27 kg	1.88.143030.00
Wire net, steel 4×40×40	24 kg	1.88.144040.00

Grid, steel welded



Application

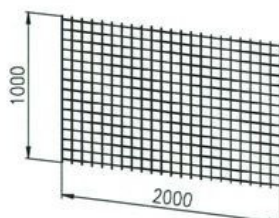
For protective coverings and partition walls

Comments

Mounting in the profile:

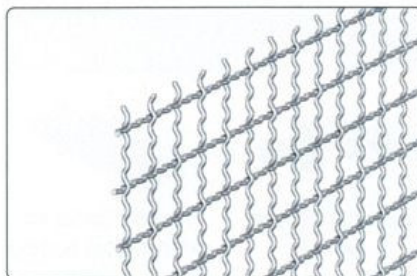
- with sponge rubber ➔ 1.41.6□□
- with wire net m. prof. ➔ 1.19.1423...
- with wedge profile ➔ 1.41.51E□.□
- with framing profile ➔ 1.41.710.□
- with mounting sockets ➔ 1.81.510□□

Technical data			
material:	steel		
surface:	electrogalvanised		
weight:	3×25×25 mm	8.9 kg/plate	
	4×40×40 mm	9.8 kg/plate	
size of plate:	2,000×1,000 mm		
cut to length:	1.88.□□□-99/□□□□×□□□□		type length×width in mm
	1.88.□□□ 99/□□□□×□□□□		
	1.88.□□□-99/□□□□×□□□□		



Description	Weight	Article-No.
Grid, steel 3×25×25	8.9 kg	1.88.232525.00
Grid, steel 4×40×40	9.8 kg	1.88.244040.00

Wire net, Alu



Application

For protective coverings and partition walls

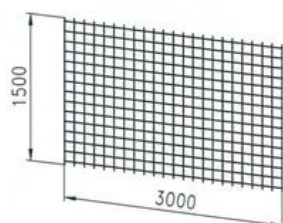
Comments

Mounting in the profile:

- with sponge rubber  1.41.6□□
- with wire net m. prof.  1.19.1423...
- with wedge profile  1.41.51E□.□
- with framing profile  1.41.710.□
- with mounting sockets  1.81.510□□

Technical data

material:	Aluminium	
surface:	bare	
weight:	3×20×20 mm	1.85 kg/m ²
	4×30×30 mm	2.25 kg/m ²
size of plate:	3,000×1,500 mm	
cut to length:	1.88.□□□-99/□□□□×□□□□	
	1.88.□□□-99/□□□□×□□□□	type
	1.88.□□□-99/□□□□×□□□□	length×width in mm



Description

Description	Weight	Article-No.
Wire net, Alu 3×20×20	8.3 kg	1.88.322.00
Wire net, Alu 4×30×30	10.1 kg	1.88.433.00

1.9 Washers, screws and tools



Self locking washers
➡ 9.02 - 9.03



Button head screws
➡ 9.04



Lens head screws
➡ 9.04



Press in device for
knurled cross bushing
➡ 9.05



Hexagonal tools
➡ 9.05



Torx® tools
➡ 9.06



Drill jigs
➡ 9.08, 9.10



Drills
➡ 9.09, 9.11

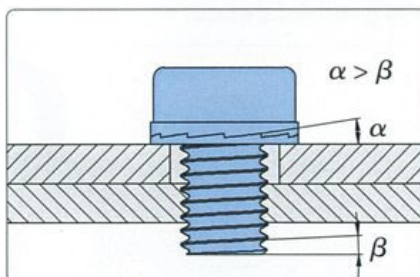


Milling cutters
➡ 9.09, 9.11



Screw taps
➡ 9.13 - 9.14

Self locking washers DIN 25201

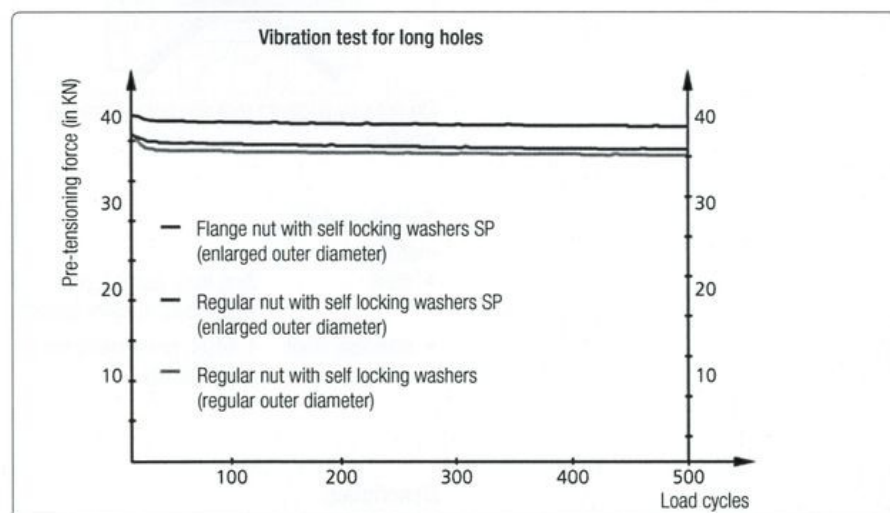


The cam angle α of the washers is larger than the thread pitch β of the bolt.

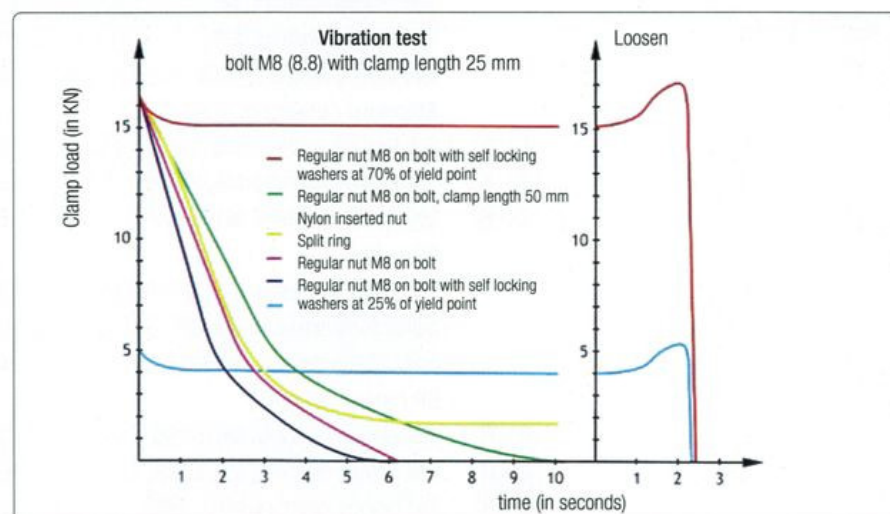
Advantages

- Maximum safety during the tightening of the screw
- Reliable connection under extreme vibration and dynamic loads
- Ease of assembly and disassembly
- Positive locking at low and high preload levels
- Same temperature characteristics as standard nut & bolt
- Surface protection
- Reusable

The outside dimensions of the locking washer guarantees it's effectiveness even when used in countersunk holes. Washers with enlarged outer diameter (SP) in combination with flanged nuts / bolts are recommended for use on large / long holes, painted surfaces or soft materials, e.g. aluminium.

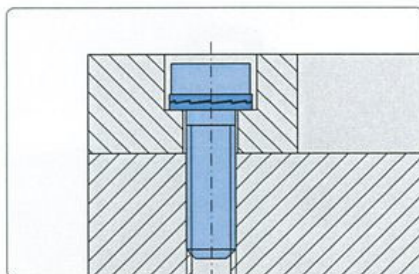


Junker vibration test for bolt M12 (8.8)



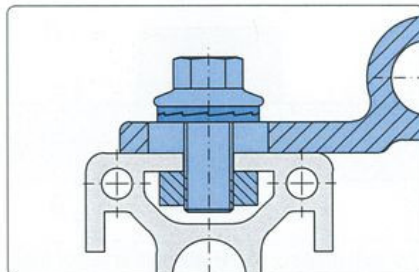
Test results

Self locking washers standard

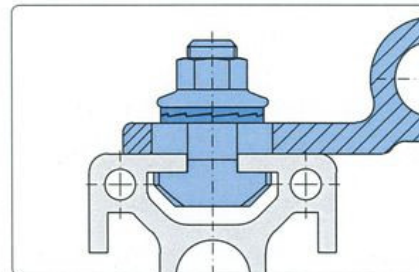


Cylindrical head screw DIN 6912 with self locking washers, standard

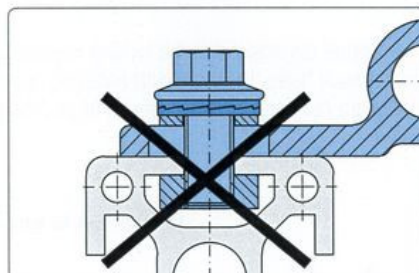
Self locking washers SP (enlarged outer diameter)



Hexagonal flange head screw DIN 6912 and self locking washers SP



T-screw with flange nut DIN 6923 and self locking washers SP

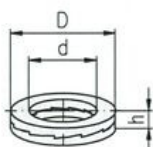


Do not use washers that are not secured in position

Technical data

material:

- steel: Zinc flake coated, pre-assembled in pairs (glued)
- stainless steel: 1.4404, pre-assembled in pairs (glued)



Description	D	h	d	Weight	Article-No.
Standard / steel					
Self locking washers, M6	10.8	1.8	6.5	0.7 g	0.62.D2520106
Self locking washers, M8	13.5	2.5	8.7	1.5 g	0.62.D2520108
Self locking washers, M10	16.6	2.5	10.7	2.3 g	0.62.D2520110
Standard / stainless steel					
C R Self locking washers, M6, SS	10.8	2.2	6.5	0.9 g	0.62.D2520106SS
C R Self locking washers, M8, SS	13.5	2.2	8.7	1.2 g	0.62.D2520108SS
C R Self locking washers, M10, SS	16.6	2.2	10.7	1.6 g	0.62.D2520110SS
SP / steel					
Self locking washers, M6, SP	13.5	2.5	6.5	2.0 g	0.62.D2520106SP
Self locking washers, M8, SP	16.6	2.5	8.7	2.9 g	0.62.D2520108SP
Self locking washers, M10, SP	21.0	2.5	10.7	4.4 g	0.62.D2520110SP
SP / stainless steel					
C R Self locking washers, M6, SPSS	13.5	2.2	6.5	1.6 g	0.62.D2520106SPSS
C R Self locking washers, M8, SPSS	16.6	2.2	8.7	2.4 g	0.62.D2520108SPSS
C R Self locking washers, M10, SPSS	21.0	2.2	10.7	3.7 g	0.62.D2520110SPSS

Button head screws

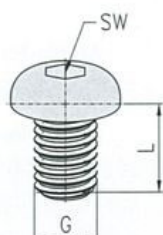


Application

Button head screws for the mounting of additional elements

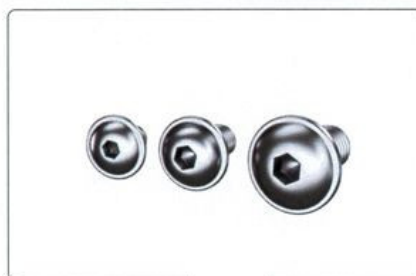
Technical data

material: steel
surface: galvanised



Description	G×L	SW	Weight	Article-No.
Button head screw	M5×12	3	2.4 g	0.63.WN7380.05012
Button head screw	M8×12	5	6.5 g	0.63.WN7380.08012
Button head screw	M8×18	5	8.5 g	0.63.WN7380.08018
Button head screw	M8×30	5	12.6 g	0.63.WN7380.08030

Lens head screws



Application

Lens head screws for the mounting of additional elements

Technical data

material: steel
surface: galvanised



Description	G×L	SW	Weight	Article-No.
Lens head screw	M5×6	3	2.0 g	0.63.WN7381.05006
Lens head screw	M5×8	3	2.0 g	0.63.WN7381.05008
Lens head screw	M6×10	4	3.0 g	0.63.WN7381.06010
Lens head screw	M6×12	4	4.0 g	0.63.WN7381.06012
Lens head screw	M8×12	5	8.0 g	0.63.WN7381.08012
Lens head screw	M8×16	5	9.0 g	0.63.WN7381.08016

Press in device for knurled cross bushing



Technical data

Base body:

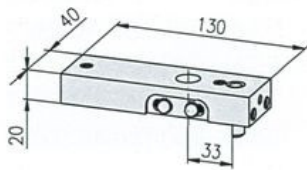
- material: aluminium
- surface: natural anodised

Axle bolt, spring:

- material: stainless steel

Other:

- material: steel
- surface: galvanised



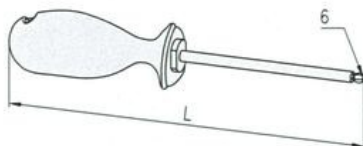
Description	Weight	Article-No.
Press in device for knurled cross bushing	310.0 g	1.98.11.21.B00R

Single parts	Pcs	Weight	Article-No.
Base body	1	216.0 g	1.98.11.21.B00R-01
Stopping pin	1	21.2 g	1.99.01112-05
Set screw for stop pin	1	1.8 g	1.99.01112-06
Dowel pin ISO 8752 (DIN 1481), 8×24 (for drill jig)	2	6.5 g	0.69.I08752.08024
Axle bolt complete, Ø8g 6×35 mm	2	15.6 g	1.98.11.21.B00R-05
Hex-socket set screw, DIN 913, M8×25	4	6.6 g	0.63.D00913.08025
Spring for T-screw, E	4	0.1 g	1.34.E00-02

Hexagonal tools



Description	L	Drive	Weight	Article-No.
Hexagonal bit with ballhead wrench size 6	100	6	23 g	1.98.IN.SW6.100

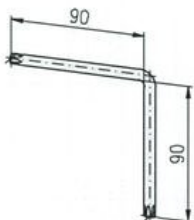


Description	L	Weight	Article-No.
Hexagonal screwdriver with ballhead wrench size 6	215	122 g	1.98.IN.SW6.215

Torx® tools


Technical data

material: steel, hardened
surface: nickel-plated


Description

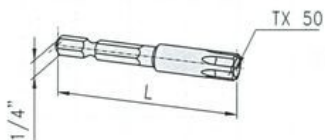
Tx screw driver for TX 40 screws

Weight

54 g

Article-No.

1.98.T40.090090


Description

Screw bit TX 50

L

50

Drive

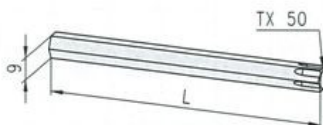
C 6.3 (1/4")

Weight

16 g

Article-No.

1.98.TX50A1-4


Description

Screw bit TX 50

L

95

Drive

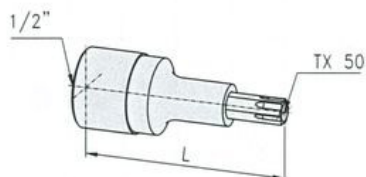
9

Weight

49 g

Article-No.

1.98.TX50A09


Description

Screwdriver insert TX 50

L

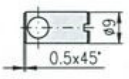
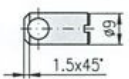
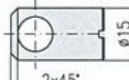
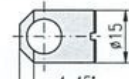
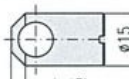
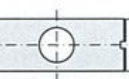
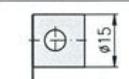
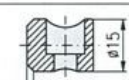
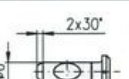
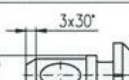
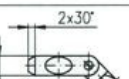
55

Weight

72 g

Article-No.

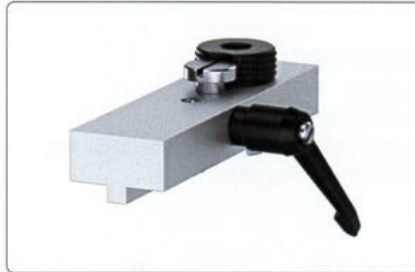
1.98.TX50A1-2

Cross bushings / Anchors			Drill								Milling cutter							
			MK		cylindrical shaft								cylindrical shaft					
			1.99.03115452	1.99.03115454	1.99.0310800	1.99.0310645	1.99.03109000	1.99.03109452	1.99.0311245	1.99.03215452	1.99.03215454	1.99.0210645	1.99.02109000	1.99.02109452	1.99.02112451	1.99.02115000	1.99.02115452	1.99.02115454
Slot	Description	drill-Ø chamfer ×45° shaft-Ø	15.25 1.5 MK	15.25 3.5 MK	6/8.5 - 8.5	6.2 2.0 6.2	9.2 - 9.2	9.2 1.5 9.2	12.2 2.0 12.2	15.25 1.5 12.0	15.25 3.5 12.0	6.2 2.0 10.0	9.2 - 10.0	9.2 1.5 10.0	12.2 1.0 12.0	15.25 - 16.0	15.25 1.5 16.0	15.25 3.5 16.0
Cross bushing																		
H F E	Standard						●						●					
H F E	for profile 20×20, soft							●						●				
H F E	Standard		●							●						●	●	
H F E	for profile • 30×30, soft • 30×100 • 30×150			●							●							●
H F E	for profile 40×40, 2E 45°, LP			●							●							●
H F E	for ST-Connector, profile 30×150		●	●						●	●					●	●	●
H F E	for SE-Connector															●		
H F E	for ST-Connector		●							●						●	●	
H F E	for ST-Connector with anchor, screw-type														●			
Anchor																		
H F E	for connector, parallel					●						●						
H F E	for connector, parallel								●						●			
H F E	for connector, miter, hinge				●													

Drill jigs for profiles with H-slots



Drill jig with setscrew



Drill jig with clamping lever

Application

Tools for precise machining of connection bore

- for drilling machine: - drill jig
- drill
- for milling machine: - milling cutter
- the drill jig is located and fastened in the profile slot
- suitable for any profile angle cut

Technical data

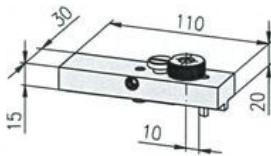
Base body:

- material: aluminium
- surface: natural anodised

Drill bush:

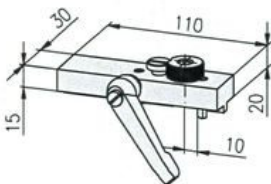
- material: steel
- surface: hardened and polished

Drill jig with setscrew



Description	Weight	Article-No.
Drill jig H with setscrew	189 g	1.99.01011
Single parts	Weight	Article-No.
Base body	120 g	1.99.01012-01
Drill bush for cross bushing, Ø9.2	50 g	1.99.01012-03
Safety screw for drill bush, M6×4	6 g	1.99.01012-04
Stop pin	2 g	1.99.01012-05
Connector	11 g	1.20.3-2H5
Accessories		
Drill bush for parallel-anchor, Ø6.2	43 g	1.99.01012-02

Drill jig with clamping lever



Description	Weight	Article-No.
Drill jig H with clamping lever	225 g	1.99.01012
Single parts	Weight	Article-No.
Base body	120 g	1.99.01012-01
Drill bush for cross bushing, Ø9.2	50 g	1.99.01012-03
Safety screw for drill bush, M6×4	6 g	1.99.01012-04
Stop pin	2 g	1.99.01012-05
Connector	11 g	1.20.3-2H5
Clamping lever 65, for connector, M6×20	36 g	1.29.650620
Accessories		
Drill bush for parallel-anchor, Ø6.2	43 g	1.99.01012-02

Tools for profiles with H-slots



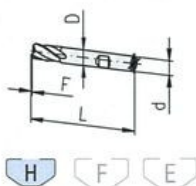
Drill, Milling cutter

Comments

Selection range ➡ 9.07

Milling cutter

- parallel-anchor
- cross bushing



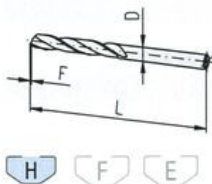
Technical data

material: HSS
3 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	d	Weight	Article-No.
Milling cutter f. par.-anchor	Ø6.2	60	2.0×45°	8	13 g	1.99.0210645
Milling cutter f. cross bush.	Ø9.2	70	without	10	34 g	1.99.0210900
Milling cutter f. cross bush.	Ø9.2	70	1.5×45°	10	34 g	1.99.02109452

Drill

- parallel-anchor
- cross bushing



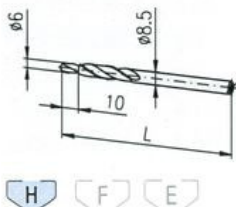
Technical data

material: HSS
2 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	Weight	Article-No.
Drill for parallel-anchor	Ø6.2	100	2.0×45°	16 g	1.99.0310645
Drill for cross bushing	Ø9.2	120	without	43 g	1.99.03109000
Drill for cross bushing	Ø9.2	120	1.5×45°	43 g	1.99.03109452

Drill

for miter anchor



Technical data

material: HSS
2 cutting edges
cutting geometry for aluminium machining

Application

To drill core hole

Comments

Machining instruction ➡ 2.10, 1.2A

Description	D	L	Weight	Article-No.
Drill for miter anchor	Ø8.5	120	34 g	1.99.0310800

Drill jigs for profiles with F- and E-slots



Drill jig with setscrew



Drill jig with clamping lever

Application

Tools for precise machining of connection bore

- for drilling machine: - drill jig
- drill
- for milling machine: - milling cutter
- the drill jig is located and fastened in the profile slot
- suitable for any profile angle cut

Technical data

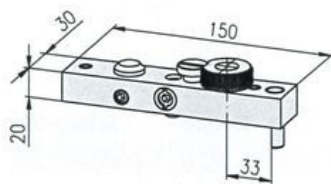
Base body:

- material: aluminium
- surface: natural anodised

Drill bush:

- material: steel
- surface: hardened and polished

Drill jig with setscrew

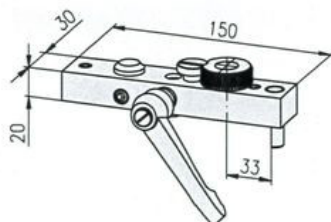


Description	Weight	Article-No.
Drill jig FE with setscrew	375 g	1.99.01111
Single parts		
	Weight	Article-No.
Base body	188 g	1.99.01112-01
Drill bush for cross bushing, Ø15.25	105 g	1.99.01112-03
Safety screw for drill bush, M8×5.5	11 g	1.99.01112-04
Stop pin	19 g	1.99.01112-05
Setscrew for stop pin	2 g	1.99.01112-06
Connector, parallel-high	30 g	1.21.31-2F5
Anchor	20 g	1.21.A2E5

Accessories

Drill bush for parallel-anchor, Ø12.2	90 g	1.99.01112-02
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Drill jig with clamping lever



Description	Weight	Article-No.
Drill jig FE with clamping lever	438 g	1.99.01112
Single parts		
	Weight	Article-No.
Base body	188 g	1.99.01112-01
Drill bush for cross bushing, Ø15.25	105 g	1.99.01112-03
Safety screw for drill bush, M8×5.5	11 g	1.99.01112-04
Stop pin	19 g	1.99.01112-05
Setscrew for stop pin	2 g	1.99.01112-06
Connector, parallel-high	30 g	1.21.31-2F5
Anchor	20 g	1.21.A2E5
Clamping lever 80, for connector, M10×20	63 g	1.29.801020

Accessories

Drill bush for parallel-anchor, Ø12.2	90 g	1.99.01112-02
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Tools for profiles with F- and E-slots



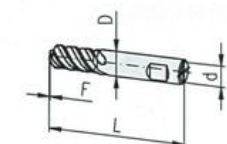
Drill, Milling cutter

Comments

Selection range ➔ 9.07

Milling cutter

- parallel-anchor
- cross bushing



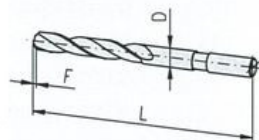
Technical data

material: HSS
3 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	d	Weight	Article-No.
Milling cutter f. cr. bush. ST, 4	Ø12.2	83	1×45°	Ø12	60 g	1.99.02112451
Milling cutter f. cross bush. SE	Ø15.2	93	without	Ø16	116 g	1.99.02115000
Milling cutter f. cross bush.	Ø15.2	93	1.5×45°	Ø16	116 g	1.99.02115452

Drill

for parallel-anchor



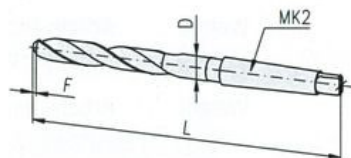
Technical data

material: HSS
2 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	Weight	Article-No.
Drill for parallel-anchor	Ø12.2	147	2×45°	93 g	1.99.0311245

Drill

for cross bushing



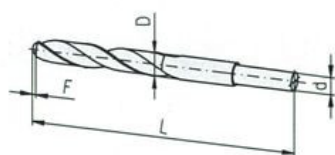
Technical data

material: HSS
2 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	Weight	Article-No.
Drill for cross bushing, MK2	Ø15.25	210	1.5×45°	224 g	1.99.03115452

Drill

for cross bushing



Technical data

material: HSS
2 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	d	Weight	Article-No.
Drill for cross bushing	Ø15.25	173	1.5×45°	Ø12	197 g	1.99.03215452

Tools for profiles with F- and E-slots

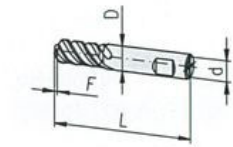


Drill, Milling cutter

Comments

Selection range ➡ 9.07

Milling cutter for cross bushing



Technical data

material: HSS

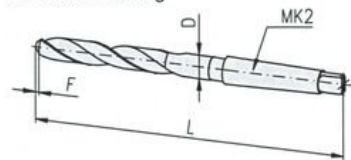
4 cutting edges

cutting geometry for aluminium machining

off-centre cutting edges

Description	D	L	F	d	Weight	Article-No.
Milling cutter f. cross bush.	Ø15.2	93	4.0×45°	Ø16	116 g	1.99.02115454

Drill for cross bushing



Technical data

material: HSS

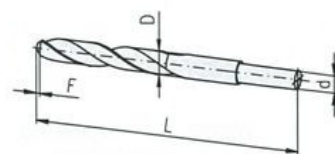
2 cutting edges

cutting geometry for aluminium machining

off-centre cutting edges

Description	D	L	F	Weight	Article-No.
Drill for cross bushing, MK2	Ø15.25	210	4.0×45°	224 g	1.99.03115454

Drill for cross bushing



Technical data

material: HSS

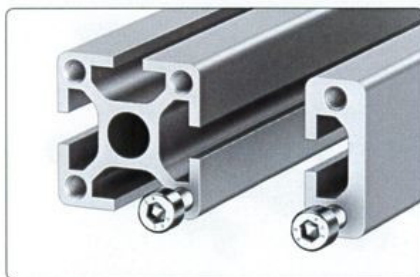
2 cutting edges

cutting geometry for aluminium machining

off-centre cutting edges

Description	D	L	F	d	Weight	Article-No.
Drill for cross bushing	Ø15.25	173	4.0×45°	Ø12	197 g	1.99.03215454

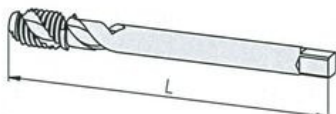
Screw taps for aluminium machining



Application

Mounting threads in profile centre core hole
Ø5 mm

Screw tap M6



16 20 30 40 45 50 60

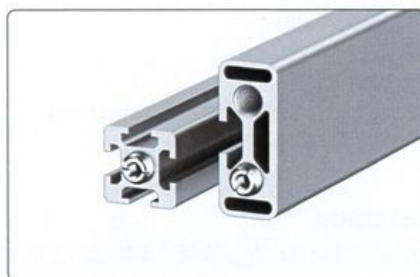
Technical data

material: HSS/E

machine threading tap:

- right hand cutting, 40° right spiral fluted
- enlarged chip flute
- 3-pitch thread start
- tolerance class: 6H

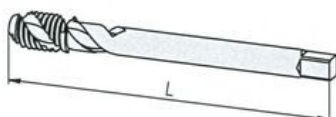
Description	G	L	Weight	Article-No.
Screw tap	M6	80	45 g	1.99.0406080



Application

Mounting threads in profile centre core hole
Ø6.2 mm

Screw tap M8



16 20 30 40 45 50 60

Technical data

material: HSS/E

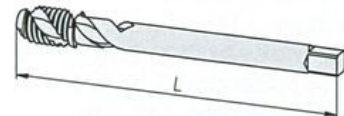
machine threading tap:

- right hand cutting, 40° right spiral fluted
- enlarged chip flute
- 3-pitch thread start
- tolerance class: 6H

Description	G	L	Weight	Article-No.
Screw tap	M8	90	52 g	1.99.0408090

Screw taps for aluminium machining

Screw tap M12



16 20 30 40 45 50 60



Application

Fastening thread in hollow chambers of profiles PG 50

Technical data

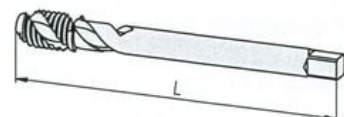
material: HSS/E

machine threading tap:

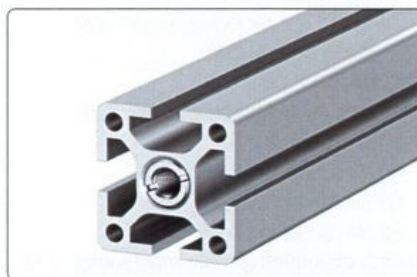
- right hand cutting, 40° right spiral fluted
- enlarged chip flute
- 2-pitch thread start
- tolerance class: 6H

Description	G	L	Weight	Article-No.
Screw tap	M12	110	65 g	1.99.0412110

Screw tap M14



H F E



Application

Mounting threads in profile centre core hole
Ø12 mm

Technical data

material: HSS/E

machine threading tap:

- right hand cutting, 40° right spiral fluted
- enlarged chip flute
- 2-pitch thread start
- tolerance class: 6H

Description	G	L	Weight	Article-No.
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Screw tap	M14	150	105 g	1.99.0414150

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