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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 (pg 1.02) 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.



Attention!


Important notice

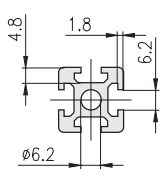
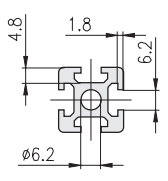

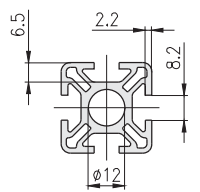
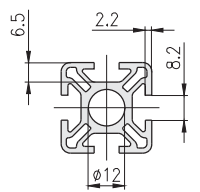

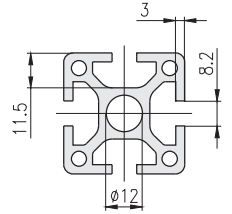
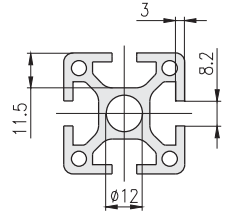

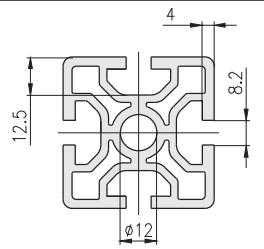
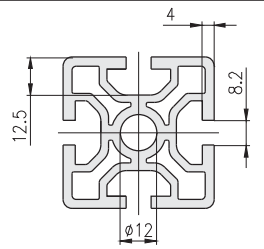


Abbreviations

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
X	extra heavy	profile characteristic: extra heavy type of construction
P	plain	profile characteristic: no ornamental slots

Special characters

<input type="checkbox"/>	Placeholder	Example	identifies the articles:
	Article-No.	1.41.5□□.□	1.41.5F0.1 1.41.5F0.2 1.41.5E0.1 1.41.5E0.2

	Example	Reference
	117	to catalogue page
	1.41	to article number group
	1.41.710.2	to single article
	1.41.5□□.□	to group of articles

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
						
E3-slot 		12.0	8.2	11.5	3.0	40
						
E4-slot 		12.0	8.2	12.5	4.0	45
						
						

Profiles

1. 1 □ . □□□□□□ . □□□□□□	Key
1. 1 □ . □□□□□□ . □□□□□□	Core hole-Ø ¹⁾
1. 1 □ . □□□□□□ . □□□□□□	Profile width
1. 1 □ . □□□□□□ . □□□□□□	Profile height (all, but special profiles)
1. 1 □ . □□□□□□ . □□□□□□	Number of degrees (round profiles)
1. 1 □ . □□□□□□ . □□□□□□	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 □ . □□□□□□ . □□ X	Version extra 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
- 5 = Pneumatic
- 7 = Angle
- 8 = Angle 45°
- 9 = Special

Connectors

- general

1. 2 □ . □□□□□□	Key	
1. 2 □ . □□□□□□	Core hole ¹⁾	¹⁾ 0 = 6.2 mm
1. 2 □ . □□□□□□	Profile width ²⁾	1 = 12 mm
1. 2 □ . □□□□□□	Head-variant ³⁾	²⁾ 2 = 20 mm
1. 2 □ . □□□□□□	Connection-variant ⁴⁾	3 = 30 mm
1. 2 □ . □□□□□□	Stainless	4 = 40 mm
1. 2 □ . □□□□ V □	Ground	45 = 45 mm
1. 2 □ . □□□□ E		5 = 50 mm
		6 = 60 mm
<pre> +--- □/□ +--- □/□ +--- □/□ </pre>	Special cases:	Parallel-connector across and high
		Profile width for cross bushing
		Profile width for anchor

- 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⁾ 1 = Standard
1. 2 □ . □□□□□□	Connection-variant ¹⁾	2 = Standard 90°
1. 2 □ . □□□□□□	Stainless	

-Oblique-bent anchor

1. 2 □ . □□□□□□ / □□□□□□	Key	
1. 2 □ . □□□ B □□ / □□□□□□	Oblique-connector, bent anchor	¹⁾ 1 = Standard
1. 2 □ . □□□□□□ / □□□□□□	Connection-variant ¹⁾	2 = Standard 90°
1. 2 □ . □□□□□□ / □□□□□□	Design L/R	
1. 2 □ . □□□□□□ / □□□□□□	Angle	
1. 2 □ . □□□□□□ / □□ V □	Stainless	
1. 2 □ . □□□□□□ / □□□□ E	Ground	

-Miter-hinge

1. 2 □ . □□□□□□	Key	
1. 2 □ . □□ G □□	Miter-connector, hinge	¹⁾ 1 = Standard
1. 2 □ . □□□□□□	Connection-variant ¹⁾	2 = Standard 90°
1. 2 □ . □□□□□□	Stainless	

-Miter-bent anchor

1. 2 □ . □□□□□□ / □□□□□□	Key	
1. 2 □ . □□ G □□ / □□□□□□	Miter-connector	¹⁾ 1 = Standard
1. 2 □ . □□□ B □□ / □□□□□□	Bent design	2 = Standard 90°
1. 2 □ . □□□□□□ / □□□□□□	Connection-variant ¹⁾	
1. 2 □ . □□□□□□ / □□□□□□	Angle	
1. 2 □ . □□□□□□ / □□ V □	Stainless	

-Screw-type

1. 2 □ . □□□□□□ / □□□□□□	Key	
1. 2 □ . □□ S □□□ / □□□□□□	Screw-type-connector	¹⁾ 1 = Standard
1. 2 □ . □□□□□□ / □□□□□□	Type of anchor ¹⁾	2 = Parallel 20 mm
1. 2 □ . □□□□ M □ / □□□□□□	Thread	3 = Parallel 30 mm
1. 2 □ . □□□□□□ / □□□□□□	Thread-Ø	4 = Parallel 40 mm
1. 2 □ . □□□□□□ / □□□□□□	Screw special length	5 = Parallel 50 mm

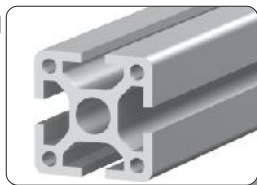
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    |
    +--- □/□
    |
    +--- □/□
    |
    +--- □/□
        
```

Special cases: Screw-type connector parallel across and high
 Profile width for cross bushing
 Profile width for anchor

16	plain																	
		<p>16x40</p> <p>↔ 12</p>		<p>16x40 16x80 16x160</p> <p>↔ 12</p>														
20	plain																	
		<p>20x20 20x40 40x40</p> <p>↔ 13</p>			<p>20x40 40x40</p> <p>↔ 14</p>			<p>20x10 20x30 20x30</p> <p>↔ 15</p>										
30	plain																	
		<p>30x30 30x60 30x100 30x150 60x60</p> <p>↔ 16 ↔ 17 ↔ 18 ↔ 19</p>							<p>30x100</p> <p>↔ 18</p>									
40	plain																	
		<p>40x40 40x60 40x80 40x160 80x80</p> <p>↔ 20 / 26 ↔ 21 / 26 ↔ 22 ↔ 23 ↔ 24 / 27</p>																
45	plain																	
		<p>45x45 45x60 45x90</p> <p>↔ 28 ↔ 29 ↔ 30</p>										<p>90x90</p> <p>↔ 32</p>						
50	plain																	
		<p>E4</p>																
60	plain																	
		<p>60x60</p> <p>↔ 32</p>																

plain



without grooves

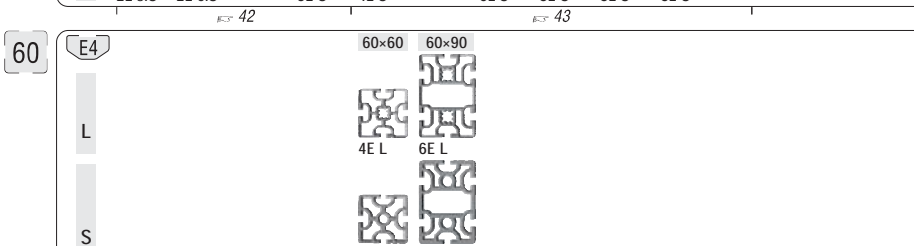
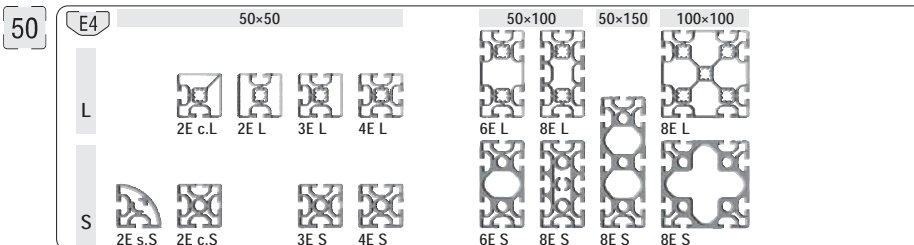
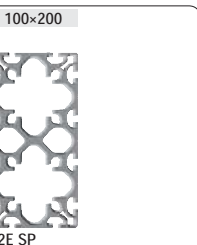
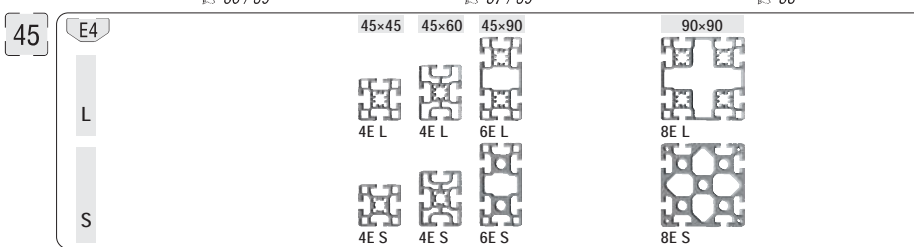
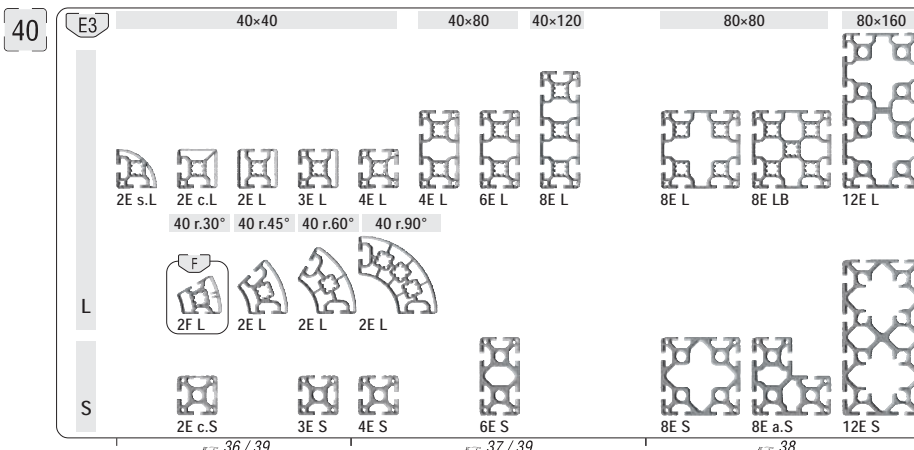
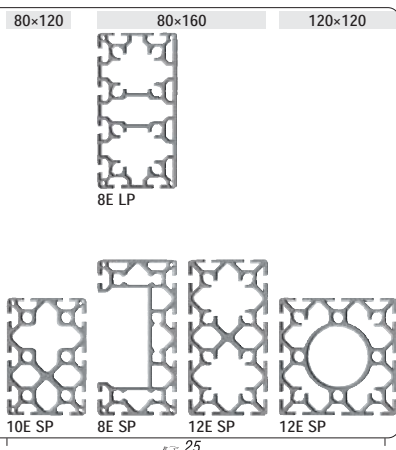
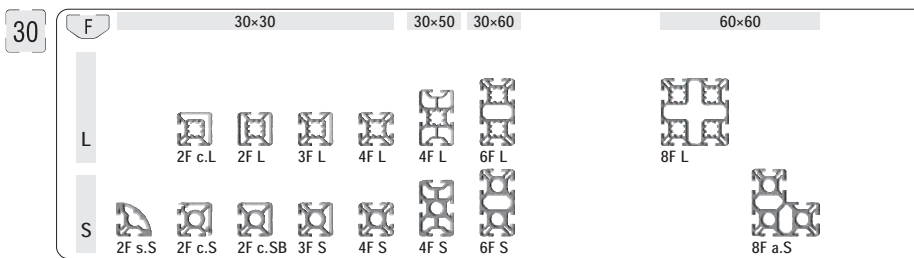
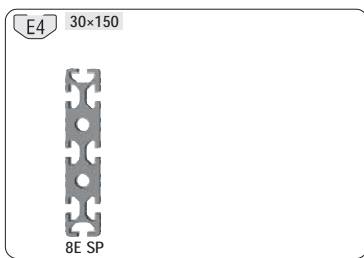


with grooves

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

L	light
S	heavy
X	extra heavy
P	plain
B	type B

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



S
plain

Profiles

Round	hexagonal	octagonal
48 round	30 hexag. 40 hexag.	30 octag. 40 octag.

33

Available only in USA!

Inch profiles

1
plain

F 1"x1" 2"x2"

L

S

1.5
plain

E 1.5"x1.5" 1.5"x3" 3"x3" 3"x6"

L

S

S
30
plain

Safety barrier profiles

Panel profiles	Wire net profiles
<p>F 30x30 30x50</p> <p> </p> <p> </p> <p> </p>	<p>30x30 30x45</p> <p> </p>
<p>E3 40x40 40x60 60x80</p> <p> </p>	<p>40x40 40x60</p> <p> </p>
<p>E4 50x50</p> <p> </p>	

45-47 48

S
30
plain

Tube profiles

30x60 30x100

L

49

S
plain

Roller profiles

50

S
40
plain

Telescopic profiles

E3 40x40 80x80 120x120 160x160

S

51

S
plain

E-trunking profiles

Lid 40 Lid 80 Lid 200 Profile pre-cut lid 120

for clips

58 59

Profile pre-cut lids

52 Profile pre-cut lid 30 Profile pre-cut lid 40 Profile pre-cut lid 50 Profile pre-cut lid 120

Tubes

55 Tube Ø20×2 Tube Ø30×3 Tube Ø40×4

Hollow profiles

52 Hollow profile Ø20 Hollow profile Ø30 Hollow profile Ø40

Hinge profiles
1.5 mm

55 Type A, PG 20 - 1.5 Type A, PG 30 - 1.5 Type A, PG 40 - 1.5 Type A, PG 50 - 1.5

Base profiles

52 Base profile Ø20 Base profile Ø30 Base profile Ø40

Hinge profiles
2.0 mm / 5.0 mm

55 Type B, 40 mm - 2.0 Type B, 50 mm - 2.0 Type C, 30 mm - 2.0 Ø12 5.0

Angle profiles

53 Angle profile 48×48 Angle profile 60×60 Angle profile 100×100

Hinge profiles
3.0 mm

56 Type A, PG 30 - 3.0 Type A, PG 40 - 3.0 Type A, PG 50 - 3.0 Type B, 50 mm - 3.0

Wire net mounting profiles

53 Wire net mounting profile Wire net mounting profile 33×10

T-Slot profiles
Steel

56 T-Slot profile, steel, F T-Slot profile, steel, E T-Slot profile, steel, subs. ins. F T-Slot profile, steel, subs. ins. E

Grab handle profiles

53 Grab handle profile Grab handle profile

T-Slot profiles
PA

56 T-Slot profile, PA, F T-Slot profile, PA, E

U-profiles, C-track

54 U-profile 25×25×2 U-profile 40 U-profile 45×90 C-track

Slide-slot profiles
PA

57 Slide-slot profile, PA, F Slide-slot profile, PA, E3 Slide-slot profile, PA, E4

Sliding profiles

54 Sliding profile 30×14 Sliding profile 30×26 Sliding profile 33×14 Sliding profile 33×26

Slide-slot profiles
PA

57 Slide-slot profile, PA, F/E3 Slide-slot profile, PA, F/E4 Slide-slot profile, PA, E3/E4

Sliding profile, Panel framing profile

54 Sliding profile 50×14 Panel framing profile 30×8,5

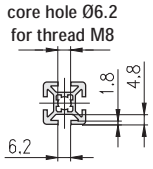


19" profiles

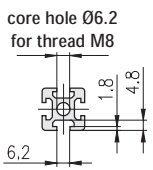






57 19" profile, PG 30 19" profile, PG 40 19" profile, PG 50



light				
Description	Profile 16×40, 1F, LP	Profile 16×40, 1E, LP	Profile 16×80, 2E, LP	Profile 16×160, 4E, LP
bar, 6 m	1.10.016040.14LP.60	1.09.016040.14LP.60	1.09.016080.24LP.60	1.09.016160.44LP.60
packing unit (number)	1.10.016040.14LP.61 (20)	1.09.016040.14LP.61 (20)	1.09.016080.24LP.61 (10)	1.09.016160.44LP.61 (5)
moment of inertia cm ⁴	$I_x = 4.4$ $I_y = 0.8$	$I_x = 4.3$ $I_y = 0.8$	$I_x = 30.7$ $I_y = 1.6$	$I_x = 221.0$ $I_y = 3.2$
moment of resistance cm ³	$W_x = 2.2$ $W_y = 0.8$	$W_x = 2.2$ $W_y = 0.8$	$W_x = 7.7$ $W_y = 1.6$	$W_x = 27.5$ $W_y = 3.2$
weight kg/m	$G = 0.87$	$G = 0.75$	$G = 1.49$	$G = 2.6$

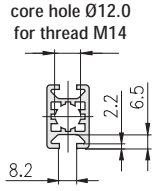


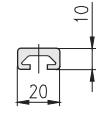
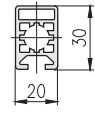
heavy				
Description	Profile 16×40, 1F, SP	Profile 16×40, 1E, SP	Profile 16×80, 2E, SP	Profile 16×160, 4E, SP
bar, 6 m	1.10.016040.14SP.60	1.09.016040.14SP.60	1.09.016080.24SP.60	1.09.016160.44SP.60
packing unit (number)	1.10.016040.14SP.61 (20)	1.09.016040.14SP.61 (20)	1.09.016080.24SP.61 (10)	1.09.016160.44SP.61 (5)
moment of inertia cm ⁴	$I_x = 5.3$ $I_y = 1.0$	$I_x = 7.2$ $I_y = 1.1$	$I_x = 48.3$ $I_y = 2.2$	$I_x = 307.0$ $I_y = 6.4$
moment of resistance cm ³	$W_x = 2.7$ $W_y = 1.0$	$W_x = 3.6$ $W_y = 1.1$	$W_x = 12.0$ $W_y = 2.2$	$W_x = 77.0$ $W_y = 3.2$
weight kg/m	$G = 1.0$	$G = 1.14$	$G = 2.11$	$G = 4.22$

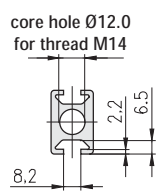

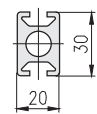
light				
core hole Ø6.2 for thread M8 			 	
Description			Profile 20×20, 2H, LP	
bar, 6 m			1.10.020020.23LP.60	
packing unit (number)			1.10.020020.23LP.61 (10)	
moment of inertia cm ⁴ moment of resistance cm ³ weight kg/m			$I_x = 1.0$ $I_y = 0.8$ $W_x = 1.0$ $W_y = 0.8$ $G = 0.58$	

heavy				
core hole Ø6.2 for thread M8 	 	 	 	
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 moment of resistance cm ³ weight kg/m	$I_x = 0.6$ $I_y = 0.6$ $W_x = 0.6$ $W_y = 0.6$ $G = 0.52$	$I_x = 1.0$ $I_y = 1.0$ $W_x = 0.9$ $W_y = 0.9$ $G = 0.68$		$I_x = 0.9$ $I_y = 0.9$ $W_x = 0.9$ $W_y = 0.9$ $G = 0.65$

light				
<p>core hole Ø6.2 for thread M8</p>	 		 	
Description	Profile 20×20, 4H, LP		Profile 20×40, 6H, LP	Profile 40×40, 8H, LP
bar, 6 m	1.10.020020.43LP.60		1.10.020040.64LP.60	1.10.040040.83LP.60
packing unit (number)	1.10.020020.43LP.61 (10)		1.10.020040.64LP.61 (10)	1.10.040040.83LP.61 (10)
moment of inertia cm ⁴	$I_x = 0.8$ $I_y = 0.8$		$I_x = 5.3$ $I_y = 1.4$	$I_x = 10.0$ $I_y = 10.0$
moment of resistance cm ³	$W_x = 0.8$ $W_y = 0.8$		$W_x = 2.6$ $W_y = 1.4$	$W_x = 5.0$ $W_y = 5.0$
weight kg/m	$G = 0.53$		$G = 0.9$	$G = 1.5$








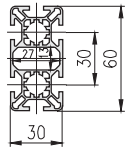
heavy				
<p>core hole Ø6.2 for thread M8</p>	 	 	 	
Description	Profile 20×20, 4H, SP	Profile 20×40, 4H, SP	Profile 20×40, 6H, SP	
bar, 6 m	1.10.020020.43SP.60	1.10.020040.44SP.60	1.10.020040.64SP.60	
packing unit (number)	1.10.020020.43SP.61 (10)	1.10.020040.44SP.61 (10)	1.10.020040.64SP.61 (10)	
moment of inertia cm ⁴	$I_x = 0.9$ $I_y = 0.9$	$I_x = 7.0$ $I_y = 2.0$	$I_x = 6.4$ $I_y = 1.7$	
moment of resistance cm ³	$W_x = 0.9$ $W_y = 0.9$	$W_x = 3.5$ $W_y = 2.0$	$W_x = 3.2$ $W_y = 1.7$	
weight kg/m	$G = 0.62$	$G = 1.3$	$G = 1.3$	









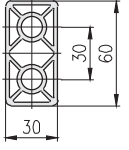
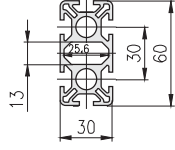
light				
 <p>core hole Ø12.0 for thread M14</p>				
				
Description	Profile 20×10, 1F, LP	Profile 20×30, 1F, LP	Profile 20×30, 2F, LP	
bar, 6 m	1.11.020010.14LP.60	1.11.020030.14LP.60	1.11.020030.24LP.60	
packing unit (number)	1.11.020010.14LP.61 (10)	1.11.020030.14LP.61 (10)	1.11.020030.24LP.61 (10)	
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				
 <p>core hole Ø12.0 for thread M14</p>				
				
Description			Profile 20×30, 2F, SP	
bar, 6 m			1.11.020030.24SP.60	
packing unit (number)			1.11.020030.24SP.61 (10)	
moment of inertia cm ⁴			$I_x = 2.6$ $I_y = 1.9$	
moment of resistance cm ³			$W_x = 1.7$ $W_y = 1.7$	
weight kg/m			$G = 1.0$	

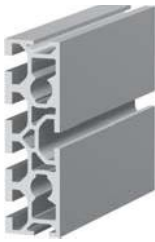
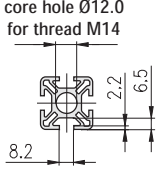
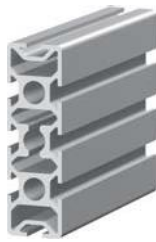
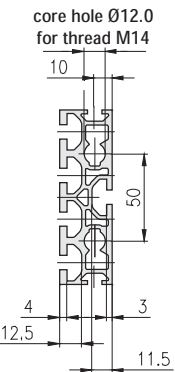
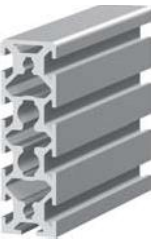
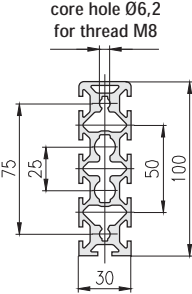
light				
<p>core hole Ø12.0 for thread M14</p>				
Description			Profile 30×30, 1F, LP	Profile 30×30, 2F, corner, LP
bar, 6 m			1.11.030030.13LP.60	1.11.030030.22LP.60
packing unit (number)			1.11.030030.13LP.61 (10)	1.11.030030.22LP.61 (10)
moment of inertia cm ⁴			$I_x = 3.1$	$I_x = 3.2$
moment of resistance cm ³			$W_x = 2.1$	$W_x = 2.1$
weight kg/m			$G = 0.9$	$G = 0.9$

heavy				
<p>core hole Ø12.0 for thread M14</p>				
Description	Profile 30×30, 2F, soft, SP	Profile 30×30, 0F, SP	Profile 30×30, 1F, SP	Profile 30×30, 2F, corner, SBP
bar, 6 m	1.11.030030.21SP.60	1.11.030030.03SP.60	1.11.030030.13SP.60	1.11.030030.22SBP.60
packing unit (number)	1.11.030030.21SP.61 (10)	1.11.030030.03SP.61 (10)	1.11.030030.13SP.61 (10)	1.11.030030.22SBP.61(10)
moment of inertia cm ⁴	$I_x = 2.7$	$I_x = 4.4$	$I_x = 4.3$	$I_x = 3.7$
moment of resistance cm ³	$W_x = 1.6$	$W_x = 2.3$	$W_x = 2.9$	$W_x = 2.4$
weight kg/m	$G = 0.9$	$G = 1.3$	$G = 1.2$	$G = 1.1$

				
				
Profile 30×30, 2F, LP	Profile 30×30, 3F, LP	Profile 30×30, 4F, LP		Profile 30×60, 6F, LP
1.11.030030.23LP.60	1.11.030030.33LP.60	1.11.030030.43LP.60		1.11.030060.64LP.60
1.11.030030.23LP.61 (10)	1.11.030030.33LP.61 (10)	1.11.030030.43LP.61 (10)		1.11.030060.64LP.61 (6)
$I_x = 3.2$ $I_y = 3.2$ $W_x = 2.1$ $W_y = 2.1$ $G = 0.9$	$I_x = 3.3$ $I_y = 3.2$ $W_x = 2.2$ $W_y = 2.2$ $G = 0.9$	$I_x = 3.3$ $I_y = 3.3$ $W_x = 2.2$ $W_y = 2.2$ $G = 0.9$		$I_x = 21.2$ $I_y = 5.7$ $W_x = 7.0$ $W_y = 3.8$ $G = 1.6$

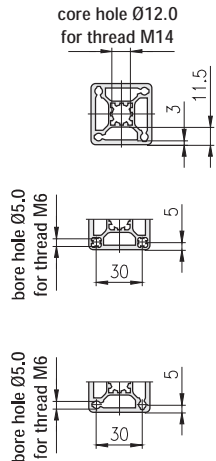



				
				
Profile 30×30, 2F, SP	Profile 30×30, 3F, SP	Profile 30×30, 4F, SP	Profile 30×60, 0F, SP	Profile 30×60, 6F, SP
1.11.030030.23SP.60	1.11.030030.33SP.60	1.11.030030.43SP.60	1.11.030060.04SP.60	1.11.030060.65SP.60
1.11.030030.23SP.61 (10)	1.11.030030.33SP.61 (10)	1.11.030030.43SP.61 (10)	1.11.030060.04SP.61 (6)	1.11.030060.65SP.61 (6)
$I_x = 3.6$ $I_y = 3.9$ $W_x = 2.4$ $W_y = 2.6$ $G = 1.1$	$I_x = 3.5$ $I_y = 3.7$ $W_x = 2.4$ $W_y = 2.4$ $G = 1.1$	$I_x = 3.5$ $I_y = 3.5$ $W_x = 2.4$ $W_y = 2.4$ $G = 1.1$	$I_x = 29.0$ $I_y = 7.8$ $W_x = 9.6$ $W_y = 5.2$ $G = 2.2$	$I_x = 25.0$ $I_y = 7.0$ $W_x = 8.3$ $W_y = 4.7$ $G = 2.1$

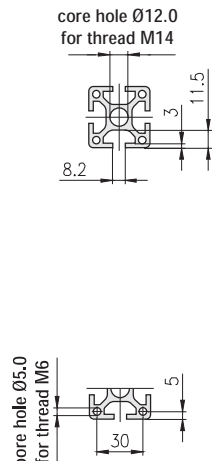


light				
Description				
bar, 6 m				
packing unit (number)				
moment of inertia cm^4				
moment of resistance cm^3				
weight kg/m				






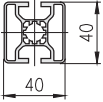
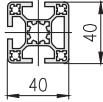
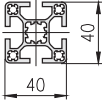
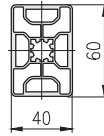
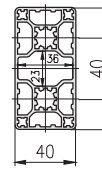
heavy	 	 	 
Description	Profile 30×100, 5E, 2F, SP	Profile 30×100, 8F, SP	Profile 30×100, 9F, SP
bar, 6 m	1.11.030100.74SP.60	1.11.030100.84SP.60	1.11.030100.94SP.60
packing unit (number)	1.11.030100.74SP.61 (4)	1.11.030100.84SP.61 (4)	1.11.030100.94SP.61 (4)
moment of inertia cm^4	$I_x = 108.9$ $I_y = 12.4$	$I_x = 115.0$ $I_y = 11.6$	$I_x = 130.6$ $I_y = 11.9$
moment of resistance cm^3	$W_x = 21.7$ $W_y = 8.3$	$W_x = 22.9$ $W_y = 7.7$	$W_x = 25.9$ $W_y = 7.9$
weight kg/m	$G = 3.5$	$G = 3.4$	$G = 3.6$


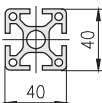


<p>core hole Ø6,2 for thread M8</p>		<p>Connection possibilities ↳ 110, Universal connector ↳ 114, ST-Connector</p>	<p>core hole Ø12.0 for thread M14</p>
<p>Profile 30×100, 10F, SP</p>	<p>Profile 30×150, 8F, SP</p>	<p>Profile 30×150, 8E, SP</p>	<p>Profile 60×60, 0F, SP</p>
<p>1.11.030100.104SP.60</p>	<p>1.11.030150.85SP.60</p>	<p>1.11.030150.84SP.60</p>	<p>1.11.060060.03SP.60</p>
<p>1.11.030100.104SP.61 (4)</p>	<p>1.11.030150.85SP.61 (2)</p>	<p>1.11.030150.84SP.61 (2)</p>	<p>1.11.060060.03SP.61 (6)</p>
<p>$I_x = 127.0$ $I_y = 11.9$ $W_x = 25.4$ $W_y = 7.9$ $G = 3.6$</p>	<p>$I_x = 340.0$ $I_y = 16.0$ $W_x = 45.0$ $W_y = 11.0$ $G = 4.1$</p>	<p>$I_x = 481.0$ $I_y = 25.1$ $W_x = 64.1$ $W_y = 16.7$ $G = 7.9$</p>	<p>$I_x = 58.2$ $I_y = 58.2$ $W_x = 15.5$ $W_y = 15.5$ $G = 4.0$</p>

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	$I_x = 6.4$ $I_y = 6.4$		$I_x = 8.5$ $I_y = 8.1$	$I_x = 8.0$ $I_y = 8.0$
moment of resistance cm ³	$W_x = 3.8$ $W_y = 3.8$		$W_x = 4.1$ $W_y = 4.0$	$W_x = 4.0$ $W_y = 4.0$
weight kg/m	$G = 1.2$		$G = 1.3$	$G = 1.3$


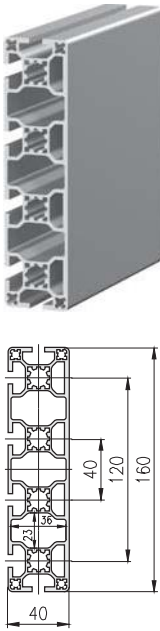
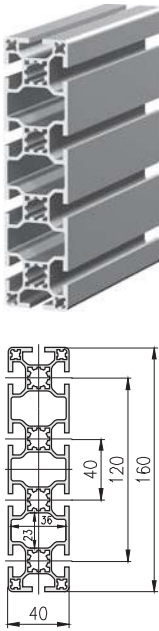
heavy				
				
Description		Profile 40×40, 0E, SP		Profile 40×40, 2E, corner, SP
bar, 6 m		1.11.040040.03SP.60		1.11.040040.22SP.60
packing unit (number)		1.11.040040.03SP.61 (8)		1.11.040040.22SP.61 (8)
moment of inertia cm ⁴		$I_x = 12.0$ $I_y = 12.0$		$I_x = 12.0$ $I_y = 12.0$
moment of resistance cm ³		$W_x = 6.0$ $W_y = 6.0$		$W_x = 6.0$ $W_y = 6.0$
weight kg/m		$G = 1.8$		$G = 2.0$


				
				
Profile 40×40, 2E, LP	Profile 40×40, 3E, LP	Profile 40×40, 4E, LP	Profile 40×60, 0E, LP	Profile 40×80, 0E, LP
1.11.040040.23LP.60	1.11.040040.33LP.60	1.11.040040.43LP.60	1.11.040060.04LP.60	1.11.040080.04LP.60
1.11.040040.23LP.61 (8)	1.11.040040.33LP.61 (8)	1.11.040040.43LP.61 (8)	1.11.040060.04LP.61 (8)	1.11.040080.04LP.61 (4)
$I_x = 8.2$ $I_y = 7.5$ $W_x = 4.1$ $W_y = 3.8$ $G = 1.3$	$I_x = 9.4$ $I_y = 10.0$ $W_x = 4.7$ $W_y = 5.0$ $G = 1.5$	$I_x = 9.9$ $I_y = 9.9$ $W_x = 4.9$ $W_y = 4.9$ $G = 1.5$	$I_x = 27.7$ $I_y = 13.1$ $W_x = 9.3$ $W_y = 6.5$ $G = 2.1$	$I_x = 66.8$ $I_y = 18.4$ $W_x = 16.7$ $W_y = 9.2$ $G = 2.7$


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

light				
Description	Profile 40×80, 3E, corner, LP	Profile 40×80, 4E, LP	Profile 40×80, 4E, LBP	Profile 40×80, 5E, LP
bar, 6 m	1.11.040080.32LP.60	1.11.040080.44LP.60	1.11.040080.44LBP.60	1.11.040080.54LP.60
packing unit (number)	1.11.040080.32LP.61 (4)	1.11.040080.44LP.61 (4)	1.11.040080.44LBP.61 (4)	1.11.040080.54LP.61 (4)
moment of inertia cm ⁴	$I_x = 65.2$ $I_y = 17.9$	$I_x = 64.0$ $I_y = 17.9$	$I_x = 74.5$ $I_y = 18.3$	$I_x = 72.2$ $I_y = 18.1$
moment of resistance cm ³	$W_x = 16.3$ $W_y = 8.9$	$W_x = 16.0$ $W_y = 8.9$	$W_x = 18.6$ $W_y = 9.2$	$W_x = 18.0$ $W_y = 9.0$
weight kg/m	$G = 2.6$	$G = 2.6$	$G = 2.8$	$G = 2.8$

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

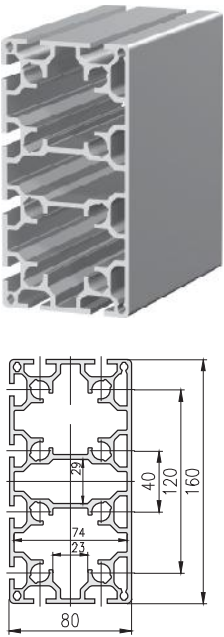
		
Profile 40x80, 6E, LP	Profile 40x160, 6E, LP	Profile 40x160, 10E, LP
1.11.040080.64LP.60	1.11.040160.64LP.60	1.11.040160.104LP.60
1.11.040080.64LP.61 (4)	1.11.040160.64LP.61 (2)	1.11.040160.104LP.61 (2)
$I_x = 62.7$ $I_y = 17.7$ $W_x = 15.6$ $W_y = 8.8$ $G = 2.5$	$I_x = 450.4$ $I_y = 36.3$ $W_x = 56.3$ $W_y = 18.1$ $G = 5.0$	$I_x = 433.5$ $I_y = 33.1$ $W_x = 54.2$ $W_y = 16.5$ $G = 4.7$

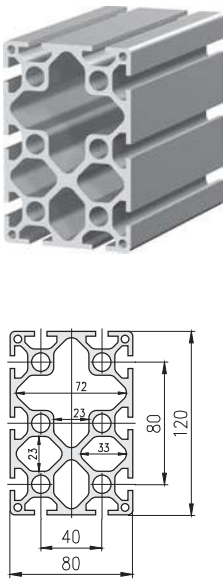
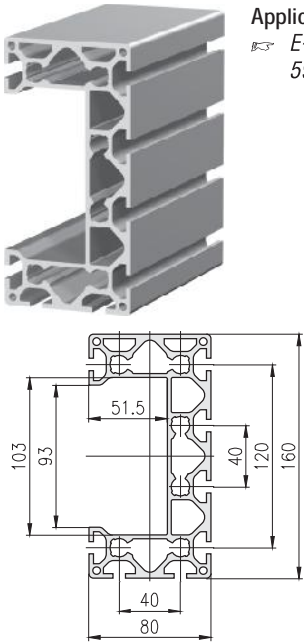
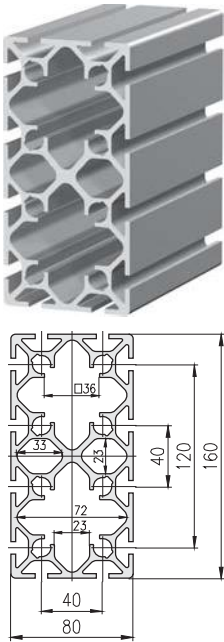
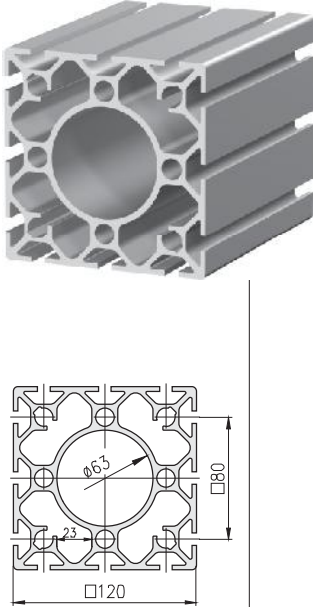
		
Profile 40x80, 6E, SP		
1.11.040080.64SP.60		
1.11.040080.64SP.61 (4)		
$I_x = 82.0$ $I_y = 23.4$ $W_x = 20.5$ $W_y = 11.7$ $G = 3.8$		

extra heavy

Profile 40x80, 6E, XP
1.11.040080.64XP.60
1.11.040080.64XP.61 (4)
$I_x = 90.0$ $I_y = 27.0$ $W_x = 22.5$ $W_y = 13.5$ $G = 4.4$

light				
Description	Profile 80×80, 0E, 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	$I_x = 135.0$ $I_y = 135.0$	$I_x = 128.0$ $I_y = 128.0$	$I_x = 121.3$ $I_y = 116.0$	$I_x = 114.0$ $I_y = 114.0$
moment of resistance cm ³	$W_x = 33.5$ $W_y = 33.5$	$W_x = 32.0$ $W_y = 32.0$	$W_x = 30.3$ $W_y = 29.0$	$W_x = 28.4$ $W_y = 28.4$
weight kg/m	$G = 4.7$	$G = 4.5$	$G = 4.2$	$G = 4.1$

heavy				
Description		Profile 80×80, 7E, SBP	Profile 80×80, 7E, SP	Profile 80×80, 8E, SP
bar, 6 m		1.11.080080.73SBP.60	1.11.080080.79SP.60	1.11.080080.83SP.60
packing unit (number)		1.11.080080.73SBP.61 (2)	1.11.080080.79SP.61 (2)	1.11.080080.83SP.61 (2)
moment of inertia cm ⁴		$I_x = 145.0$ $I_y = 141.0$	$I_x = 173.0$ $I_y = 160.0$	$I_x = 166.0$ $I_y = 166.0$
moment of resistance cm ³		$W_x = 36.2$ $W_y = 35.2$	$W_x = 43.3$ $W_y = 40.0$	$W_x = 41.4$ $W_y = 41.4$
weight kg/m		$G = 5.3$	$G = 7.6$	$G = 5.9$

				
	<p>Profile 80×160, 8E, LP</p>			
	<p>1.11.080160.84LP.60</p>			
	<p>1.11.080160.84LP.61 (2)</p>			
	<p>$I_x = 828.0$ $I_y = 259.0$ $W_x = 104.0$ $W_y = 65.0$ $G = 8.6$</p>			

	 <p>Application ↳ E-trunking profiles, 59, 324-327</p>		
<p>Profile 80×120, 10E, SP</p>	<p>Profile 80×160, 8E, SP</p>	<p>Profile 80×160, 12E, SP</p>	<p>Profile 120×120, 12E, SP</p>
<p>1.11.080120.104SP.60</p>	<p>1.11.080160.89SP.60</p>	<p>1.11.080160.124SP.60</p>	<p>1.11.120120.123SP.60</p>
<p>1.11.080120.104SP.61 (2)</p>	<p>1.11.080160.89SP.61 (2)</p>	<p>1.11.080160.124SP.61 (2)</p>	<p>1.11.120120.123SP.61 (2)</p>
<p>$I_x = 449.9$ $I_y = 217.8$ $W_x = 72.6$ $W_y = 54.4$ $G = 8.6$</p>	<p>$I_x = 944.0$ $I_y = 183.0$ $W_x = 118.0$ $W_y = 45.8$ $G = 7.9$</p>	<p>$I_x = 883.0$ $I_y = 269.0$ $W_x = 110.0$ $W_y = 67.3$ $G = 9.4$</p>	<p>$I_x = 624.0$ $I_y = 624.0$ $W_x = 104.0$ $W_y = 104.0$ $G = 10.6$</p>

light	F-Slot			Connection possibilities and calculation formulas for polygons \rightarrow 1.2E
F-Slot				
core hole $\varnothing 12.0$ for thread M14 				
E3-Slot				
core hole $\varnothing 12.0$ for thread M14 				
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 cm^4	$I_x = 6.0$ $I_y = 4.8$	$I_x = 14.5$ $I_y = 8.0$	$I_x = 30.0$ $I_y = 10.5$	
moment of resistance cm^3	$W_x = 3.0$ $W_y = 2.4$	$W_x = 4.9$ $W_y = 3.7$	$W_x = 7.6$ $W_y = 4.6$	
weight kg/m	$G = 1.2$	$G = 1.6$	$G = 1.9$	






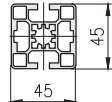
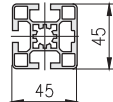
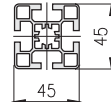
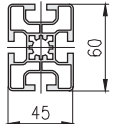
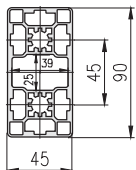
light			Connection possibilities and calculation formulas for polygons \rightarrow 1.2E	
core hole $\varnothing 12.0$ for thread M14 				
Description	Profile 40, round 90 deg., 2E, LP			
bar, 6 m	1.11.040R90.20LP.60			
packing unit (number)	1.11.040R90.20LP.61 (4)			
moment of inertia cm^4	$I_x = 89.0$ $I_y = 89.0$			
moment of resistance cm^3	$W_x = 16.0$ $W_y = 16.0$			
weight kg/m	$G = 3.0$			




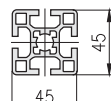
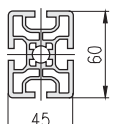
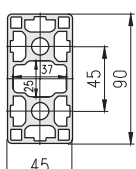
<p style="text-align: center;">light</p> <p>core hole Ø12.0 for thread M14</p> <p>bore hole Ø5.0 for thread M6</p>				
<p>Description</p>	<p>Profile 40×40, 2E, 45 deg., LP</p>	<p>Profile 80×80, 3E, 45 deg., LP</p>	<p>Profile 80×80, 7E, 45 deg., LP</p>	
<p>bar, 6 m</p>	<p>1.11.040040.28LP.60</p>	<p>1.11.080080.38LP.60</p>	<p>1.11.080080.78LP.60</p>	
<p>packing unit (number)</p>	<p>1.11.040040.28LP.61 (8)</p>	<p>1.11.080080.38LP.61 (2)</p>	<p>1.11.080080.78LP.61 (2)</p>	
<p>moment of inertia cm^4 moment of resistance cm^3 weight kg/m</p>	<p>$I_x = 7.3$ $I_y = 7.3$ $W_x = 3.9$ $W_y = 3.9$ $G = 1.4$</p>	<p>$I_x = 105.0$ $I_y = 105.0$ $W_x = 26.0$ $W_y = 26.0$ $G = 4.1$</p>	<p>$I_x = 99.3$ $I_y = 99.3$ $W_x = 24.8$ $W_y = 24.8$ $G = 4.0$</p>	



light				
<p>core hole Ø12.0 for thread M14</p>				
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				
<p>core hole Ø12.0 for thread M14</p>				
<p>bore hole for thread M10</p>				
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)
$I_x = 14.0$ $I_y = 15.5$ $W_x = 6.2$ $W_y = 6.9$ $G = 2.0$	$I_x = 14.0$ $I_y = 14.7$ $W_x = 6.2$ $W_y = 6.5$ $G = 2.1$	$I_x = 13.5$ $I_y = 13.5$ $W_x = 6.0$ $W_y = 6.0$ $G = 1.9$	$I_x = 26.5$ $I_y = 16.0$ $W_x = 9.0$ $W_y = 7.2$ $G = 2.3$	$I_x = 107.5$ $I_y = 30.4$ $W_x = 23.9$ $W_y = 13.5$ $G = 3.6$

				
				
		Profile 45×45, 4E, SP	Profile 45×60, 4E, SP	Profile 45×90, 0E, SP
		1.11.045045.43SP.60	1.11.045060.44SP.60	1.11.045090.04SP.60
		1.11.045045.43SP.61 (8)	1.11.045060.44SP.61 (6)	1.11.045090.04SP.61 (4)
		$I_x = 15.5$ $I_y = 15.5$ $W_x = 6.9$ $W_y = 6.9$ $G = 2.1$	$I_x = 38.0$ $I_y = 23.5$ $W_x = 13.0$ $W_y = 10.4$ $G = 3.0$	$I_x = 134.3$ $I_y = 36.3$ $W_x = 29.8$ $W_y = 16.2$ $G = 4.7$

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				

heavy	<p>core hole Ø12.0 for thread M14</p> <p>bore hole for thread M12</p>			
Description	Profile 100×200, 12E, SP			
bar, 6 m	1.11.100200.124SP.60			
packing unit (number)	1.11.100200.124SP.61 (2)			
moment of inertia cm ⁴	I _x = 2,450 I _y = 760			
moment of resistance cm ³	W _x = 250 W _y = 152			
weight kg/m	G = 17.2			

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






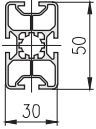
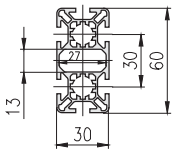
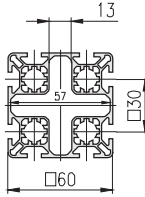
heavy				
Description	Profile 48, round, 1E, SP	Profile 48, round, 2E, corner, SP	Profile 48, round, 2E, SP	
bar, 6 m	1.11.048R00.10SP.60	1.11.048R00.22SP.60	1.11.048R00.20SP.60	
packing unit (number)	1.11.048R00.10SP.61 (6)	1.11.048R00.22SP.61 (6)	1.11.048R00.20SP.61 (6)	
moment of inertia cm ⁴	I _x = 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	






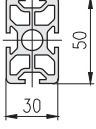
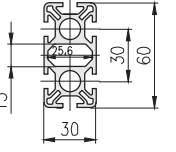
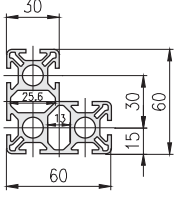
Profiles hexagonal/octagonal, P (plain)

heavy				
Description	Profile 30, hexagonal, 6F, SP	Profile 30, octagonal, 8F, SP	Profile 40, hexagonal, 6E, SP	Profile 40, octagonal, 8E, SP
bar, 6 m	1.11.0306kt.69SP.60	1.11.0308kt.89SP.60	1.11.0406kt.69SP.60	1.11.0408kt.89SP.60
packing unit (number)	1.11.0306kt.69SP.61 (2)	1.11.0308kt.89SP.61 (2)	1.11.0406kt.69SP.61 (2)	1.11.0408kt.89SP.61 (2)
moment of inertia cm ⁴	I _x = 32.0 I _y = 32.0	I _x = 84.0 I _y = 84.0	I _x = 83.0 I _y = 83.0	I _x = 233.0 I _y = 233.0
moment of resistance cm ³	W _x = 9.8 W _y = 9.8	W _x = 21.0 W _y = 21.0	W _x = 21.0 W _y = 21.0	W _x = 44.0 W _y = 44.0
weight kg/m	G = 2.8	G = 3.9	G = 4.4	G = 6.5

light				
Description		Profile 30×30, 2F, corner, L	Profile 30×30, 2F, L	Profile 30×30, 3F, L
bar, 6 m		1.11.030030.22L.60	1.11.030030.23L.60	1.11.030030.33L.60
packing unit (number)		1.11.030030.22L.61 (10)	1.11.030030.23L.61 (10)	1.11.030030.33L.61 (10)
moment of inertia cm ⁴		$I_x = 3.2$ $I_y = 3.2$	$I_x = 3.2$ $I_y = 3.2$	$I_x = 3.3$ $I_y = 3.2$
moment of resistance cm ³		$W_x = 2.1$ $W_y = 2.1$	$W_x = 2.2$ $W_y = 2.2$	$W_x = 2.2$ $W_y = 2.2$
weight kg/m		$G = 0.9$	$G = 0.9$	$G = 0.9$




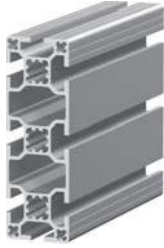
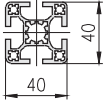
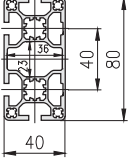
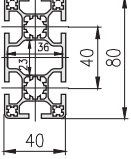
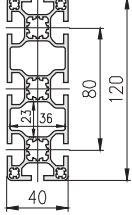
heavy				
Description	Profile 30×30, 2F, soft, S	Profile 30×30, 2F, corner, S	Profile 30×30, 2F, corner, SB	Profile 30×30, 3F, S
bar, 6 m	1.11.030030.21S.60	1.11.030030.22S.60	1.11.030030.22SB.60	1.11.030030.33S.60
packing unit (number)	1.11.030030.21S.61 (10)	1.11.030030.22S.61 (10)	1.11.030030.22SB.61 (10)	1.11.030030.33S.61 (10)
moment of inertia cm ⁴	$I_x = 2.7$ $I_y = 2.7$	$I_x = 3.7$ $I_y = 3.7$	$I_x = 3.7$ $I_y = 3.7$	$I_x = 3.5$ $I_y = 3.7$
moment of resistance cm ³	$W_x = 1.6$ $W_y = 1.6$	$W_x = 2.4$ $W_y = 2.4$	$W_x = 2.4$ $W_y = 2.4$	$W_x = 2.4$ $W_y = 2.4$
weight kg/m	$G = 0.9$	$G = 1.1$	$G = 1.1$	$G = 1.1$



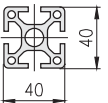
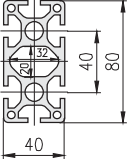
				
				
Profile 30×30, 4F, L	Profile 30×50, 4F, L	Profile 30×60, 6F, L	Profile 60×60, 8F, L	
1.11.030030.43L.60	1.11.030050.44L.60	1.11.030060.64L.60	1.11.060060.83L.60	
1.11.030030.43L.61 (10)	1.11.030050.44L.61 (6)	1.11.030060.64L.61 (6)	1.11.060060.83L.61 (8)	
$I_x = 3.3$ $I_y = 3.3$ $W_x = 2.2$ $W_y = 2.2$ $G = 0.9$	$I_x = 11.0$ $I_y = 4.3$ $W_x = 4.8$ $W_y = 3.3$ $G = 1.3$	$I_x = 21.2$ $I_y = 5.7$ $W_x = 7.0$ $W_y = 3.8$ $G = 1.6$	$I_x = 38.7$ $I_y = 38.7$ $W_x = 12.9$ $W_y = 12.9$ $G = 2.6$	

				
				
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)	
$I_x = 3.5$ $I_y = 3.5$ $W_x = 2.4$ $W_y = 2.4$ $G = 1.1$	$I_x = 16.9$ $I_y = 6.6$ $W_x = 6.7$ $W_y = 4.4$ $G = 2.0$	$I_x = 25.0$ $I_y = 7.0$ $W_x = 8.3$ $W_y = 4.7$ $G = 2.1$	$I_x = 35.2$ $I_y = 35.2$ $W_x = 9.9$ $W_y = 9.9$ $G = 2.8$	

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




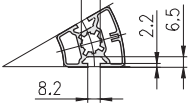
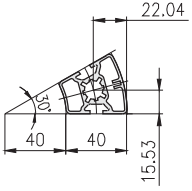
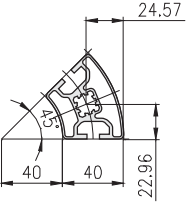
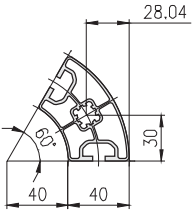
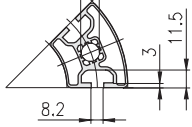
heavy				
Description		Profile 40×40, 2E, corner, S	Profile 40×40, 3E, S	
bar, 6 m		1.11.040040.22S.60	1.11.040040.33S.60	
packing unit (number)		1.11.040040.22S.61 (8)	1.11.040040.33S.61 (8)	
moment of inertia	cm ⁴	$I_x = 12.3$ $I_y = 12.3$	$I_x = 12.0$ $I_y = 12.3$	
moment of resistance	cm ³	$W_x =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


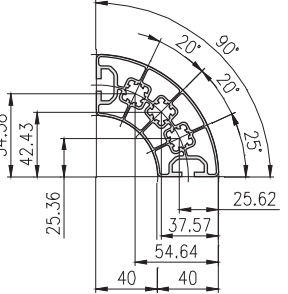
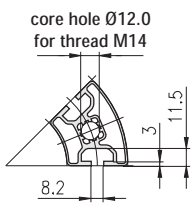
				
				
Profile 40×40, 4E, L	Profile 40×80, 4E, L	Profile 40×80, 6E, L	Profile 40×120, 8E, L	
1.11.040040.43L.60	1.11.040080.44L.60	1.11.040080.64L.60	1.11.040120.84L.60	
1.11.040040.43L.61 (8)	1.11.040080.44L.61 (4)	1.11.040080.64L.61 (4)	1.11.040120.84L.61 (2)	
$I_x = 9.9$ $I_y = 9.9$ $W_x = 4.9$ $W_y = 4.9$ $G = 1.5$	$I_x = 63.2$ $I_y = 17.8$ $W_x = 15.7$ $W_y = 8.9$ $G = 2.6$	$I_x = 62.7$ $I_y = 17.0$ $W_x = 15.6$ $W_y = 8.5$ $G = 2.6$	$I_x = 194.0$ $I_y = 26.0$ $W_x = 33.0$ $W_y = 13.0$ $G = 3.7$	

				
				
Profile 40×40, 4E, S		Profile 40×80, 6E, S		
1.11.040040.43S.60		1.11.040080.65S.60		
1.11.040040.43S.61 (8)		1.11.040080.65S.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	$I_x = 111.0$ $I_y = 111.0$	$I_x = 115.0$ $I_y = 115.0$	$I_x = 801.0$ $I_y = 235.0$	
moment of resistance cm ³	$W_x = 28.0$ $W_y = 28.0$	$W_x = 29.0$ $W_y = 29.0$	$W_x = 100.0$ $W_y = 59.0$	
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	Profile 80×160, 12E, S	
bar, 6 m	1.11.080080.83S.60	1.11.080080.87S.60	1.11.080160.124S.60	
packing unit (number)	1.11.080080.83S.61 (2)	1.11.080080.87S.61 (2)	1.11.080160.124S.61 (2)	
moment of inertia cm ⁴	$I_x = 166.0$ $I_y = 166.0$	$I_x = 120.0$ $I_y = 120.0$	$I_x = 880.0$ $I_y = 268.0$	
moment of resistance cm ³	$W_x = 41.4$ $W_y = 41.4$	$W_x = 23.8$ $W_y = 23.8$	$W_x = 110.0$ $W_y = 67.0$	
weight kg/m	$G = 5.9$	$G = 6.3$	$G = 9.4$	

light	F-Slot			Connection possibilities and calculation formulas for polygons ↗ 1.2E
F-Slot				
core hole Ø12.0 for thread M14				
				
E3-Slot				
core hole Ø12.0 for thread M14				
				
Description	Profile 40, round 30 deg., 2F, L	Profile 40, round 45 deg., 2E, L	Profile 40, round 60 deg., 2E, L	
bar, 6 m	1.11.040R30.20L.60	1.11.040R45.20L.60	1.11.040R60.20L.60	
packing unit (number)	1.11.040R30.20L.61 (8)	1.11.040R45.20L.61 (8)	1.11.040R60.20L.61 (8)	
moment of inertia cm ⁴	I _x = 6.0 I _y = 4.8	I _x = 14.5 I _y = 8.0	I _x = 30.0 I _y = 10.5	
moment of resistance cm ³	W _x = 3.0 W _y = 2.4	W _x = 4.9 W _y = 3.7	W _x = 7.6 W _y = 4.6	
weight kg/m	G = 1.2	G = 1.6	G = 1.9	


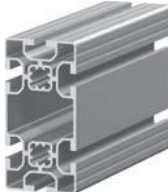
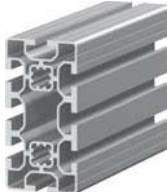

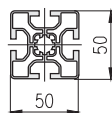
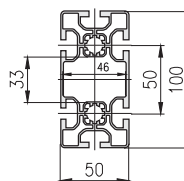
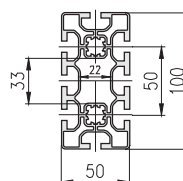
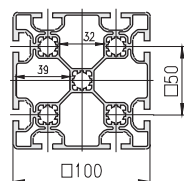
light	Profile 40, round 90 deg., 2E, L			Connection possibilities and calculation formulas for polygons ↗ 1.2E	
					
core hole Ø12.0 for thread M14					
					
Description	Profile 40, round 90 deg., 2E, L				
bar, 6 m	1.11.040R90.20L.60				
packing unit (number)	1.11.040R90.20L.61 (4)				
moment of inertia cm ⁴	I _x = 89.0 I _y = 89.0				
moment of resistance cm ³	W _x = 16.0 W _y = 16.0				
weight kg/m	G = 3.0				





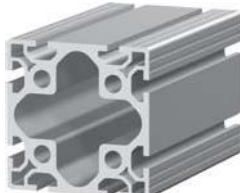
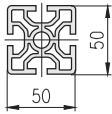
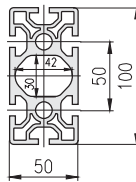
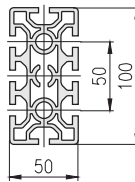
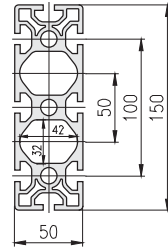
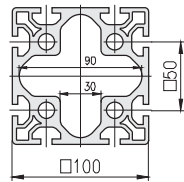
light					
Description	Profile 45×45, 4E, L	Profile 45×60, 4E, L	Profile 45×90, 6E, L	Profile 90×90, 8E, L	
bar, 6 m	1.11.045045.43L.60	1.11.045060.44L.60	1.11.045090.64L.60	1.11.090090.83L.60	
packing unit (number)	1.11.045045.43L.61 (8)	1.11.045060.44L.61 (6)	1.11.045090.64L.61 (4)	1.11.090090.83L.61 (2)	
moment of inertia cm^4	$I_x = 13.5$ $I_y = 13.5$	$I_x = 26.5$ $I_y = 16.0$	$I_x = 98.0$ $I_y = 27.5$	$I_x = 183.0$ $I_y = 183.0$	
moment of resistance cm^3	$W_x = 6.0$ $W_y = 6.0$	$W_x = 9.0$ $W_y = 7.2$	$W_x = 21.8$ $W_y = 12.2$	$W_x = 40.7$ $W_y = 40.7$	
weight kg/m	$G = 1.9$	$G = 2.3$	$G = 3.3$	$G = 5.3$	

heavy					
Description	Profile 45×45, 4E, S	Profile 45×60, 4E, S	Profile 45×90, 6E, S	Profile 90×90, 8E, S	
bar, 6 m	1.11.045045.43S.60	1.11.045060.44S.60	1.11.045090.64S.60	1.11.090090.83S.60	
packing unit (number)	1.11.045045.43S.61 (8)	1.11.045060.44S.61 (6)	1.11.045090.64S.61 (4)	1.11.090090.83S.61 (2)	
moment of inertia cm^4	$I_x = 16.8$ $I_y = 16.8$	$I_x = 38.8$ $I_y = 23.5$	$I_x = 126.0$ $I_y = 34.0$	$I_x = 282.0$ $I_y = 282.0$	
moment of resistance cm^3	$W_x = 7.4$ $W_y = 7.4$	$W_x = 13.0$ $W_y = 10.4$	$W_x = 28.0$ $W_y = 15.0$	$W_x = 63.0$ $W_y = 63.0$	
weight kg/m	$G = 2.3$	$G = 3.0$	$G = 4.4$	$G = 9.5$	

light				
Description		Profile 50×50, 2E, corner, L	Profile 50×50, 2E, L	Profile 50×50, 3E, L
bar, 6 m		1.11.050050.22L.60	1.11.050050.23L.60	1.11.050050.33L.60
packing unit (number)		1.11.050050.22L.61 (6)	1.11.050050.23L.61 (6)	1.11.050050.33L.61 (6)
moment of inertia cm ⁴		$I_x = 16.5$ $I_y = 16.5$	$I_x = 17.7$ $I_y = 13.6$	$I_x = 18.4$ $I_y = 16.0$
moment of resistance cm ³		$W_x = 6.7$ $W_y = 6.7$	$W_x = 7.0$ $W_y = 5.4$	$W_x = 7.3$ $W_y = 5.8$
weight kg/m		G = 1.7	G = 1.6	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		$I_x = 18.8$ $I_y = 18.8$	$I_x = 28.2$ $I_y = 28.2$	$I_x = 27.3$ $I_y = 28.2$
moment of resistance cm ³		$W_x = 7.5$ $W_y = 7.5$	$W_x = 11.1$ $W_y = 11.1$	$W_x = 11.1$ $W_y = 11.1$
weight kg/m		G = 2.3	G = 3.2	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)
$I_x = 19.2$ $I_y = 19.2$ $W_x = 7.7$ $W_y = 7.7$ $G = 2.2$	$I_x = 138.0$ $I_y = 37.0$ $W_x = 27.5$ $W_y = 14.5$ $G = 3.5$	$I_x = 137.0$ $I_y = 40.0$ $W_x = 27.5$ $W_y = 16.0$ $G = 4.0$		$I_x = 284.0$ $I_y = 284.0$ $W_x = 50.8$ $W_y = 50.8$ $G = 6.2$

				
				
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	1.11.050100.65S.60	1.11.050100.84S.60	1.11.050150.85S.60	1.11.100100.83S.60
1.11.050050.43S.61 (6)	1.11.050100.65S.61 (3)	1.11.050100.84S.61 (3)	1.11.050150.85S.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	$I_x = 35.5$ $I_y = 35.5$	$I_x = 124.0$ $I_y = 54.0$		
moment of resistance cm^3	$W_x = 11.7$ $W_y = 11.7$	$W_x = 27.5$ $W_y = 18.0$		
weight kg/m	$G = 2.7$	$G = 4.0$		

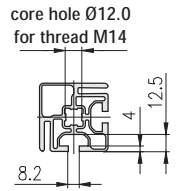

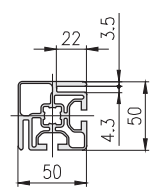

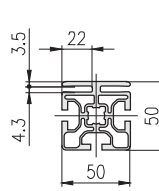
heavy				
Description	Profile 60×60, 4E, S	Profile 60×90, 6E, S		
bar, 6 m	1.11.060060.43S.60	1.11.060090.64S.60		
packing unit (number)	1.11.060060.43S.61 (6)	1.11.060090.64S.61 (3)		
moment of inertia cm^4	$I_x = 56.0$ $I_y = 56.0$	$I_x = 193.0$ $I_y = 83.0$		
moment of resistance cm^3	$W_x = 18.7$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

<p>light</p> <p>core hole Ø12.0 for thread M14</p>					
	Description	Panel profile 30×30, 0F, 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 moment of resistance cm ³ weight kg/m	$I_x = 3.8$ $I_y = 3.8$ $W_x = 2.4$ $W_y = 2.4$ $G = 1.1$	$I_x = 3.3$ $I_y = 3.3$ $W_x = 2.2$ $W_y = 2.2$ $G = 1.0$	$I_x = 3.3$ $I_y = 2.8$ $W_x = 2.2$ $W_y = 1.8$ $G = 0.9$	$I_x = 5.5$ $I_y = 11.8$ $W_x = 3.6$ $W_y = 4.8$ $G = 1.5$

<p>light</p> <p>core hole Ø12.0 for thread M14</p>				
	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 moment of resistance cm ³ weight kg/m	$I_x = 4.3$ $I_y = 3.3$ $W_x = 2.8$ $W_y = 2.2$ $G = 1.2$	$I_x = 7.0$ $I_y = 14.7$ $W_x = 4.7$ $W_y = 5.9$ $G = 1.9$	$I_x = 3.6$ $I_y = 2.8$ $W_x = 2.4$ $W_y = 1.9$ $G = 1.0$

<p>light</p>					
	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 moment of resistance cm ³ weight kg/m	$I_x = 10.3$ $I_y = 10.3$ $W_x = 5.2$ $W_y = 5.2$ G = 1.8	$I_x = 10.2$ $I_y = 8.7$ $W_x = 5.1$ $W_y = 4.3$ G = 1.65	$I_x = 14.8$ $I_y = 26.3$ $W_x = 7.4$ $W_y = 8.8$ G = 2.4	$I_x = 100.4$ $I_y = 50.4$ $W_x = 25.1$ $W_y = 16.8$ G = 3.8

<p>light</p>	Profile for door stop				
			<p>Assembly drawing</p>	<p>Assembly drawing</p>	
	Description	Panel profile 60×80, 6E, LP 4	Profile 20×30, 1F, LP		
	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 moment of resistance cm ³ weight kg/m	$I_x = 85.8$ $I_y = 50.8$ $W_x = 21.5$ $W_y = 16.9$ G = 3.7	$I_x = 2.2$ $I_y = 1.4$ $W_x = 1.5$ $W_y = 1.4$ G = 0.7	$I_x = 113.0$ $I_y = 64.0$ $W_x = 28.5$ $W_y = 21.3$ G = 4.5	$I_x = 89.2$ $I_y = 53.3$ $W_x = 22.3$ $W_y = 17.7$ G = 4.4	


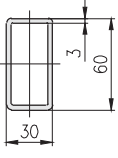

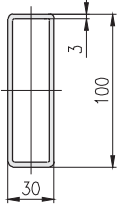
<p style="text-align: center;">light</p> 	 	 		
Description	Panel profile 50×50, 2E, corner, LP 4	Panel profile 50×50, 3E, LP 4		
bar, 6 m	1.14.050050.22LP4.60	1.14.050050.39LP4.60		
packing unit (number)	1.14.050050.22LP4.61 (6)	1.14.050050.39LP4.61 (6)		
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	$I_x = 25.2$ $I_y = 25.2$ $W_x = 10.6$ $W_y = 7.3$ $G = 2.4$	$I_x = 23.5$ $I_y = 20.9$ $W_x = 9.9$ $W_y = 8.7$ $G = 2.6$		

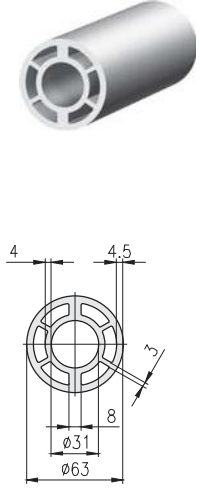
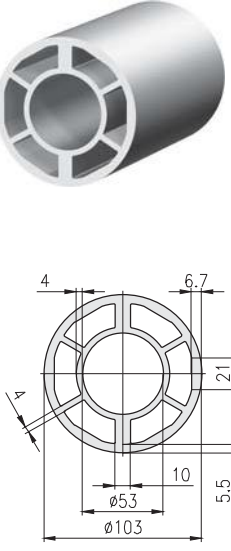
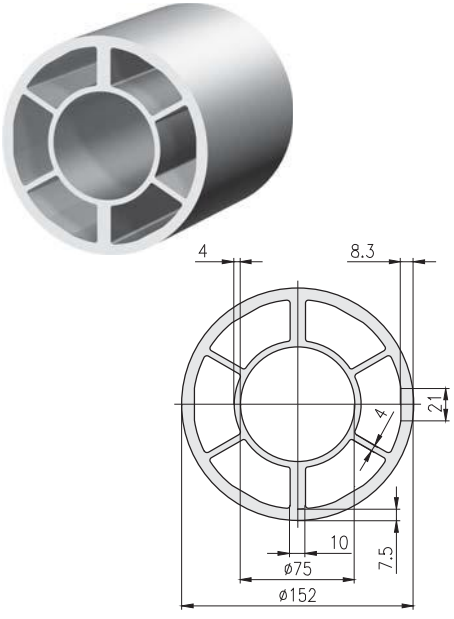


light				
<p>core hole Ø12.0 for thread M14</p>	 	 		
Description	Wire net profile 30×30, 2F, LP 7.5	Wire net profile 30×45, 2F, LP 7.5		
bar, 6 m	1.15.030030.23LP7.60	1.15.030045.24LP7.60		
packing unit (number)	1.15.030030.23LP7.61 (10)	1.15.030045.24LP7.61 (8)		
moment of inertia cm ⁴	$I_x = 2.6$ $I_y = 3.2$	$I_x = 4.3$ $I_y = 7.4$		
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		

Wire net profiles 40, F / E3-slot, P (plain)

light				
<p>core hole Ø12.0 for thread M14</p>	 	 		
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		





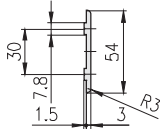
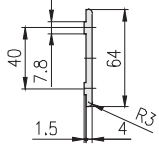
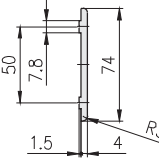
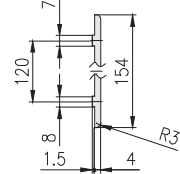
light					
		 	 		
Description		Tube profile 30×60, LP	Tube profile 30×100, LP		
bar, 6 m		1.17.030060.04LP.60	1.17.030100.04LP.60		
packing unit (number)		1.17.030060.04LP.61 (6)	1.17.030100.04LP.61 (4)		
moment of inertia cm ⁴	$I_x = 24.0$	$I_y = 7.5$	$I_x = 90.0$	$I_y = 12.0$	
moment of resistance cm ³	$W_x = 8.0$	$W_y = 5.0$	$W_x = 18.0$	$W_y = 8.0$	
weight kg/m	$G = 1.47$		$G = 2.20$		

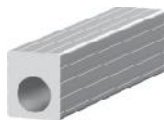
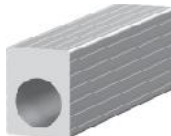
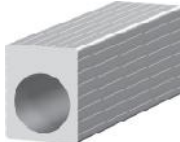
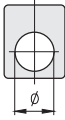
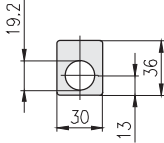
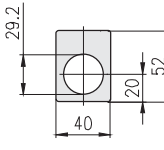
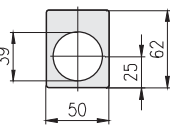
heavy			
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: bare	Roller profile 63/31, SBP	Roller profile 103/53, SBP	Roller profile 152/75, SBP
bar, 6 m	5.11.063R00.00SBP.60	5.11.103R00.00SBP.60	5.11.152R00.00SBP.60
packing unit (number)	5.11.063R00.00SBP.61 (4)	5.11.103R00.00SBP.61 (2)	5.11.152R00.00SBP.61 (1)
moment of inertia cm ⁴ moment of resistance cm ³ weight kg/m	$I_x = 53.0$ $I_y = 49.0$ $W_x = 16.7$ $W_y = 15.5$ $G = 4.2$	$I_x = 315.0$ $I_y = 286.0$ $W_x = 61.0$ $W_y = 55.0$ $G = 8.7$	$I_x = 1,245.0$ $I_y = 1,145.0$ $W_x = 163.0$ $W_y = 150.0$ $G = 15.4$

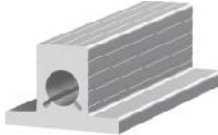
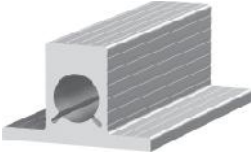
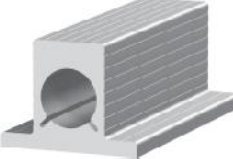
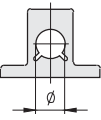
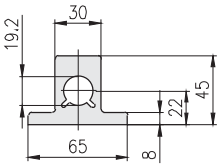
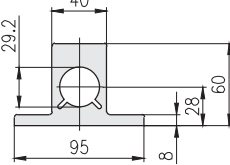
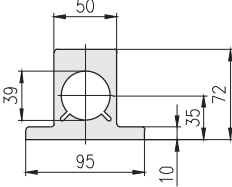
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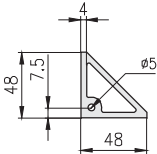

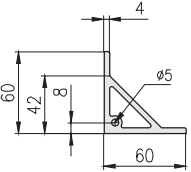

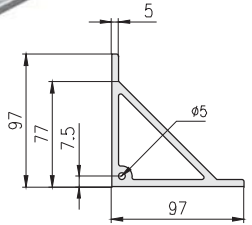
<p>heavy</p>			
<p>Description</p>		<p>Telescopic profile 80×80, 8E, SBP</p>	
<p>bar, 6 m</p>		<p>9.11.080080.83SBP.60</p>	
<p>moment of inertia cm^4</p>		<p>$I_x = 150.0$ $I_y = 150.0$</p>	
<p>moment of resistance cm^3</p>		<p>$W_x = 37.5$ $W_y = 37.5$</p>	
<p>weight kg/m</p>		<p>$G = 5.3$</p>	


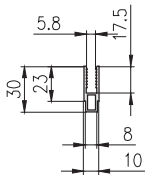

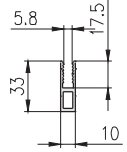
<p>heavy</p>		<p>heavy</p>	
<p>Description</p>		<p>Description</p>	
<p>bar, 6 m</p>		<p>bar, 6 m</p>	
<p>Telescopic profile 120×120, 12E, SP</p>		<p>Telescopic profile 160×160, 16E, SP</p>	
<p>moment of inertia cm^4</p>		<p>moment of inertia cm^4</p>	
<p>$I_x = 554.0$ $I_y = 554.0$</p>		<p>$I_x = 1,424.0$ $I_y = 1,424.0$</p>	
<p>moment of resistance cm^3</p>		<p>moment of resistance cm^3</p>	
<p>$W_x = 93.0$ $W_y = 93.0$</p>		<p>$W_x = 178.0$ $W_y = 178.0$</p>	
<p>weight kg/m</p>		<p>weight kg/m</p>	
<p>$G = 7.8$</p>		<p>$G = 10.7$</p>	


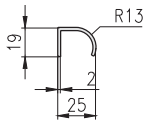

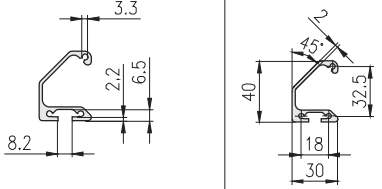
Profile pre-cut lids					
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised					Application E-trunking profiles, 59, 324-327 
Description	Profile pre-cut lid 30	Profile pre-cut lid 40	Profile pre-cut lid 50	Profile pre-cut lid 120	
bar, 6 m	1.19.110130.60	1.19.110140.60	1.19.110150.60	1.19.1101120.60	
cut to length	1.19.110130-A00A00/...	1.19.110140-A00A00/...	1.19.110150-F00F00/...	1.19.1101120-L00L00/...	
weight	kg/m G = 0.49	G = 0.74	G = 0.85	G = 1.80	

Hollow profiles					
 As bar item the bore will have machining allowances Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: bare					
Description	Hollow profile Ø20	Hollow profile Ø30	Hollow profile Ø40		
bar, 6 m	1.19.12120.60	1.19.12130.60	1.19.12140.60		
cut to length	1.19.12120-A00A00/...	1.19.12130-F00F00/...	1.19.12140-L00L00/...		
weight	kg/m G = 2.3	G = 4.1	G = 5.5		


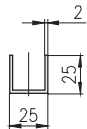

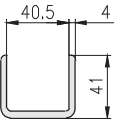

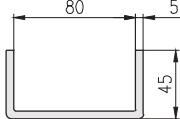

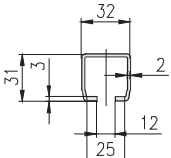
Base profiles					
 As bar item the bore will have machining allowances Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: bare					
Description	Base profile Ø20	Base profile Ø30	Base profile Ø40		
bar, 6 m	1.19.13120.60	1.19.13130.60	1.19.13140.60		
cut to length	1.19.13120-F00F00/...	1.19.13130-L00L00/...	1.19.13140-L00L00/...		
weight	kg/m G = 3.9	G = 6.2	G = 8.2		


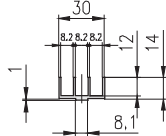

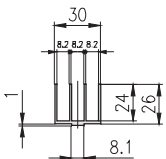

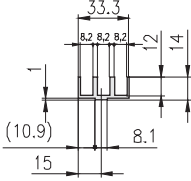

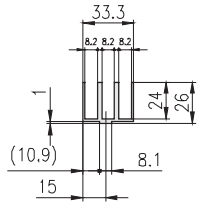
Angle profiles				
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: bare	 	 	 	
	Description	Angle profile 48×48	Angle profile 60×60	Angle profile 100×100
	bar, 6 m	1.19.141048.60	1.19.141060.60	1.19.141100.60
	cut to length	1.19.141048-F00F00/...	1.19.141060-L00L00/...	1.19.141100-L00L00/...
weight	kg/m	G = 1.9	G = 2.1	G = 5.5


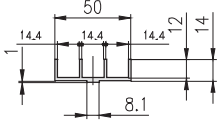

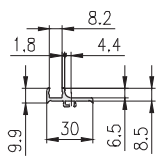
Wire net mounting profiles				
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised	 	 		
	Description	Wire net mounting profile	Wire net mounting profile 33×10	
	bar, 6 m	1.19.14230.60	1.19.1423310.60	
	cut to length	1.19.14230-A00A00/...	1.19.1423310-A00A00/...	
weight	kg/m	G = 0.3	G = 0.4	

Grab handle profiles		F-slot		
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised	 	 		
	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	

(/... = Length in mm)

U-profiles, C-track Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised	 	 	 	 	
	Description	U-profile 25×25×2	U-profile 40	U-profile 45×90	C-track
	bar, 6 m	1.19.14425.60	1.19.14440.60	1.19.1444590.60	1.19.14532.60
	cut to length	1.19.14425-A00A00/...	1.19.14440-A00A00/...	1.19.1444590-F00F00/...	1.19.14532-A00A00/...
	weight kg/m	G = 0.4	G = 1.35	G = 2.4	G = 0.6

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 33×14	Sliding profile 33×26
	bar, 6 m	1.19.15130.60	1.19.15131.60	1.19.15133.60	1.19.15134.60
	cut to length	1.19.15130-A00A00/...	1.19.15131-A00A00/...	1.19.15133-A00A00/...	1.19.15134-A00A00/...
	weight kg/m	G = 0.4	G = 0.6	G = 0.5	G = 0.8


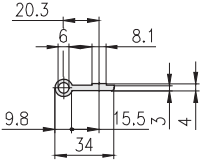

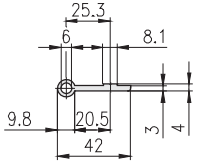

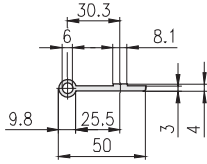

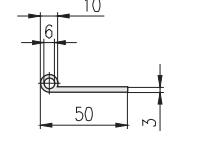
Sliding profile, Panel framing profile Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised	 		 	
	Description	Sliding profile 50×14	Panel framing profile 30×8.5	
	bar, 6 m	1.19.15150.60	1.19.15530.60	
	cut to length	1.19.15150-A00A00/...	1.19.15530-A00A00/...	
	weight kg/m	G = 0.6	G = 0.27	


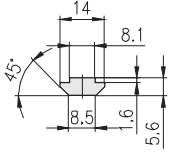

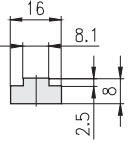

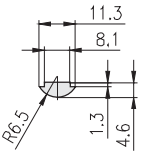

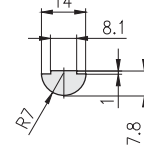
Tubes					
Technical data material: Al Mg Si 0.5 F22 tensile strength: 220 N/mm ² surface: natural anodised					
	Description	Tube Ø20×2	Tube Ø30×3	Tube Ø40×4	
	bar, 6 m	1.19.16120.60	1.19.16130.60	1.19.16140.60	
cut to length	1.19.16120-A00A00/...	1.19.16130-A00A00/...	1.19.16140-A00A00/...		
weight	kg/m	G = 0.3	G = 0.7	G = 1.3	


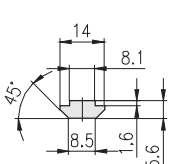

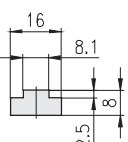
Hinge profiles 1.5 mm					
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised					
	Description	Hinge profile Type A, PG 20 - 1.5	Hinge profile Type A, PG 30 - 1.5	Hinge profile Type A, PG 40 - 1.5	Hinge profile Type A, PG 50 - 1.5
	bar, 6 m	1.19.1702002.60	1.19.1703002.60	1.19.1704002.60	1.19.1705002.60
cut to length	1.19.1702002-A00A00/...	1.19.1703002-A00A00/...	1.19.1704002-A00A00/...	1.19.1705002-A00A00/...	
weight	kg/m	G = 0.5	G = 0.3	G = 0.3	G = 0.4

Hinge profiles 2.0 mm				Hinge profile 5.0 mm surface: bare	
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised					
	Description	Hinge profile Type B, 40 mm - 2.0	Hinge profile Type B, 50 mm - 2.0	Hinge profile Type C, 30 mm - 2.0	Hinge profile Ø12
	bar, 6 m	1.19.1714002.60	1.19.1715002.60	1.19.1723002.60	1.19.174160.60
cut to length	1.19.1714002-A00A00/...	1.19.1715002-A00A00/...	1.19.1723002-A00A00/...	1.19.174160-A00A00/...	
weight	kg/m	G = 0.3	G = 0.4	G = 0.4	G = 1.25


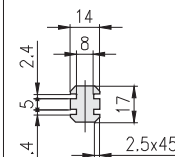

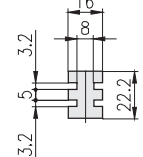

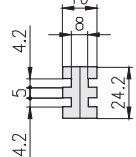
(/... = Length in mm)


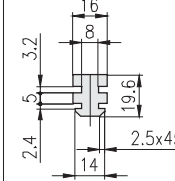

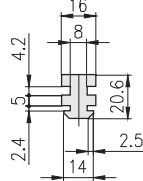

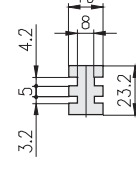
Hinge profiles 3.0 mm Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised	 	 	 	 
	Description Hinge profile Type A, PG 30 - 3.0	Description Hinge profile Type A, PG 40 - 3.0	Description Hinge profile Type A, PG 50 - 3.0	Description Hinge profile Type B, 50 mm - 3.0
bar, 6 m	1.19.1703003.60	1.19.1704003.60	1.19.1705003.60	1.19.1715003.60
cut to length	1.19.1703003-A00A00/...	1.19.1704003-A00A00/...	1.19.1705003-A00A00/...	1.19.1715003-A00A00/...
weight kg/m	G = 0.4	G = 0.5	G = 0.6	G = 0.5


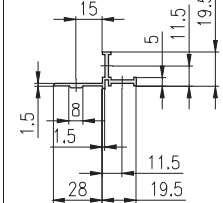

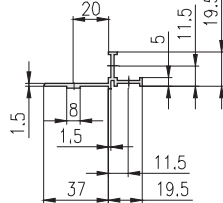

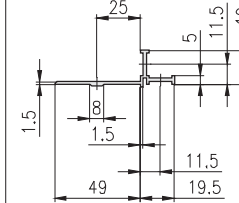
T-Slot profiles Steel Technical data material: steel C 45 K surface: bare	 	 	 	 
	Description T-Slot profile, steel, F	Description T-Slot profile, steel E	Description T-Slot profile, steel, for subsequent insertion F	Description T-Slot profiles, steel, for subsequent insertion E
bar, 3 m	1.19.1832F.30	1.19.1832E.30	1.19.1834F.30	1.19.1834E.30
cut to length	1.19.1832F-A00A00/...	1.19.1832E-A00A00/...	1.19.1834F-A00A00/...	1.19.1834E-A00A00/...
weight kg/m	G = 0.48	G = 0.96	G = 0.24	G = 0.63

T-Slot profiles PA Technical data material: PA6G + oil (murlubric or similar) surface: black	 	 		
	Description T-Slot profile, PA, F	Description T-Slot profile, PA, E		
bar, 2 m	1.19.1842F.20	1.19.1842E.20		
cut to length	1.19.1842F-A00A00/...	1.19.1842E-A00A00/...		
weight kg/m	G = 0.07	G = 0.14		



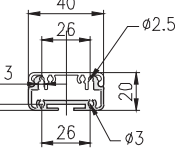
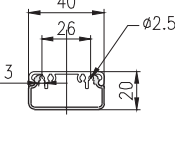


1

Slide-slot profiles PA Technical data material: PA6G + oil (murlubric or similar) surface: black	 	 	 		
	Description	Slide-slot profile, PA, F	Slide-slot profile, PA, E3	Slide-slot profile, PA, E4	
	bar, 2 m	1.19.185F2F2.20	1.19.185E3E3.20	1.19.185E4E4.20	
	cut to length	1.19.185F2F2-A00A00/...	1.19.185E3E3-A00A00/...	1.19.185E4E4-A00A00/...	
	weight kg/m	G = 0.21	G = 0.35	G = 0.46	



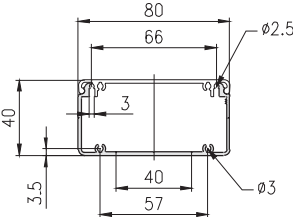

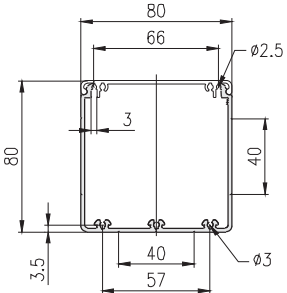
Slide-slot profiles PA Technical data material: PA6G + oil (murlubric or similar) surface: black	 	 	 		
	Description	Slide-slot profile, PA, F/E3	Slide-slot profile, PA, F/E4	Slide-slot profile, PA, E3/E4	
	bar, 2 m	1.19.185F2E3.20	1.19.185F2E4.20	1.19.185E3E4.20	
	cut to length	1.19.185F2E3-A00A00/...	1.19.185F2E4-A00A00/...	1.19.185E3E4-A00A00/...	
	weight kg/m	G = 0.27	G = 0.32	G = 0.37	

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	

(/... = Length in mm)



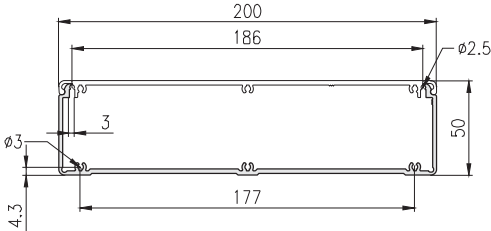
Cover profile 40 	Description		E-trunking profile, lid 40						
	bar, 6 m		1.19.2040D.60						
	packing unit	(number)	1.19.2040D.61	(8)					
	cut to length		1.19.2040D-A00A00/...						
	weight	kg/m	G = 0.35						
Base profiles 40 	Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised								
						Description		E-trunking profile 40x20, for clips	
						bar, 6 m		1.19.214020G.60	
						packing unit	(number)	1.19.214020G.61	(16)
						weight	kg/m	G = 0.50	
Description		E-trunking profile 40x20							
bar, 6 m		1.19.204020G.60							
packing unit	(number)	1.19.204020G.61	(16)						
weight	kg/m	G = 0.30							
Description		E-trunking profile 40x40							
bar, 6 m		1.19.204040G.60							
packing unit	(number)	1.19.204040G.61	(8)						
weight	kg/m	G = 0.61							
Description		E-trunking profile 40x80							
bar, 6 m		1.19.204080G.60							
packing unit	(number)	1.19.204080G.61	(4)						
weight	kg/m	G = 0.85							

 End plates  326

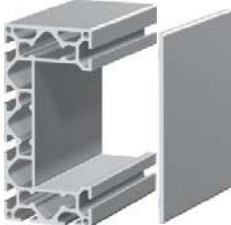


Cover profile 80 	Description		E-trunking profile, lid 80					
	bar, 6 m		1.19.2080D.60					
	packing unit	(number)	1.19.2080D.61	(4)				
	cut to length		1.19.2080D-F00F00/...					
	weight	kg/m	G = 0.59					
Base profiles 80 	Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised							
					Description		E-trunking profile 80x40	
					bar, 6 m		1.19.208040G.60	
					packing unit	(number)	1.19.208040G.61	(4)
					weight	kg/m	G = 1.20	
Description		E-trunking profile 80x80						
bar, 6 m		1.19.208080G.60						
packing unit	(number)	1.19.208080G.61	(2)					
weight	kg/m	G = 1.55						

 End plates  326

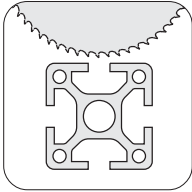

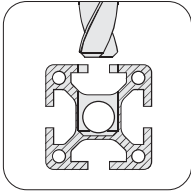

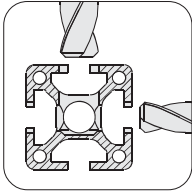

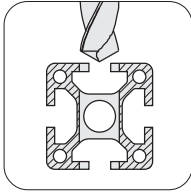

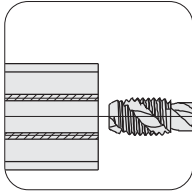

(/... = Length in mm)





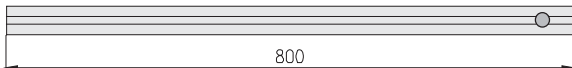
Cover profile 200		Description	E-trunking profile, lid 200
		bar, 6 m	1.19.2200D.60
Base profile 200	 	packing unit (number)	1.19.2200D.61 (2)
		cut to length	1.19.2200D-L00L00/...
		weight kg/m	G = 1.50
Technical data			
material:	Al Mg Si 0.5 F25		
tensile strength:	250 N/mm ²		
surface:	natural anodised		
Description	E-trunking profile 200×50		
bar, 6 m	1.19.220050G.60		
packing unit (number)	1.19.220050G.61 (2)		
cut to length	1.19.220050G-L00L00/...		
weight kg/m	G = 2.00		

 End plates  326

E-trunking profile 160		
	Base profile: Profile 80×160, 8E, SP  25, 324-327	Cover profile: Profile pre-cut lid 120  52, 324-327
Technical data		
material:	Al Mg Si 0.5 F25	
tensile strength:	250 N/mm ²	
surface:	natural anodised	
Description	Profile 80×160, 8E, SP	Profile pre-cut lid 120
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 I _y = 183.0	
moment of resistance cm ³	W _x = 118.0 W _y = 45.8	
weight kg/m	G = 7.9	G = 1.80

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

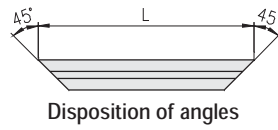
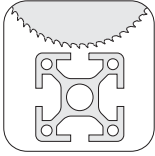
Summary				
 Saw cut  61	 Cross bushing bores for connectors  62	 Bores for parallel-connector  62	 Cross bore  62	 Thread  62
Comments <ul style="list-style-type: none"> • Profile machinings are defined by the article-number of the profile. • For more complex machinings, additional order descriptions are needed. • Non-standard machinings will be completed as per drawings 				

Order description		
Profile	machining	profile side
Order-No.: 1.□□.□□□□□□.□□□□	left right □□□□□□ / □□□□ □□□□□□ / □□□□ □□□□□□ / □□□□ □□□□□□ / □□□□ □□□□□□ / □□□□	saw cut  61 cross bushing bores, bores for parallel-connector, cross bore, thread  62 direction  62 length in mm  62
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



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

- A 0°
- B - 45° to the vertical
- C + 45° to the vertical
- D - 45° to the horizontal
- E + 45° to the horizontal

16	16×40	20	20×10	20×30	30	30×30	30	30×50	30	30×60	30	30×30	30	30×60	
40	40×40				40	40 r.30°	40	40 r.45°	40	40×40	40	40×40	40	40×40	
45	45×45				45					S	48 round				
50	50×50				50					S	50×50				

Price group 2

- F 0°
- G - 45° to the vertical
- H + 45° to the vertical
- J - 45° to the horizontal
- K + 45° to the horizontal

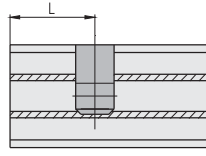
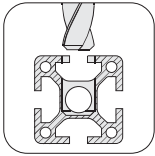
16	16×80	30	30×100			60×60			30	30×100	
40	40×60	40×80			40×120	40	40 r.60°	40	40×60	40	40×60
45	45×60	45×90	50	50×100		60	60×60	S	30 hexag.		

Price group 3

- L 0°
- M - 45° to the vertical
- N + 45° to the vertical
- O - 45° to the horizontal
- P + 45° to the horizontal

16	16×160	30	30×150	40	40×160	80×120	80×160	80×160	40 r.90°		
40	80×80						120×120				
45	90×90	50	50×150	100×100	100×200	60	60×90	S	30 octag.		

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	

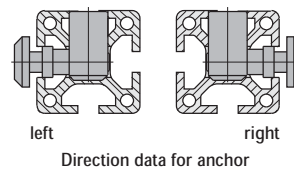
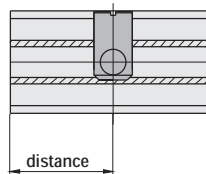
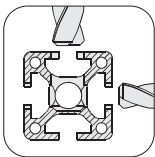
Specification for special position:

Position for cross bushing bore, left: ...

Position for cross bushing bore, right: ...

initials (↔ 63, „Direction and Position“)

Bores for parallel-connector



Parallel-connector = Z
without machining = 0

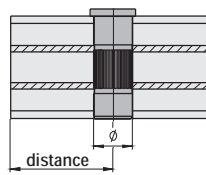
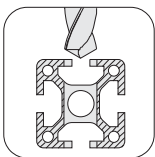
Specification for parallel-connector:

text **distance** **direction**

Parallel-connector, distance left: mm, anchor left / right

Parallel-connector, distance right: mm, anchor left / right

Cross bore



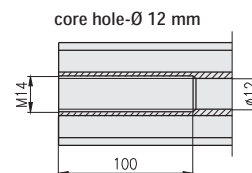
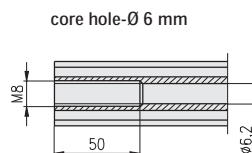
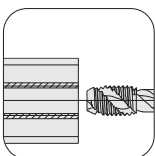
Cross bore = Q
without machining = 0

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

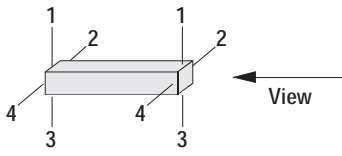
Position of thread, left: ...

Position of thread, right: ...

small letters (↔ 63, „Direction and Position“)

Further machining possibilities as per sketch.

Direction and Position

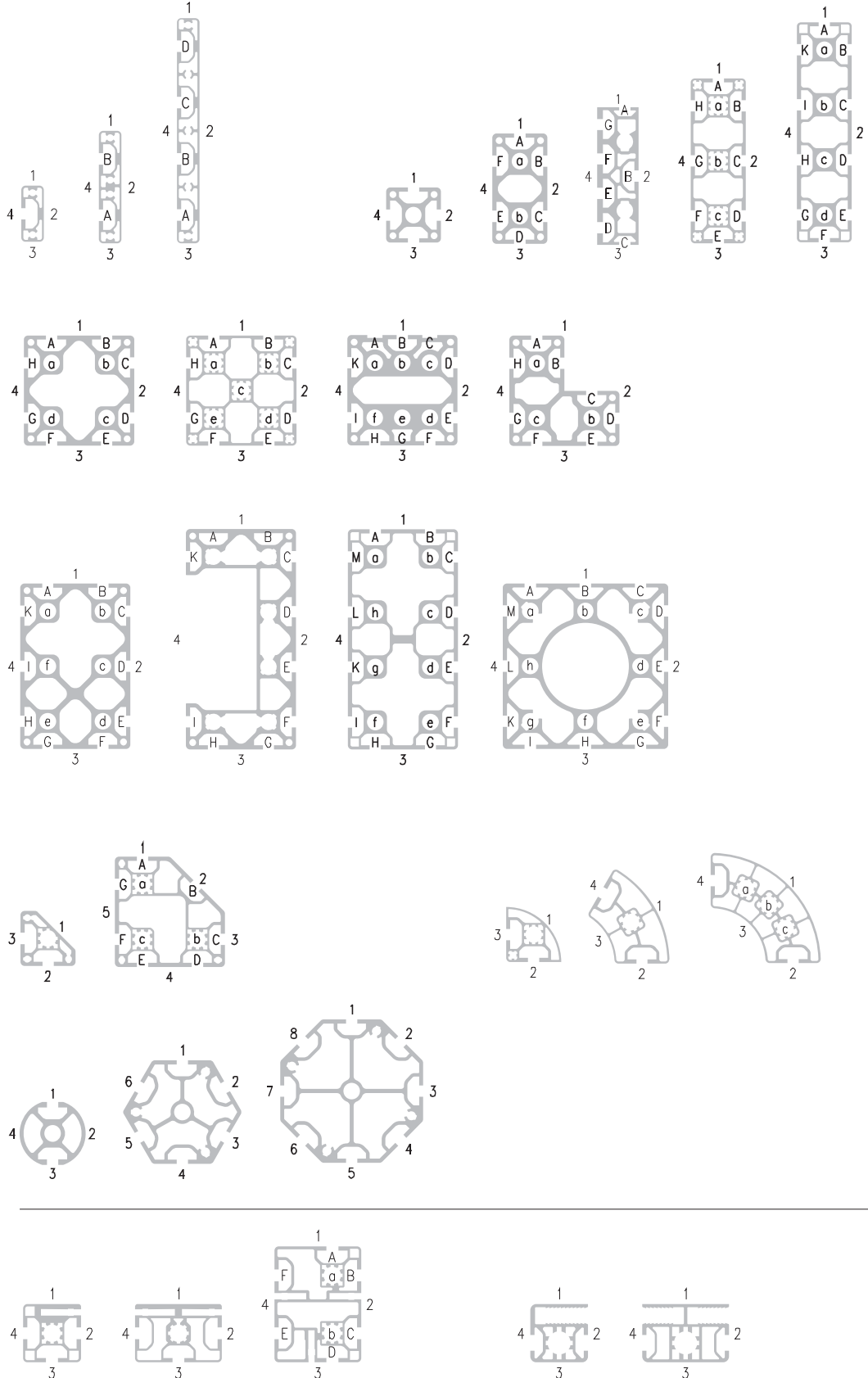


Description

Direction: 1 - 4

Position of slot: A - M





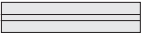











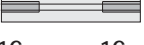














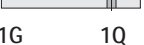






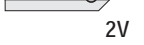


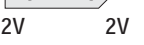

















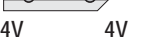
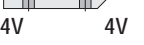



Position of thread: a - h



Coding examples for price group 1			
-A00A00	-A00A00		-A00A00
-A00AA4 1V	-A00AB4 2V	-A00AB1 2V	-A00AB4 2V
-AA4AA4 1V 1V	-AB4AB4 2V 2V	-AB1AB1 2V 2V	-AB4AB4 2V 2V
-A00AL0 1G	-A00AL0 1G		-A00AD2 4V
-AL0AL0 1G 1G	-AL0AL0 1G 1G		-AB4AD2 2V 4V
-AL0AA4 1G 1V	-AL0AB4 1G 2V	-AL0AB1 1G 2V	-AD2AD2 4V 4V
-A00AQ1 1Q	-AM0AB4 2G 2V	-AM0AB1 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	top view -A00E00	-A00CD2 4V
-A00CA4 1V	-A00CB4 2V	-A00EB1 2V	-AD2CD2 4V 4V
-AA4CA4 1V 1V	-AB4CB4 2V 2V	-AB1EB1 2V 2V	-AD1CD1 4V 4V
-AL0CA4 1G 1V	-AL0CB4 1G 2V	-AL0EB1 1G 2V	-C00C00
-C00C00	-C00C00	-E00E00	-CD2CD2 4V 4V
-CA4CA4 1V 1V	-CB4CB4 2V 2V	-EB1EB1 2V 2V	-CD1CD1 4V 4V

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




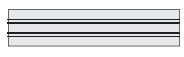
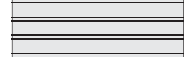
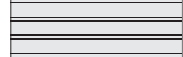
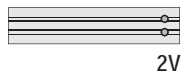
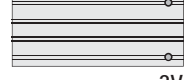
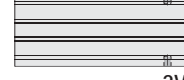
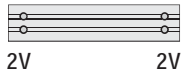
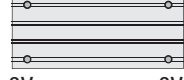
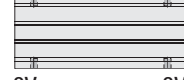
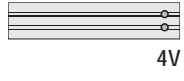
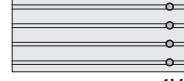
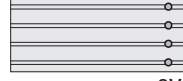
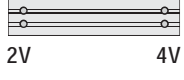
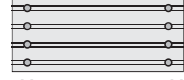
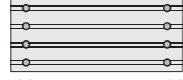
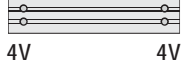
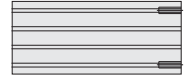
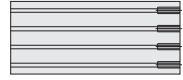
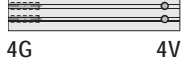
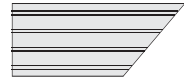
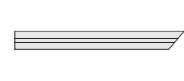

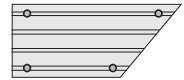
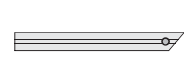
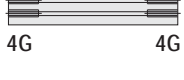
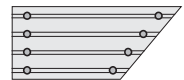


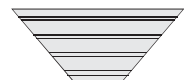

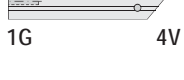
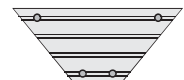


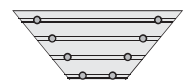
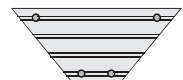

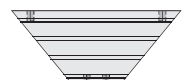
Coding examples for price group 2

	 	
 -F00F00	 -F00F00	 -F00F00
 -F00FA4 1V	 -F00FB4 2V	 -F00FB1 2V
 -FA4FA4 1V 1V	 -FB4FB4 2V 2V	 -FB1FB1 2V 2V
 -F00FLO 1G	 -F00FLO 1G	 -F00FD2 4V
 -FLOFLO 1G 1G	 -FLOFLO 1G 1G	 -FB4FD2 2V 4V
 -FLOFA4 1G 1V	 -FLOFB4 1G 2V	 -FD2FD2 4V 4V
 -F00FQ1 1Q	 -FM0FB4 2G 2V	 -FM0FB1 2G 2V
 -FA4FQ1 1V 1Q	 -F00FM0 2G	 -FP0FD2 4G 4V
 -FQ1FQ1 1Q 1Q	 -FM0FM0 2G 2G	 -F00FP0 4G
 -FLOFQ1 1G 1Q	 -FLOFM0 1G 2G	 -FP0FP0 4G 4G
 -F00H00	 -F00H00	 -F00H00
 -F00HA4 1V	 -F00HB4 2V	 -F00K00
 -FA4HA4 1V 1V	 -FB4HB4 2V 2V	 -F00KB1 2V
 -FLOHA4 1G 1V	 -FLOHB4 1G 2V	 -FB1KB1 2V 2V
 -H00H00	 -H00H00	 -FLOKB1 1G 2V
 -HA4HA4 1V 1V	 -HB4HB4 2V 2V	 -K00K00
		top view
		 -F00K00
		 -F00KB1 2V
		 -FB1KB1 2V 2V
		 -FLOKB1 1G 2V
		 -K00K00
		 -KB1KB1 2V 2V
		 -F00HD2 4V
		 -FD2HD2 4V 4V
		 -FD1HD1 4V 4V
		 -H00H00
		 -HD2HD2 4V 4V
		 -HD1HD1 4V 4V

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

1

Coding examples for price group 3

		
 -L00L00	 -L00L00	 -L00L00
 -L00LB4 2V	 -L00LB4 2V	 -L00LB1 2V
 -LB4LB4 2V 2V	 -LB4LB4 2V 2V	 -LB1LB1 2V 2V
 -L00LD2 4V	 -L00LD4 4V	 -L00LH2 8V
 -LB4LD2 2V 4V	 -LD4LD4 4V 4V	 -LH2LH2 8V 8V
 -LD2LD2 4V 4V	 -L00LM0 2G	 -L00LU0 8G
 -LP0LD2 4G 4V	 -L00N00	 -L00P00 top view
 -L00LP0 4G	 -LB4NB4 2V 2V	 -L00PB1 2V
 -LP0LP0 4G 4G	 -LD4ND4 4V 4V	 -LB1PB1 2V 2V
 -L00N00	 -N00N00	 -P00P00
 -LL0ND2 1G 4V	 -NB4NB4 2V 2V	 -PB1PB1 2V 2V
 -LD2ND2 4V 4V	 -ND4ND4 4V 4V	 -L00ND2 4V 4V
 -LD1ND1 4V 4V		 -ND1ND1 4V 4V

Order examples for special design

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)

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 A_5 : min. 10 %
 Stress point A_{10} : min. 8 %
 E-Module: approx. 70,000 N/mm²
 Brinell hardness: approx. 75 HB 2.5/187.5
 Co-efficient of elongation: $23.8 \times 10^{-6}/K$

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

Profile tolerance

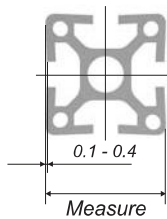
(Excerpt from DIN EN 12020-2)

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		Tolerance in mm
from	to	
-	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

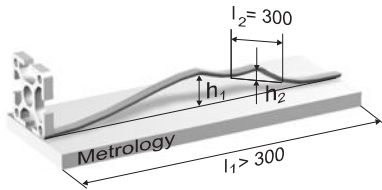
Flatness of profile surfaces



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

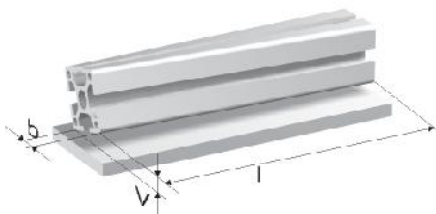


At a certain length l_1 the given tolerance h_1 is not to be exceeded. For each incremental length of $l_2 = 300$ mm the deviation h_2 is not to exceed 0.3 mm.

Straightness tolerance		
Length l_1 in m		Tolerance h_1 in mm
from	to	
-	1	0.7
1	2	1.3
2	3	1.8
3	4	2.2
4	5	2.6
5	6	3.0

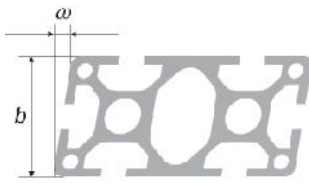
Flatness tolerance

(Twist tolerance)



Width b in mm		Flatness tolerance					
Dim. range		at length l in m					
from	to	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 mm^4
- E = Module of elasticity in N/mm^2
- E_{AL} = 70,000 N/mm^2

1) Comments

- Catalogue data in cm^4
(Note factor of conversion 10^4 !)
- The moments of inertia of a certain profile are listed on the respective profile page (see 1.09, 1.10, 1.11) and in the tables 1.1D

Type of load		
1	<p>A cantilever beam fixed at the left end and free at the right end. A downward point load F is applied at a distance l from the fixed end. The deflection f is shown at the free end.</p>	$f = \frac{F \cdot l^3}{3E \cdot J}$
2	<p>A cantilever beam fixed at the left end. Two downward point loads are applied: F_1 at distance l_1 and F_2 at distance l_2 from the fixed end. The deflection f is shown at the free end.</p>	$f = \frac{F \cdot l^3 + F_1 \cdot l_1^2 \cdot l + F_2 \cdot l_2^2 \cdot l}{3E \cdot J}$
3	<p>A cantilever beam fixed at the left end and free at the right end. A uniformly distributed load F is applied downwards along the entire length l. The deflection f is shown at the free end.</p>	$f = \frac{F \cdot l^3}{8E \cdot J}$
4	<p>A simply supported beam of length l with a downward point load F applied at the center ($l/2$). The deflection f is shown at the center.</p>	$f = \frac{F \cdot l^3}{48E \cdot J}$
5	<p>A simply supported beam of length l with a downward point load F and a clockwise moment m applied at the center. The deflection f is shown at the center.</p>	$f = \frac{F \cdot l^3}{\left(48 + \frac{29m}{l}\right) \cdot E \cdot J}$
6	<p>A simply supported beam of length l with a uniformly distributed load F applied downwards. The deflection f is shown at the center.</p>	$f = \frac{5F \cdot l^3}{384E \cdot J}$
7	<p>A simply supported beam of length l with a downward point load F applied at a distance a from the left support and b from the right support. The deflection f is shown at the point of application of the load.</p>	$f = \frac{F \cdot a^2 \cdot b^2}{3E \cdot J \cdot l}$
8	<p>A beam fixed at both ends with a downward point load F applied at the center. The deflection f is shown at the center.</p>	$f = \frac{F \cdot l^3}{192E \cdot J} \quad 2)$
9	<p>A beam fixed at both ends with a uniformly distributed load F applied downwards. The deflection f is shown at the center.</p>	$f = \frac{F \cdot l^3}{384E \cdot J}$

²⁾ approximate value

Approximate determination of deflection

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

Profile length l in mm

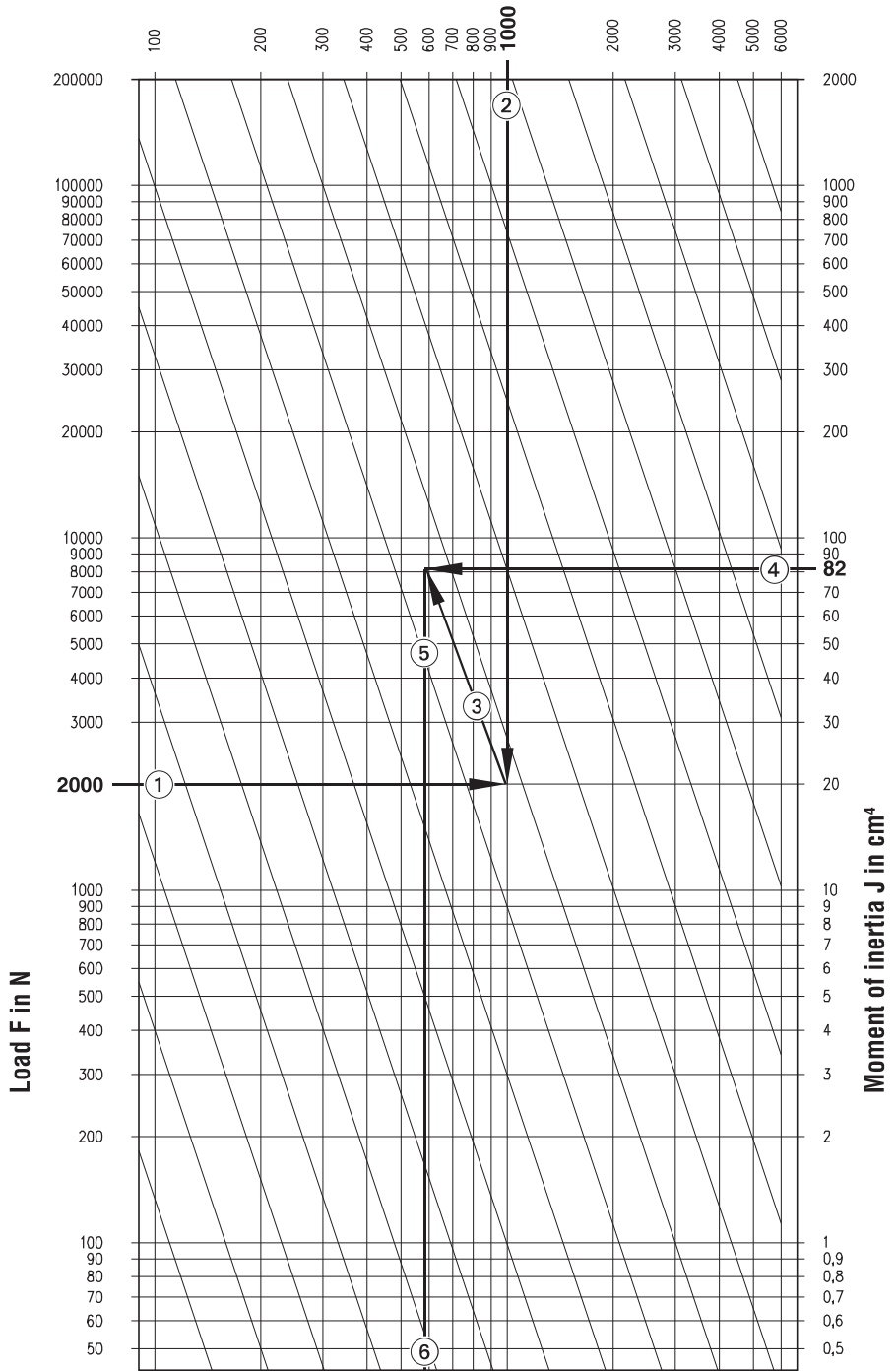
Determination of deflection

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

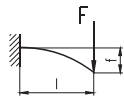
Example

- ① $F = 2,000$ N
- ② $l = 1,000$ mm
- ③ Move cross point on the diagonal
- ④ $J = 82.0$ cm^4 for profile 40x80, 6E
- ⑤ Cross point with the diagonal to be vertically extended to the bottom
- ⑥ Deflection for the specific "Type of load" in mm:

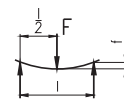
Type of load 1: $f = 9.5$ mm
 Type of load 4: $f = 0.6$ mm
 Type of load 8: $f = 0.15$ mm



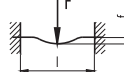
Type of load 1



Type of load 4



Type of load 8





















Deflection f in mm











Design	PG slot																		
16 F	16x40																		
E	16x40	16x80	16x160																
20 H					20x20					20x20	20x20	20x20	20x20						
F				20x10												20x30	20x30		
30 F					30x30	30x30	30x30	30x30	30x30	30x30	30x30	30x30	30x30						30x50
E4																			
40 E3					40x40	40x40	40x40		40x40	40x40	40x40	40x40		40x60					
45 E4					45x45	45x45	45x45		45x45	45x45	45x45	45x45	45x60						
50 E4					50x50				50x50	50x50	50x50	50x50							
60 E4										60x60		60x60							60x90








Profile	$I_x^{1)}$	$I_y^{1)}$	$W_x^{2)}$	$W_y^{2)}$	$G^{3)}$	β
16x40, 1F, LP	4.4	0.8	2.2	0.8	0.87	12
16x40, 1F, SP	5.3	1.0	2.7	1.0	1.0	12
16x40, 1E, LP	4.3	0.8	2.2	0.8	0.75	12
16x40, 1E, SP	7.2	1.1	3.6	1.1	1.14	12
16x80, 2E, LP	30.7	1.6	7.7	1.6	1.49	12
16x80, 2E, SP	48.3	2.2	12.0	2.2	2.11	12
16x160, 4E, LP	221.0	3.2	27.5	3.2	2.6	12
20x10, 1F, LP	0.1	0.6	0.2	0.5	0.35	15
20x20, 2H, soft, SP	0.6	0.6	0.6	0.6	0.52	13
30x30, 2F, soft, SP	2.7	2.7	1.6	1.6	0.9	16
40x40, 2E, soft, S	2.7	2.7	1.6	1.6	0.9	34
40x40, 2E, soft, LP	6.4	6.4	3.8	3.8	1.2	20
45x45, 2E, soft, L	6.4	6.4	3.8	3.8	1.2	36
45x45, 2E, soft, LP	11.4	11.4	5.1	5.1	1.6	28
50x50, 2E, soft, S	18.8	18.8	7.5	7.5	2.3	42
30x30, 0F, SP	4.4	4.4	2.3	2.3	1.3	16
40x40, 0E, SP	12.0	12.0	6.0	6.0	1.8	20
45x45, 0E, LP	15.5	15.5	6.9	6.9	2.2	28
30x30, 1F, LP	3.1	3.1	2.1	2.1	0.9	16
40x40, 1E, LP	4.3	4.0	2.9	2.6	1.2	16
40x40, 1E, LP	8.5	8.1	4.1	4.0	1.3	20
45x45, 1E, LP	14.7	15.5	6.5	6.8	2.1	28
30x30, 2F, cor., S	3.7	3.7	2.4	2.4	1.1	34
20x20, 2H, cor., SP	1.0	1.0	0.9	0.9	0.68	13
30x30, 2F, cor., LP	3.2	3.2	2.1	2.1	0.9	16
30x30, 2F, cor., SBP	3.7	3.7	2.4	2.4	1.1	16
30x30, 2F, cor., L	3.2	3.2	2.1	2.1	0.9	34
40x40, 2F, cor., SB	3.7	3.7	2.4	2.4	1.1	34
40x40, 2E, cor., LP	8.0	8.0	4.0	4.0	1.3	20
40x40, 2E, cor., SP	12.0	12.0	6.0	6.0	2.0	20
40x40, 2E, cor., L	8.0	8.0	4.0	4.0	1.3	36
40x40, 2E, cor., S	12.3	12.3	6.1	6.1	2.0	36
45x45, 2E, cor., LP	14.7	14.7	6.6	6.6	2.0	28
50x50, 2E, cor., L	16.5	16.5	6.7	6.7	1.7	42
50x50, 2E, cor., S	28.2	28.2	11.1	11.1	3.2	42
20x20, 2H, LP	1.0	0.8	1.0	0.8	0.58	13
30x30, 2F, LP	3.2	3.2	2.1	2.1	0.9	17
30x30, 2F, SP	3.6	3.9	2.4	2.6	1.1	17
40x40, 2F, L	3.2	3.2	2.2	2.2	0.9	34
40x40, 2E, LP	8.2	7.5	4.1	3.8	1.3	21
40x40, 2E, L	8.2	7.5	4.1	3.8	1.3	36
45x45, 2E, LP	14.0	15.5	6.2	6.9	2.0	29
50x50, 2E, L	17.7	13.6	7.0	5.4	1.6	42

Profile	$I_x^{1)}$	$I_y^{1)}$	$W_x^{2)}$	$W_y^{2)}$	$G^{3)}$	β
60x60, 2E, LP	35.1	37.7	11.7	12.5	2.9	32
60x60, 2E, SP	55.9	58.5	18.6	19.5	4.3	32
20x20, 3H, SP	0.9	0.9	0.9	0.9	0.65	13
30x30, 3F, LP	3.3	3.2	2.2	2.2	0.9	17
30x30, 3F, SP	3.5	3.7	2.4	2.4	1.1	17
30x30, 3F, L	3.3	3.2	2.2	2.2	0.9	34
30x30, 3F, S	3.5	3.7	2.4	2.4	1.1	34
40x40, 3E, LP	9.4	10.0	4.7	5.0	1.5	21
40x40, 3E, L	8.3	8.8	4.1	4.4	1.4	36
40x40, 3E, S	12.0	12.3	6.0	6.0	2.0	36
45x45, 3E, LP	14.0	14.7	6.2	6.5	2.1	29
50x50, 3E, L	18.4	16.0	7.3	5.8	1.9	42
50x50, 3E, S	27.3	28.2	11.1	11.1	3.1	42
20x20, 4H, LP	0.8	0.8	0.8	0.8	0.53	14
40x40, 4H, SP	0.9	0.9	0.9	0.9	0.62	14
30x30, 4F, LP	3.3	3.3	2.2	2.2	0.9	17
30x30, 4F, SP	3.5	3.5	2.4	2.4	1.1	17
30x30, 4F, L	3.3	3.3	2.2	2.2	0.9	35
30x30, 4F, S	3.5	3.5	2.4	2.4	1.1	35
40x40, 4E, LP	9.9	9.9	4.9	4.9	1.5	21
40x40, 4E, SP	12.0	12.0	6.0	6.0	2.0	21
40x40, 4E, L	9.9	9.9	4.9	4.9	1.5	37
40x40, 4E, S	12.0	12.0	6.0	6.0	2.0	37
45x45, 4E, LP	13.5	13.5	6.0	6.0	1.9	29
45x45, 4E, SP	15.5	15.5	6.9	6.9	2.1	29
45x45, 4E, L	13.5	13.5	6.0	6.0	1.9	40
45x45, 4E, S	16.8	16.8	7.4	7.4	2.3	40
50x50, 4E, L	19.2	19.2	7.7	7.7	2.2	43
50x50, 4E, S	27.3	27.3	11.0	11.0	3.1	43
60x60, 4E, LP	35.5	35.5	11.7	11.7	2.7	32
60x60, 4E, SP	56.0	56.0	18.7	18.7	4.2	32
60x60, 4E, L	35.5	35.5	11.7	11.7	2.7	44
60x60, 4E, S	56.0	56.0	18.7	18.7	4.2	44
45x60, 4E, LP	26.5	16.0	9.0	7.2	2.3	29
45x60, 4E, SP	38.0	23.5	13.0	10.4	3.0	29
45x60, 4E, L	26.5	16.0	9.0	7.2	2.3	40
45x60, 4E, S	38.8	23.5	13.0	10.4	3.0	40
40x60, 0E, LP	27.7	13.1	9.3	6.5	2.1	21
20x30, 1F, LP	2.2	1.4	1.5	1.4	0.7	15
20x30, 2F, LP	2.2	1.5	1.5	1.5	0.74	15
20x30, 2F, SP	2.6	1.9	1.7	1.7	1.0	15
60x90, 6E, L	124.0	54.0	27.5	18.0	4.0	44
60x90, 6E, S	193.0	83.0	43.0	27.5	6.0	44
30x50, 4F, L	11.0	4.3	4.8	3.3	1.3	35
30x50, 4F, S	16.9	6.6	6.7	4.4	2.0	35













¹⁾ I_x, I_y = moment of inertia in cm^4 ²⁾ W_x, W_y = moment of resistance in cm^3 ³⁾ G = weight in kg/m





















Design																		
16 F																		
E																		
20 H			20x40					20x40										
F																		
30 F	30x60							30x60				30x100	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	$I_x^{1)}$	$I_y^{1)}$	$W_x^{2)}$	$W_y^{2)}$	$G^{3)}$	β
 30x60, 0F, SP	29.0	7.8	9.6	5.2	2.2	17
40x80, 0E, LP	66.8	18.4	16.7	9.2	2.7	21
45x90, 0E, LP	107.5	30.4	23.9	13.5	3.6	29
0E, SP	134.3	36.3	29.8	16.2	4.7	29
 40x80, 3E, cor., LP	65.2	17.9	16.3	8.9	2.6	22
 20x40, 4H, SP	7.0	2.0	3.5	2.0	1.3	14
 40x80, 4E, LP	64.0	17.9	16.0	8.9	2.6	22
4E, L	63.2	17.8	15.7	8.9	2.6	37
 40x80, 4E, LBP	74.5	18.3	18.6	9.2	2.8	22
 40x80, 5E, LP	72.2	18.1	18.0	9.0	2.8	22
 20x40, 6H, LP	5.3	1.4	2.6	1.4	0.9	14
6H, SP	6.4	1.7	3.2	1.7	1.3	14
30x60, 6F, LP	21.2	5.7	7.0	3.8	1.6	17
6F, SP	25.0	7.0	8.3	4.7	2.1	17
6F, L	21.2	5.7	7.0	3.8	1.6	35
6F, S	32.0	8.0	10.9	5.4	2.1	35
40x80, 6E, LP	62.7	17.7	15.6	8.8	2.5	23
6E, SP	82.0	23.4	20.5	11.7	3.8	23
6E, XP	90.0	27.0	22.5	13.5	4.4	23
6E, L	62.7	17.0	15.6	8.5	2.6	37
6E, S	82.0	23.4	20.5	11.7	3.8	37
45x90, 6E, LP	98.0	27.5	21.8	12.2	3.3	30
6E, SP	126.0	34.0	28.0	15.0	4.4	30
6E, L	98.0	27.5	21.8	12.2	3.3	40
6E, S	126.0	34.0	28.0	15.0	4.4	40
50x100, 6E, L	138.0	37.0	27.5	14.5	3.5	43
6E, S	202.0	57.2	40.4	22.8	5.9	43
 50x100, 8E, L	137.0	40.0	27.5	16.0	4.0	43
50x100, 8E, S	200.0	53.3	39.9	21.3	6.0	43
 40x120, 8E, L	194.0	26.0	33.0	13.0	3.7	37
50x150, 8E, S	628.0	83.0	83.0	33.0	8.1	43
 30x100, 5E, 2F, SP	108.9	12.4	21.7	8.3	3.5	18

Profile	$I_x^{1)}$	$I_y^{1)}$	$W_x^{2)}$	$W_y^{2)}$	$G^{3)}$	β
 30x100, 8F, SP	115.0	11.6	22.9	7.7	3.4	18
 30x100, 9F, SP	130.6	11.9	25.9	7.9	3.6	18
 30x100, 10F, SP	127.0	11.9	25.4	7.9	3.6	19
 40x160, 6E, LP	450.4	36.3	56.3	18.1	5.0	23
 40x160, 10E, LP	433.5	33.1	54.2	16.5	4.7	23
 30x150, 8F, SP	340.0	16.0	45.0	11.0	4.1	19
 30x150, 8E, SP	481.0	25.1	64.1	16.7	7.9	19

¹⁾ I_x, I_y = moment of inertia in cm^4 ²⁾ W_x, W_y = moment of resistance in cm^3 ³⁾ G = weight in kg/m

Design	PG slot															
16	F															
	E															
20	H					40x40										
	F															
30	F	60x60				60x60		60x60								
	E4															
40	E3	80x80	80x80	80x80	80x80	80x80	80x80	80x80	80x120	80x160	80x160	80x160	120x120			
45	E4					90x90	90x90									
50	E4					100x100	100x100					100x200				
60	E4															

Profile	$I_x^{1)}$	$I_y^{1)}$	$W_x^{2)}$	$W_y^{2)}$	$G^{3)}$	β
 60x60, 0F, SP	58.2	58.2	15.5	15.5	4.0	19
 80x80, 0E, LP	135.0	135.0	33.5	33.5	4.7	24
 80x80, 4E, cor., LP	128.0	128.0	32.0	32.0	4.5	24
 80x80, 6E, LP	121.3	116.0	30.3	29.0	4.2	24
 80x80, 7E, SP	173.0	160.0	43.3	40.0	7.6	24
 80x80, 7E, SBP	145.0	141.0	36.2	35.2	5.3	24
 40x40, 8H, LP	10.0	10.0	5.0	5.0	1.5	14
 60x60, 8F, L	38.7	38.7	12.9	12.9	2.6	35
 80x80, 8E, LP	114.0	114.0	28.4	28.4	4.1	24
 80x80, 8E, SP	166.0	166.0	41.4	41.4	5.9	24
 80x80, 8E, L	111.0	111.0	28.0	28.0	3.7	38
 80x80, 8E, S	166.0	166.0	41.4	41.4	5.9	38
 90x90, 8E, LP	190.5	190.5	42.3	42.3	5.6	30
 90x90, 8E, L	183.0	183.0	40.7	40.7	5.3	40
 100x100, 8E, S	411.0	411.0	82.0	82.0	9.7	43
 80x80, 8E, LB	115.0	115.0	29.0	29.0	4.5	38
 90x90, 8E, SP	282.0	282.0	63.0	63.0	9.5	30
 90x90, 8E, S	282.0	282.0	63.0	63.0	9.5	40
 100x100, 8E, L	284.0	284.0	50.8	50.8	6.2	43
 60x60, 8F, angle, S	35.2	35.2	9.9	9.9	2.8	35
80x80, 8E, angle, S	120.0	120.0	23.8	23.8	6.3	38
80x120, 10E, SP	449.9	217.8	72.6	54.4	8.6	25
80x160, 8E, SP	944.0	183.0	118.0	45.8	7.9	25
80x160, 8E, LP	828.0	259.0	104.0	65.0	8.6	25
80x160, 12E, SP	883.0	269.0	110.0	67.3	9.4	24
80x160, 12E, L	801.0	235.0	100.0	59.0	8.8	38
80x160, 12E, S	880.0	268.0	110.0	67.0	9.4	38
100x200, 12E, SP	2,450.0	760.0	250.0	152.0	17.2	31

Profile	$I_x^{1)}$	$I_y^{1)}$	$W_x^{2)}$	$W_y^{2)}$	$G^{3)}$	β
 120x120, 12E, SP	624.0	624.0	104.0	104.0	10.6	25

¹⁾ I_x, I_y = moment of inertia in cm^4 ²⁾ W_x, W_y = moment of resistance in cm^3 ³⁾ G = weight in kg/m

Design	PG slot																
16	F																
	E																
20	H																
	F																
30	F											30 hexag.	30 octag.				
	E4																
40	E3	40x40	80x80	80x80	40x30°	40x45°	40x60°	40x90°				40 hexag.	40 octag.				
45	E4																
50	E4								48 round	48 round	48 round						
60	E4																

Profile	Ix ¹⁾	Iy ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	β
40x40, 2E, 45°, LP	7.3	7.3	3.9	3.9	1.4	27
80x80, 3E, 45°, LP	105.0	105.0	26.0	26.0	4.1	27
80x80, 7E, 45°, LP	99.3	99.3	24.8	24.8	4.0	27
40, round 30°, 2F, LP	6.0	4.8	3.0	2.4	1.2	26
40, round 30°, 2F, L	6.0	4.8	3.0	2.4	1.2	39
40, round 45°, 2E, LP	14.5	8.0	4.9	3.7	1.6	26
40, round 45°, 2E, L	14.5	8.0	4.9	3.7	1.6	39
40, round 60°, 2E, LP	30.0	10.5	7.6	4.6	1.9	26
40, round 60°, 2E, L	30.0	10.5	7.6	4.6	1.9	39

Profile	Ix ¹⁾	Iy ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	β
40, round 90°, 2E, LP	89.0	89.0	16.0	16.0	3.0	26
40, round 90°, 2E, L	89.0	89.0	16.0	16.0	3.0	39
48, round, 1E, SP	12.5	12.9	4.9	5.4	1.8	33
48, round, 2E, cor., SP	12.0	12.0	5.0	5.0	2.0	33
48, round, 2E, SP	12.5	13.5	5.1	5.9	2.0	33
30, hexag., 6F, SP	32.0	32.0	9.8	9.8	2.8	33
40, hexag., 6E, SP	83.0	83.0	21.0	21.0	4.4	33
30, octag., 8F, SP	84.0	84.0	21.0	21.0	3.9	33
40, octag., 8E, SP	233.0	233.0	44.0	44.0	6.5	33

Design	PG slot																
16	F																
	E																
20	H																
	F																
30	F	30x30	30x30	30x30	30x30		30x45	30x50	30x50								
	E4																
40	E3		40x40	40x40	40x40		40x60		40x60	60x80	60x80						
45	E4																
50	E4			50x50		50x50											
60	E4																

Profile	Ix ¹⁾	Iy ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	β
30x30, 0F, P, LP	3.8	3.8	2.4	2.4	1.10	45
30x30, 2F, P, LP 5	4.3	3.3	2.8	2.2	1.20	45
30x30, 2F, P, LP 6	3.6	2.8	2.4	1.9	1.00	45
30x30, 2F, WG, LP 7.5	2.6	3.2	1.7	2.1	0.86	48
40x40, 2E, WG, LP 7.5	7.5	8.2	3.8	4.1	1.35	48
30x30, 2F, c., P, LP 4	3.3	3.3	2.2	2.2	1.00	45
40x40, 2E, c., P, LP 4	10.3	10.3	5.2	5.2	1.80	46
50x50, 2E, c., P, LP 4	25.2	25.2	10.6	7.3	2.40	47
30x30, 3F, P, LP 4	3.3	2.8	2.2	1.8	0.90	45
40x40, 3E, P, LP 4	10.2	8.7	5.1	4.3	1.65	46
50x50, 3E, P, LP 4	23.5	20.9	9.9	8.7	2.60	47

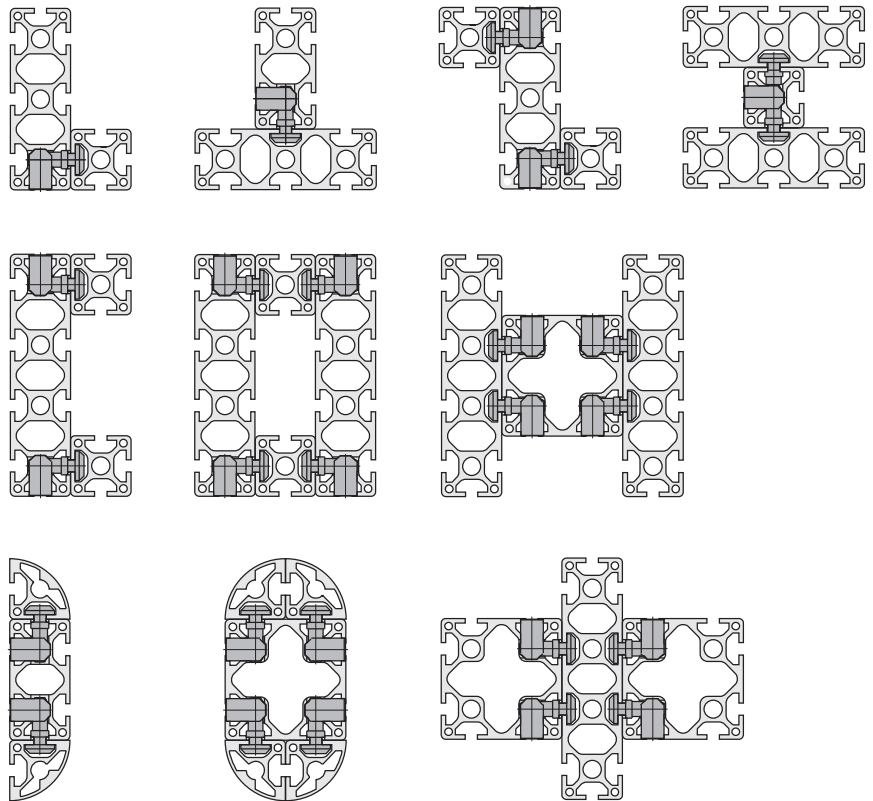
Profile	Ix ¹⁾	Iy ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	β	
30x45, 2F, WG, LP 7.5	7.5	4.3	7.4	2.9	3.3	1.15	48
40x60, 2E, 1F, WG, LP 7.5	12.2	22.5	6.1	7.5	1.97	48	
30x50, 2F, P, LP 5	7.0	14.7	4.7	5.9	1.90	45	
30x50, 3F, P, LP 4	5.5	11.8	3.6	4.8	1.5	45	
40x60, 3E, P, LP 4	14.8	26.3	7.4	8.8	2.4	46	
60x80, 5E, P, LP 4	100.4	50.4	25.1	16.8	3.8	46	
60x80, 6E, P, LP 4	85.8	50.8	21.5	16.9	3.7	46	

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

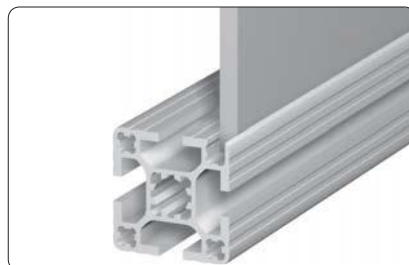
Profile combinations



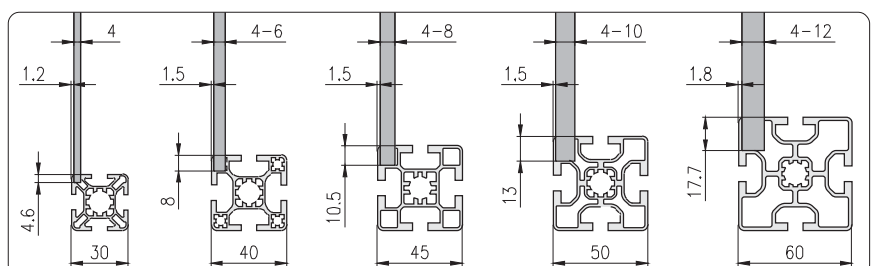
With the MayTec Connector System it is possible to make a multitude of form-matching and stable profile combinations.



Special slits

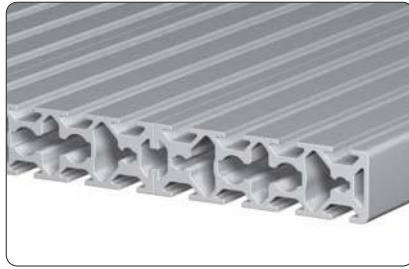


Panel elements can be set in the profile flush to the outer edge for form-matching design. The slits needed for that can be made in nearly all profiles.



Slot plates

F-slot



F-slot, slot distance 25 mm

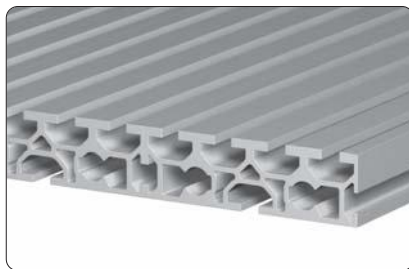


F-slot, slot distance 50 mm

Application

Profiles to construct slot plates of any required size

E-slot

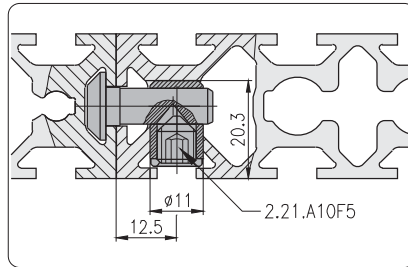
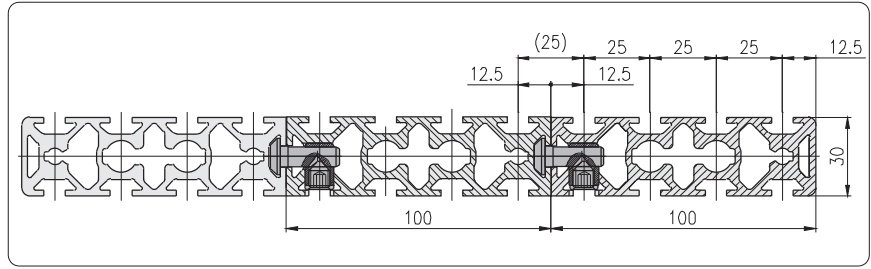


E-slot, slot distance 25 mm (on top),
100 mm (on bottom)



E-slot, slot distance 50 mm

Slot plates F-slot
Slot distance 25 mm

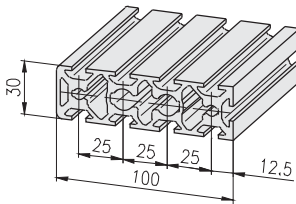


Single parts

- anchor 2.21.A10F5
- cross bushing 2.21.B10

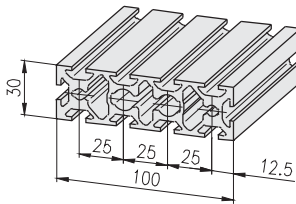
Drill dimensions

Profile 30×100, 9F, SP



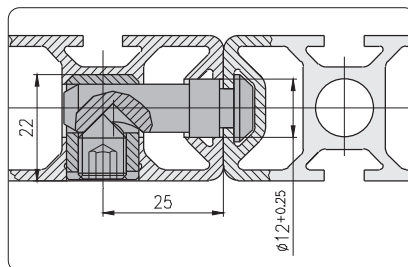
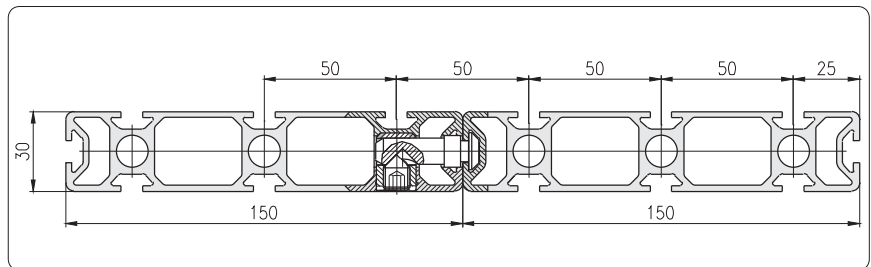
Description	Weight	Article-No.
Profile 30×100, 9F, SP	bar 6 m 3.6 kg/m	1.11.030100.94SP.60

Profile 30×100, 10F, SP



Description	Weight	Article-No.
Profile 30×100, 10F, SP	bar 6 m 3.6 kg/m	1.11.030100.104SP.60

Slot plates F-slot
Slot distance 50 mm

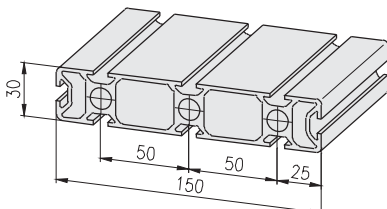


Single parts

- anchor 1.21.A5F5
- cross bushing 1.21.B30

Drill dimensions

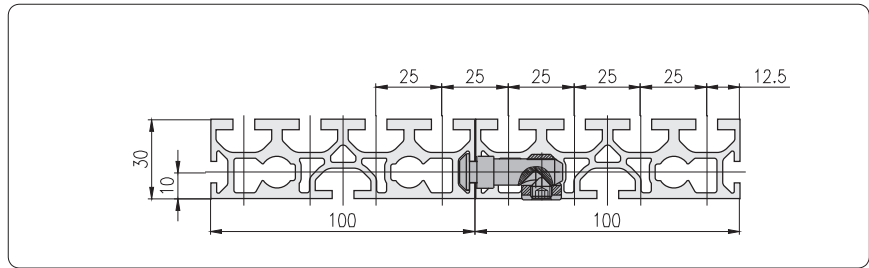
Profile 30×150, 8F, SP



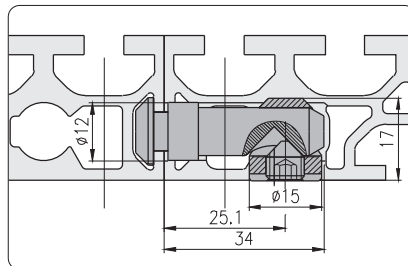
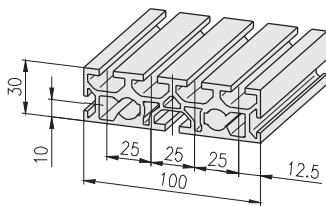
Description	Weight	Article-No.
Profile 30×150, 8F, SP	bar 6 m 4.1 kg/m	1.11.030150.85SP.60

machining data Profile machining 1.1A

Slot plates E-slot
Slot distance 25 mm



Profile 30×100, 5E, 2F, SP



Drill dimensions

Single parts

- anchor 1.21.A5F5
- cross bushing 1.21.B24

Description

Profile 30×100, 5E, 2F, SP

Weight

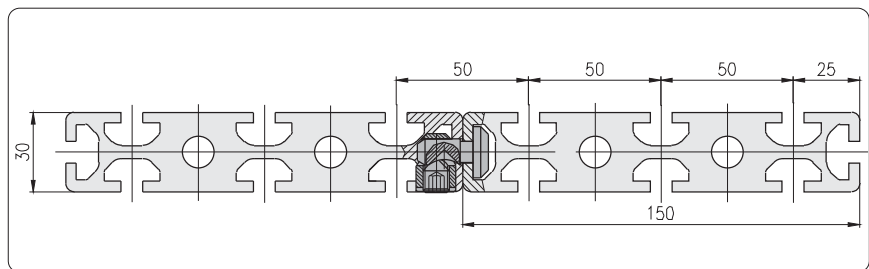
bar 6 m

3.5 kg/m

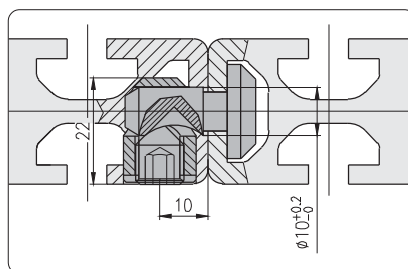
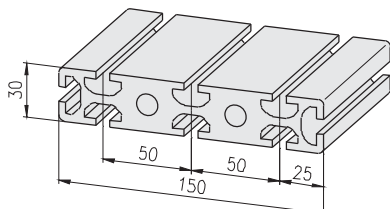
Article-No.

1.11.030100.74SP.60

Slot plates E-slot
Slot distance 50 mm



Profile 30×150, 8E, SP



Drill dimensions

Single parts

- anchor 1.21.A2E5
- cross bushing 1.21.B34

Description

Profile 30×150, 8E, SP

Weight

bar 6 m

7.9 kg/m

Article-No.

1.11.030150.84SP.60

Hand rail



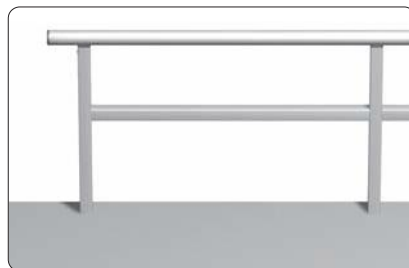
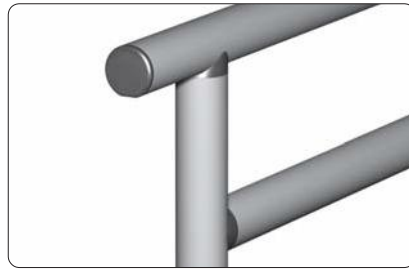
Application

Hand rail for balustrades on stairs and platforms

Comments

Angled joints: 0 deg. to 90 deg.

Incline: 0 deg. to 45 deg.



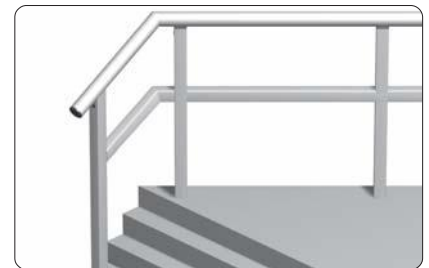
Hand rail straight



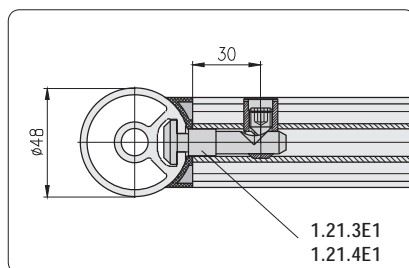
Hand rail angled



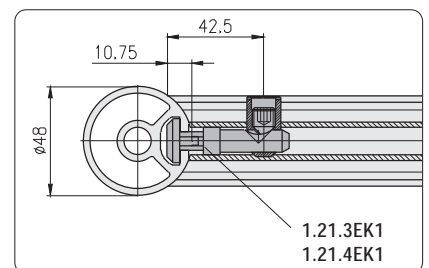
Hand rail tilted



Hand rail tilted and angled



Working dimensions for hand rail straight with radius compensation



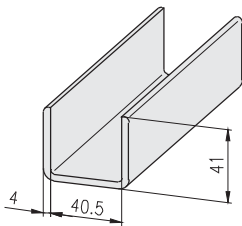
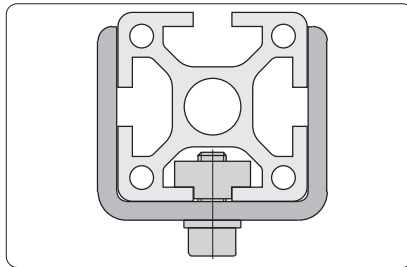
Working dimensions for hand rail straight, tilted and/or angled without radius compensation (milled)

U-Profile 40



Application

For the construction of height adjustable frames on 40x40 and 40x80 profile bases



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



Profiles for cable guide



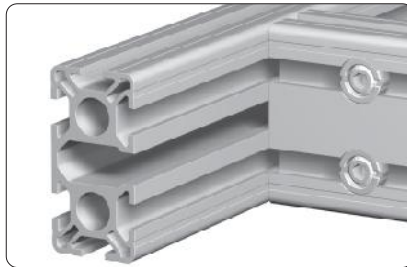
Application

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

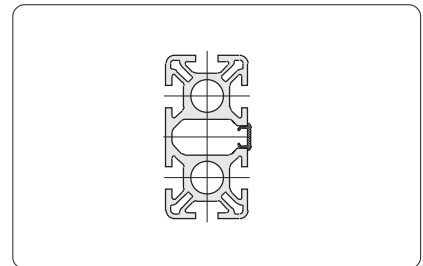
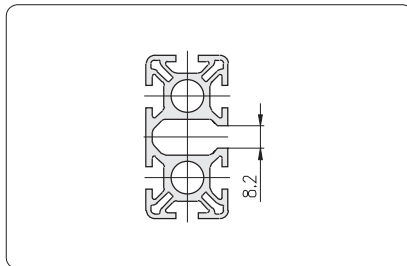
Cover is carried out by cover profiles:

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 □□□□□□ for cable guide, slotted 8 mm

1.12.□□□□□□.□□

Order example

Order request

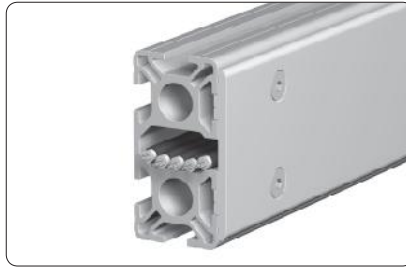
Profile 40×80 mm, 6 E-slots, heavy, 8 mm slotted for cable guide, length 4.5 m

Order

Profile 40×80, 6E S, for cable guide, slotted 8 mm

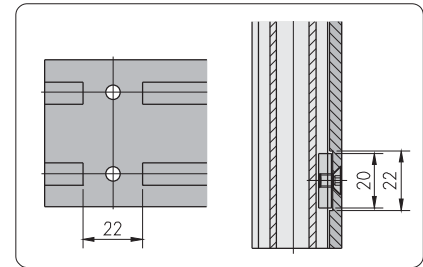
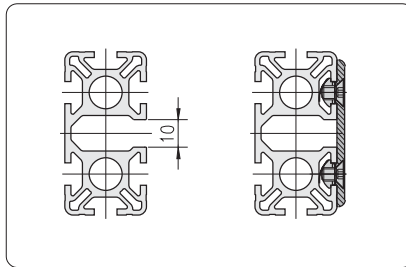
1.12.040080.65S-F00F00/4500

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
30×60	6F LP	0F SP 6F SP	6F L	6F S
60×60		0F SP	8F L	8F angle S

Order details

Description

Article-No.

Profile □□□□□□ for cable guide, slotted 10 mm

1.13.□□□□□□.□□

Order example

Order request

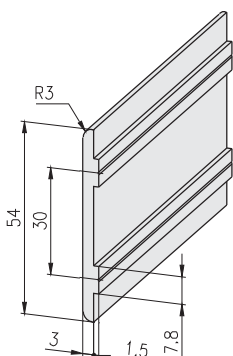
Profile 30×60 mm, 6 F-slots, heavy, 10 mm slotted for cable guide, length 4.5 m

Order

Profile 30×60, 6F S, for cable guide, slotted 10 mm

1.13.030060.65S-A00A00/4500

Profile pre-cut lid 30



Single parts

- 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

Description

Weight

Article-No.

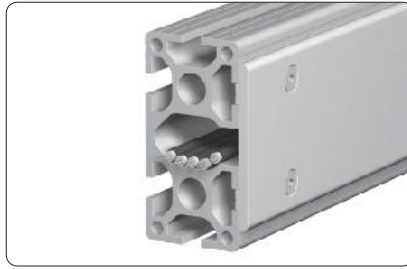
Profile pre-cut lid 30

0.49 kg/m

1.19.110130

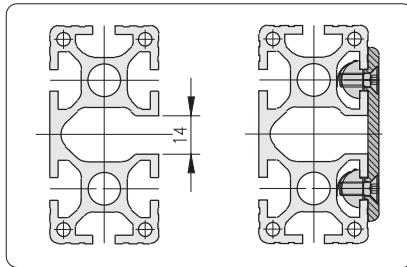
machining data Profile machining 1.1A

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, P	light		heavy	
40x80										
80x80										

Order details

Description

Profile □□□□□□ for cable guide, slotted 14 mm

Article-No.

1.13.□□□□□□.□□

Order example

Order request

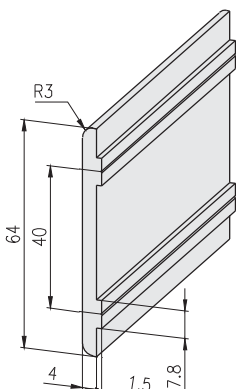
Profile 80x80 mm, 8 E-slots, heavy, 14 mm slotted for cable guide, length 4.5 m

Order

Profile 80x80, 8E S, for cable guide, slotted 14 mm

1.13.080080.83S-L00L00/4500

Profile pre-cut lid 40



Single parts

- countersunk screw DIN 7991, M6x14 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

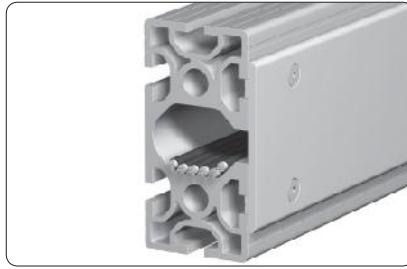
0.74 kg/m

Article-No.

1.19.110140

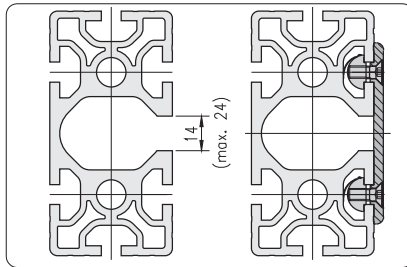
machining data Profile machining 1.1A

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	100×200	50×100	100×100	50×100	50×150	100×100	
8F SP	8F SP	12E SP	6E L	8E L	6E S	8E S	8E S	

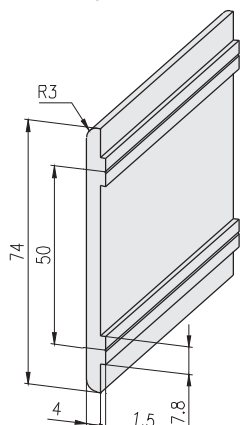
Order details

Description	Article-No.
Profile □□□□□□ for cable guide, slotted 14 mm	1.13.□□□□□□.□□

Order example

Order request	Order
Profile 50×100 mm, 6 E-slots, heavy, 14 mm slotted for cable guide, length 4.5 m	Profile 50×100, 6E S, for cable guide, slotted 14 mm
	1.13.050100.65S-F00F00/4500

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

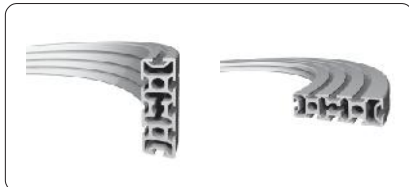
machining data Profile machining 1.1A



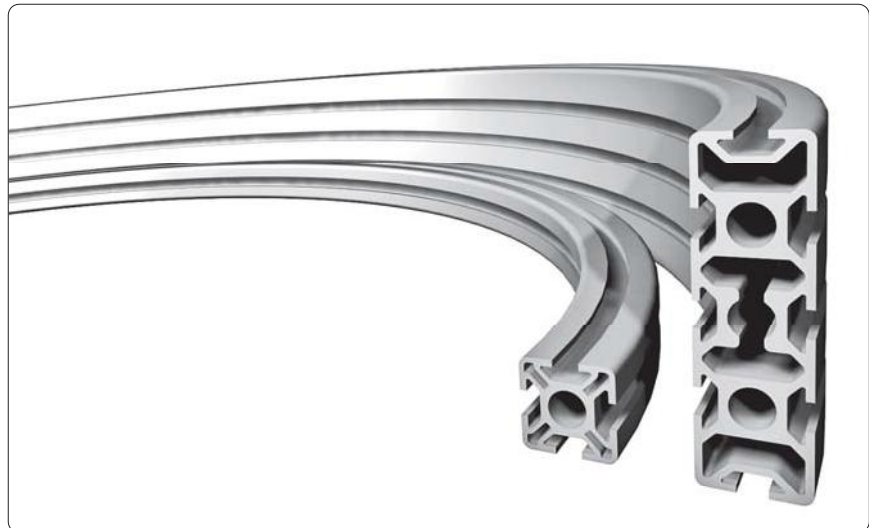
Curved profiles

For curved profiles the following data are needed:

- Profile (current conditions see table below)
- Position of profile ↗ 61
- Radius
- Direction ↗ 63
- Accuracy to size for profile elements and for profile functions



Position of profile

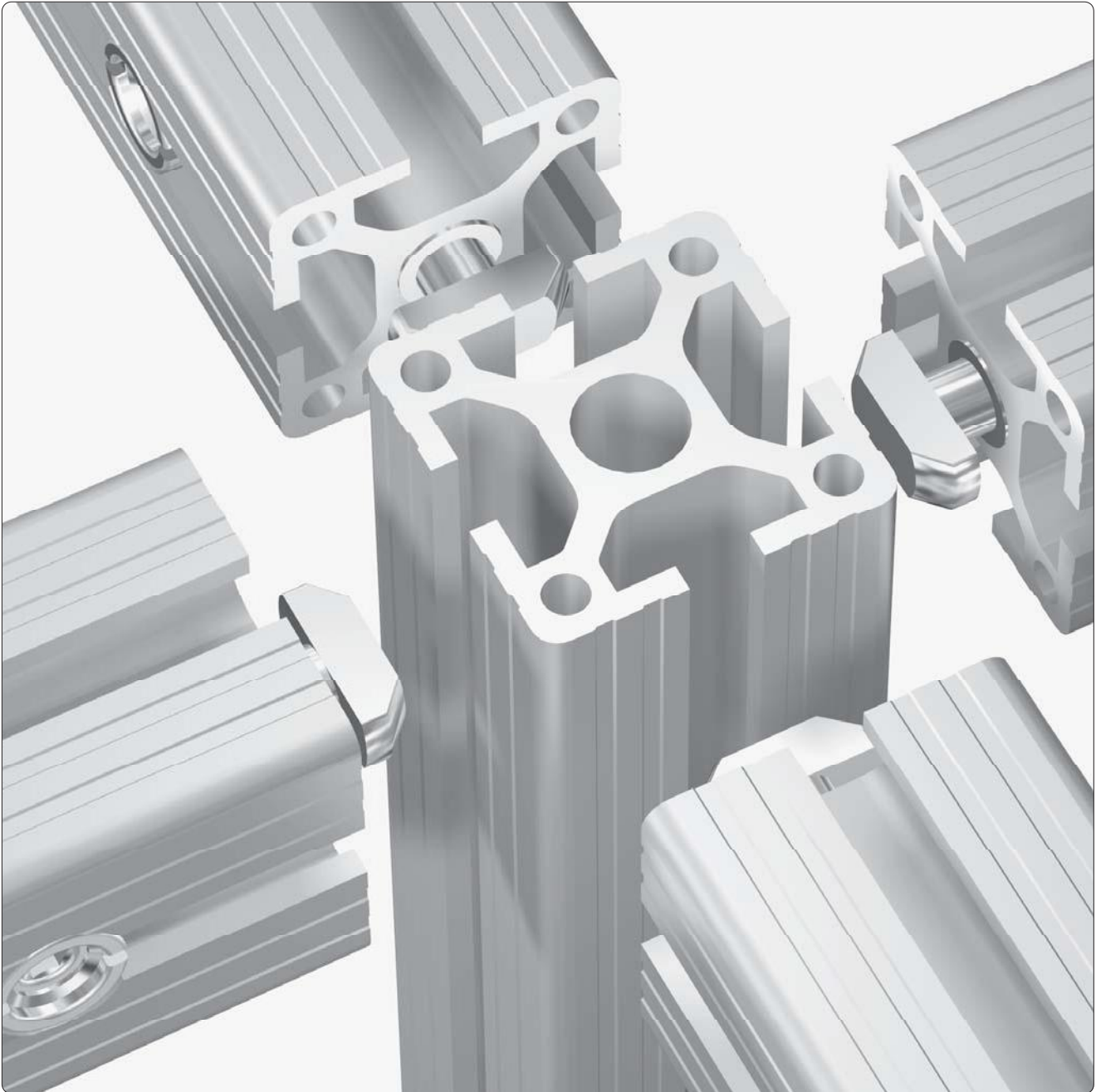


Function 'T- Nut'													Function 'threaded plate'													Function 'connector'																	
position of slot(s)													position of slot(s)													position of slot(s)													position of core hole(s)				
A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	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' ↗ 1.1A


Article-No.	PG	Profile	min. inside-Ø
1.09.016040.14SP	16	16×40, 1E, SP	400
1.10.016040.14LP		16×40, 1F, LP	400
1.10.016040.14SP		16×40, 1F, SP	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
1.11.020030.24LP		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
1.11.030030.22SB		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
1.11.030030.23L		30×30, 2F, L	700
1.11.030030.23LP		30×30, 2F, LP	700
1.11.030030.23SP		30×30, 2F, SP	700
1.11.030030.33S		30×30, 3F, S	700
1.11.030030.33L		30×30, 3F, L	700
1.11.030030.33LP		30×30, 3F, LP	700
1.11.030030.33SP		30×30, 3F, SP	700
1.11.030030.43S		30×30, 4F, S	700
1.11.030030.43L		30×30, 4F, L	700
1.11.030030.43LP		30×30, 4F, LP	700
1.11.030030.43SP		30×30, 4F, SP	700
1.11.030050.44S		30×50, 4F, S	700
1.11.030050.44L		30×50, 4F, L	700
1.11.030060.04SP		30×60, 0F, SP	700
1.11.030060.64L		30×60, 6F, L	700


Article-No.	PG	Profile	min. inside-Ø
1.11.030060.64LP	30	30×60, 6F, LP	700
1.11.030060.65S		30×60, 6F, S	700
1.11.030060.65SP		30×60, 6F, SP	700
1.11.030100.74SP		30×100, 5E, 2F, SP	700
1.11.030100.84SP		30×100, 8F, SP	700
1.11.030100.94SP		30×100, 9F, 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
1.11.040040.22S		40×40, 2E, cor., S	700
1.11.040040.22L		40×40, 2E, cor., L	700
1.11.040040.22LP		40×40, 2E, cor., LP	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
1.11.040040.33S		40×40, 3E, S	700
1.11.040040.33L		40×40, 3E, L	700
1.11.040040.33LP		40×40, 3E, LP	700
1.11.040040.43S		40×40, 4E, S	700
1.11.040040.43L		40×40, 4E, L	700
1.11.040040.43LP		40×40, 4E, LP	700
1.11.040040.43SP		40×40, 4E, SP	700
1.11.040060.04LP		40×60, 0E, LP	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
1.11.040080.65S		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



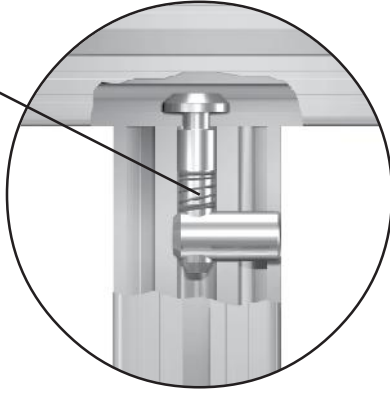
2

Simple	The proven connection system!	The connection allows:
Quick	The MayTec quick-connection system allows combination of all MayTec profiles in any way imaginable.	<ul style="list-style-type: none"> • easy machining • quick assembly • innumerable (dis)assemblies
Economical	It carries same stability out after all four sides.	The connection system is:
Functional		<ul style="list-style-type: none"> • 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



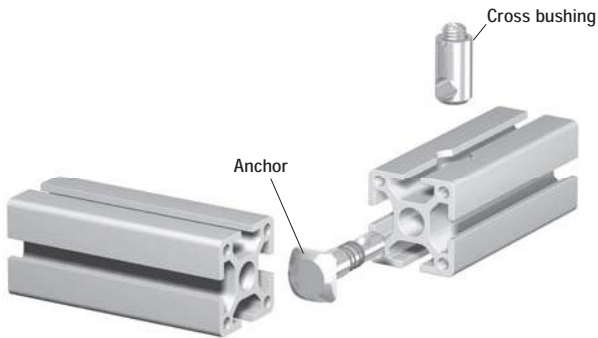
**MayTec
Universal-Connector**

18,000N
working load

**Vibration
proof**

MayTec connector with square head

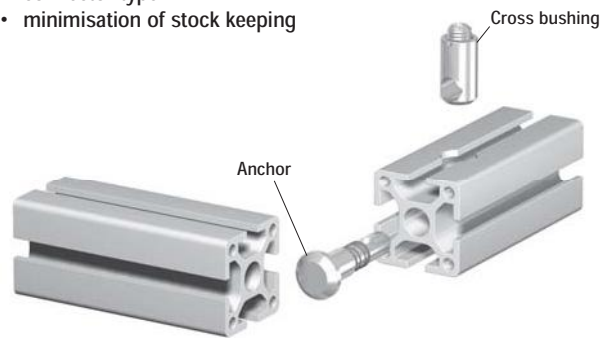
The MayTec connector with square head offers the highest load bearing capacity.



MayTec universal-connector

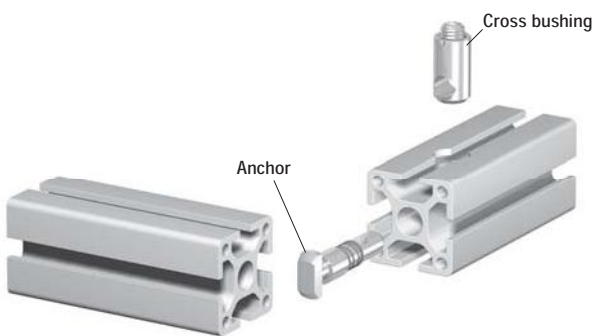
The MayTec universal-connector allows:

- 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



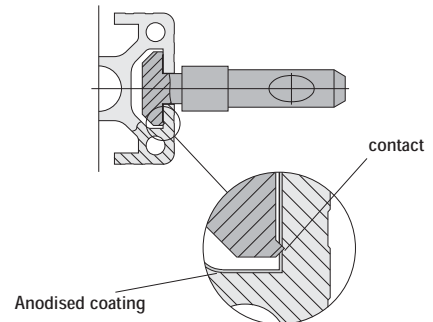
MayTec standard-connector

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



MayTec ground-connector for potential equalisation

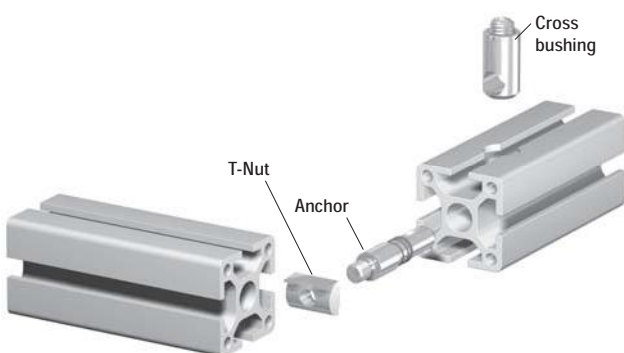
The MayTec ground-connector allows potential equalisation between two profiles. When the connector is tightened, the serration at the rear of the anchor head penetrates the anodised profile coating and thus provides an electrical contact.



Deliverable types ↗ Connectors 1.2A
Ground connections ↗ 1.70

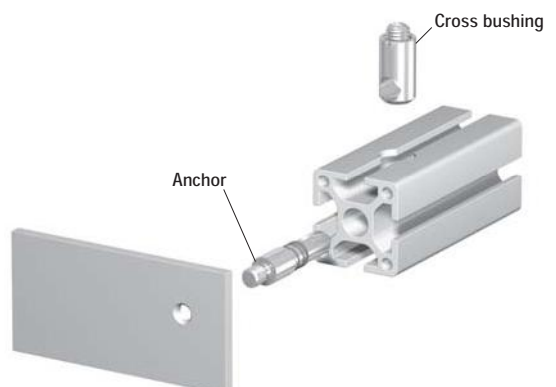
MayTec screw-type connector

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



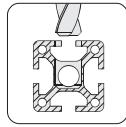
MayTec screw-type connector

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

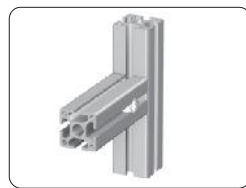
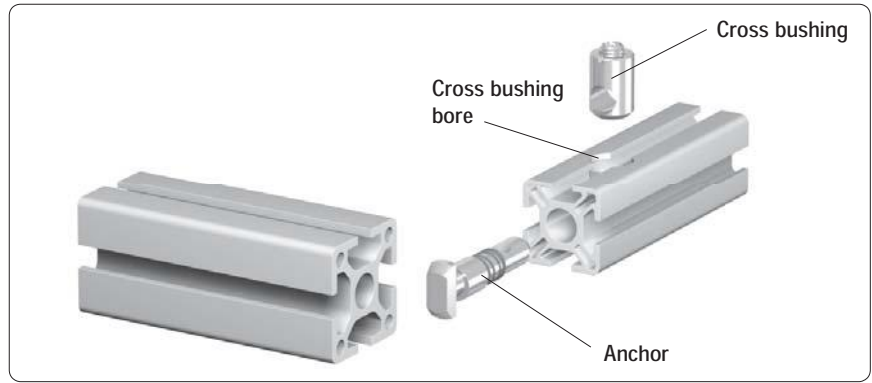


The MayTec Connector System

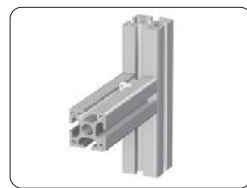
- mounting of connector in core hole
- with machining



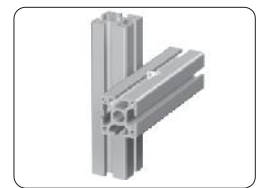
Cross bushing bore



Standard ↗ 94, 96



Screw-type ↗ 95, 100



Parallel ↗ 94, 98



Oblique ↗ 94, 96



Oblique-cross ↗ 97



Extension / Parallel ↗ 111



Miter ↗ 94, 99



Shifter ↗ 99



Extension ↗ 94, 98

Anti-twist devices



with retaining plate ↗ 134



with T-Nut ↗ 145-148

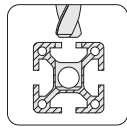
Clamping lever for connectors



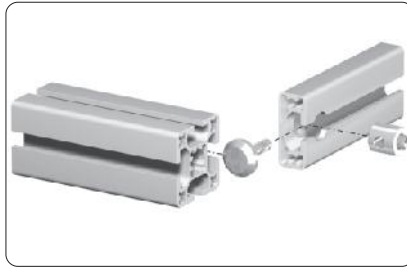
Clamping lever ↗ 137

The MayTec Connector System

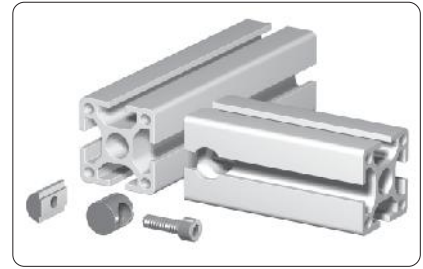
- mounting of connector in slot
- with machining



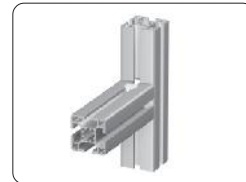
Cross bushing bore



SE-Connector ↗ 113

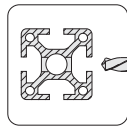
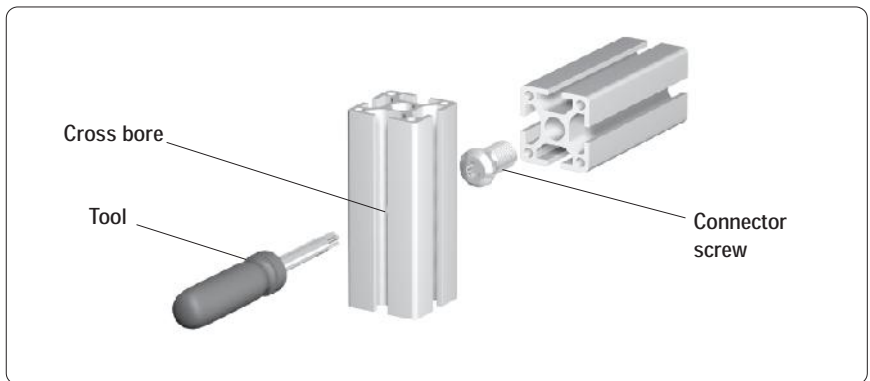


ST-Connector ↗ 114-115

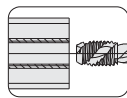


Screw-type connections

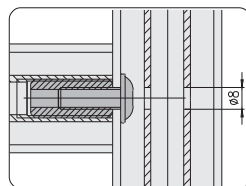
- with machining



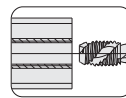
Cross bore



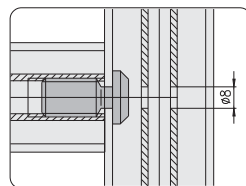
Thread



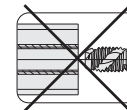
Threaded insert with lens head screw
↗ 1.35



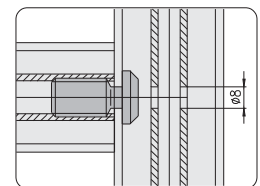
Thread



Connector screw
↗ 101



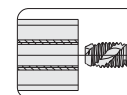
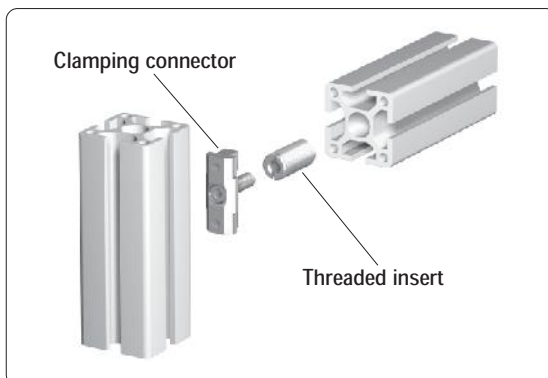
Thread



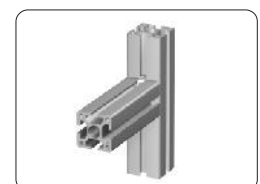
Connector screw, self-cutting
↗ 101, 116

Clamping connections

- with machining



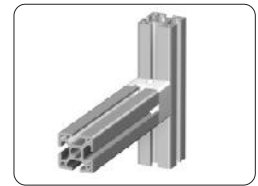
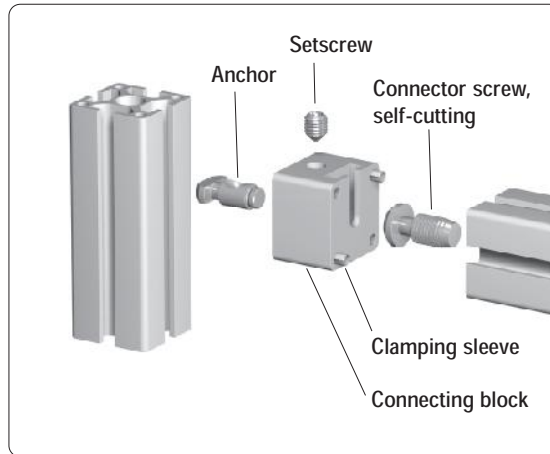
Thread



Clamping connector
↗ 123

The MayTec Connector System

- Connector kits
- without machining



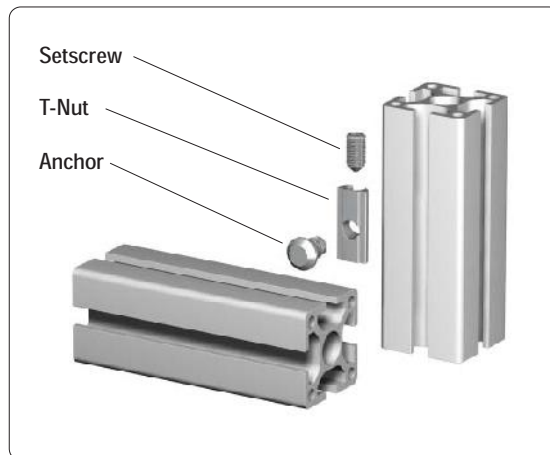
Standard ↔ 117



Parallel ↔ 118

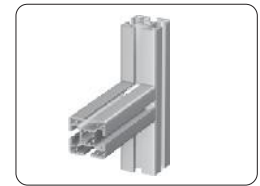
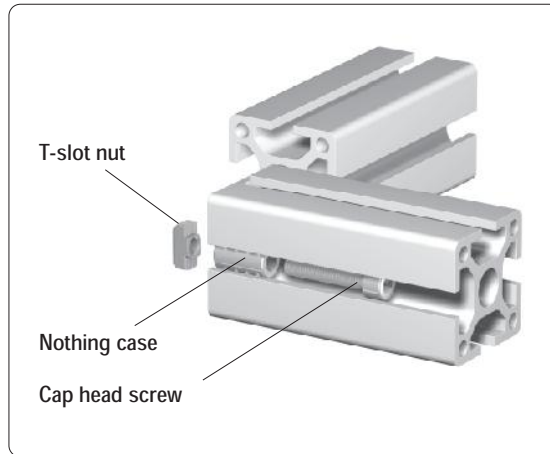
The MayTec Connector System

- Parallel connector
- without machining



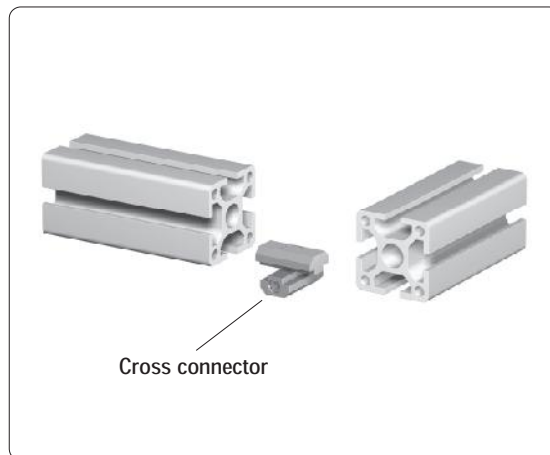
Parallel connector ↔ 122

Bayonet type connections
• without machining



Standard ↗ 119-120

Cross connections
• without machining

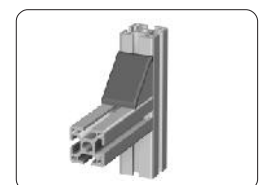


Cross connector ↗ 121

Angle connections
• without machining



Angle PA ↗ 1.46



Angle GD-Zn, GD-AI
↗ 1.46

Manufacture a connection



Example

Connection of two profiles 40x40 with one standard connector

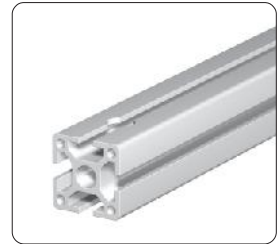
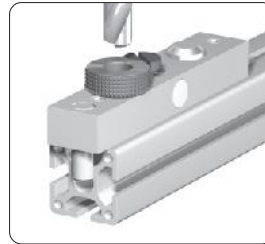
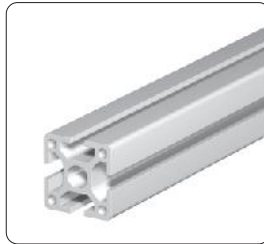
1. Connector selection

➤ 1.2, Connector selection

2. Profile machining

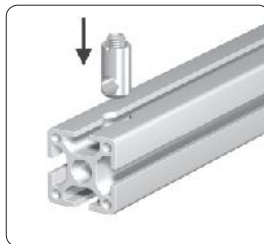
➤ 1.1A, Profile machining

➤ 1.99, Tools

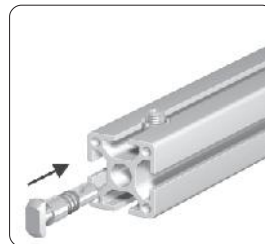


Manufacture the cross bushing bore with the aid of a drill jig

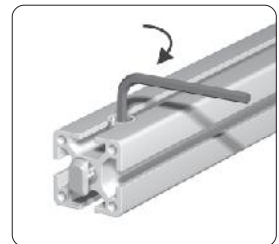
3. Pre-assembly of the connector



Insert the cross bushing

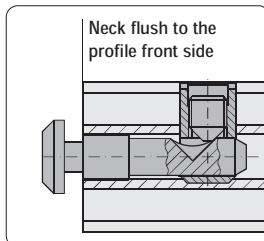


Push in the anchor



Pretension the anchor

⚠ Mounting position



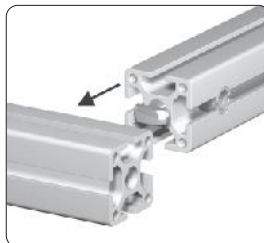
Comments

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

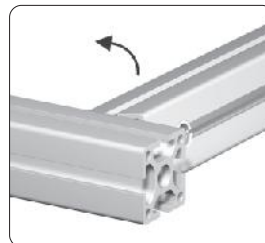
4. Final assembly

➤ 1.2F, Torque tightening values for connector setscrew

①



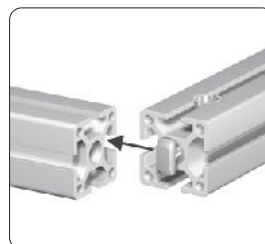
Push in sideways



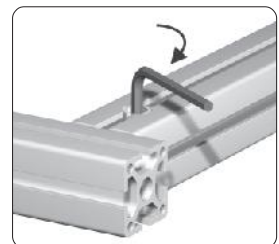
Turn the profile

or

②



Push in front sided



Tighten the setscrew

Connector selection

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

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: $490\text{-}685 \text{ N/mm}^2$ 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

Connectors for profiles with core hole-Ø 12 mm 1.2A

Connection / Connector	Finished dimension	PG	Article-No. for connector with					
			H-head		F-head		E-head	
			steel standard	VA E	steel standard	VA E	steel standard	VA E
		20	1.21.2HC		1.21.2F0	E V	1.21.2E0	E V
		30	1.21.3HC		1.21.3F0	E V	1.21.3E0	E V
		40			1.21.4F0	E V	1.21.4E0	E V
		45			1.21.45F0	E V	1.21.45E0	E V
		50			1.21.5F0	E V	1.21.5E0	E V
		60			1.21.6F0	E V	1.21.6E0	E V
		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
		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
		20			1.21.2FK1	V	1.21.2EK1	V
		30			1.21.3FK1	V	1.21.3EK1	V
		40			1.21.4FK1	V	1.21.4EK1	V
		45			1.21.45FK1	V	1.21.45EK1	V
		50			1.21.5FK1	V	1.21.5EK1	V
		60			1.21.6FK1	V	1.21.6EK1	V
		20			1.21.2FB1L/□□	E	1.21.2EB1L/□□	E
		30			1.21.3FB1L/□□	E	1.21.3EB1L/□□	E
		40			1.21.4FB1L/□□	E	1.21.4EB1L/□□	E

Connection / Connector	Finished dimension	PG	Article-No. for connector with								
			H-head		F-head		E-head				
			steel standard	E	VA	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	E	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

drill hole $\varnothing 6.5$

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

anchor mounted


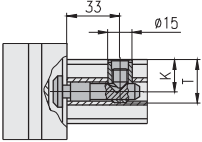

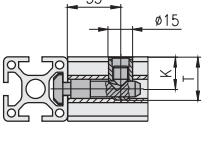

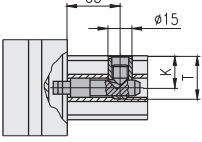

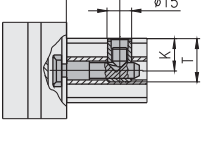

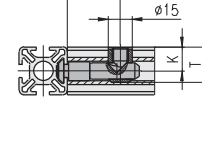

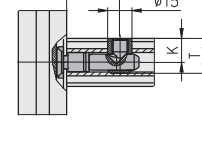

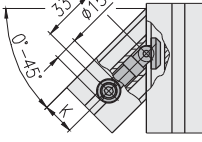

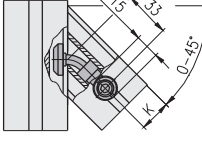
Comments
 Use drill for miter anchor Article-No.: 1.99.0310800 \rightarrow tools 1.99


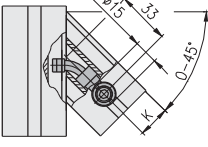

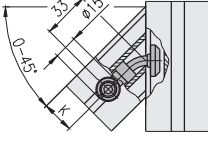

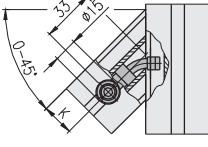

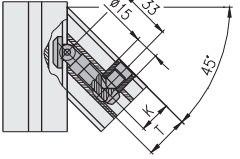

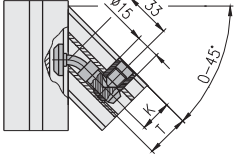

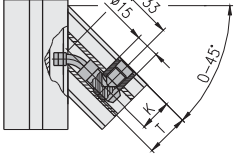

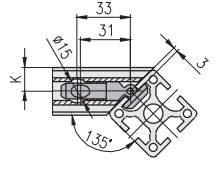

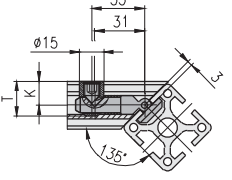
E = ground-connector, VA = stainless steel 1.4305

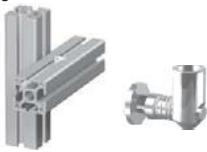
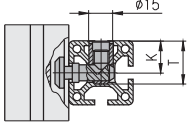
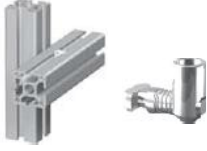
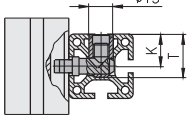

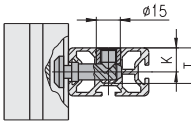
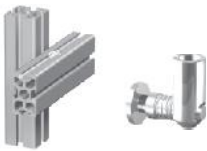
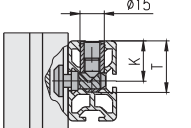
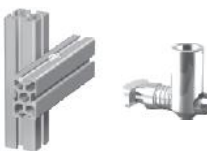
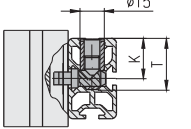
Connection variants with screw-type connectors		
Profile with profile	Profile to plate with thread	Profile to plate with through-hole


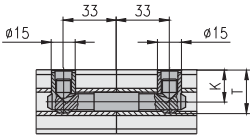

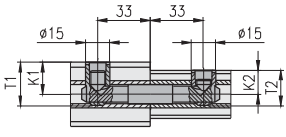
Mounting instruction for screw-type connectors
<ol style="list-style-type: none"> 1. Screw anchor in until it stops against the shoulder 2. Unscrew anchor until it lines-up with the cross bushing position (max. one turn) 3. Set up profile with cross bushing

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 					


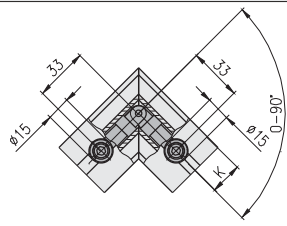

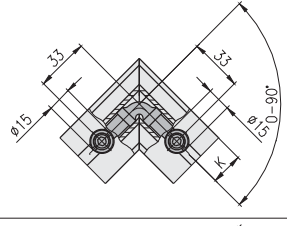

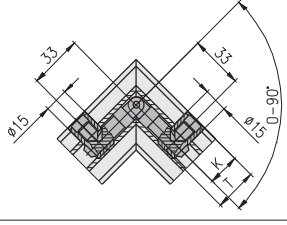
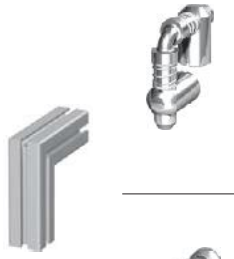
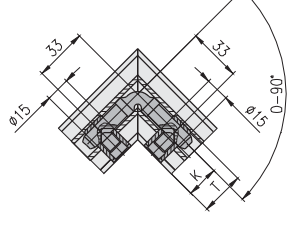

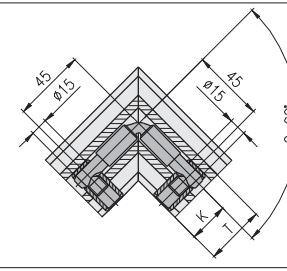

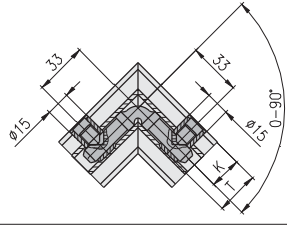

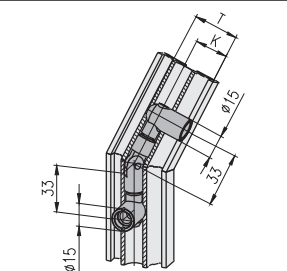
Connection / Connector	Finished dimension	PG	Article-No. for connector with								
			H-head			F-head			E-head		
			steel standard	E	VA	steel standard	E	VA	steel standard	E	VA
Universal 		20	1.21.2H0			1.21.2F0	E	V	1.21.2E0	E	V
		30	1.21.3H0			1.21.3F0	E	V	1.21.3E0	E	V
		40	1.21.40H0			1.21.4F0	E	V	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					
		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 l + r 		20				1.21.2FK1		V	1.21.2EK1		V
		30				1.21.3FK1		V	1.21.3EK1		V
		40				1.21.4FK1		V	1.21.4EK1		V
		45				1.21.45FK1		V	1.21.45EK1		V
		50				1.21.5FK1		V	1.21.5EK1		V
		60				1.21.6FK1		V	1.21.6EK1		V
-bent anchor l 		20				1.21.2FB1L/□□	E		1.21.2EB1L/□□	E	
		30				1.21.3FB1L/□□	E		1.21.3EB1L/□□	E	
		40				1.21.4FB1L/□□	E		1.21.4EB1L/□□	E	
		45				1.21.45FB1L/□□	E		1.21.45EB1L/□□	E	
		50				1.21.5FB1L/□□	E		1.21.5EB1L/□□	E	
		60				1.21.6FB1L/□□	E		1.21.6EB1L/□□	E	

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
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	VA	steel standard	E	VA	steel standard	E	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	E	VA		steel standard	E	VA
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	60/20	1.21.6/2V0	V	
		40/20	1.21.4/2V0		V	30	1.21.6/3V0	V	
		30	1.21.4/3V0		V	40	1.21.6/4V0	V	
		45/20	1.21.45/2V0		V	45	1.21.6/45V0	V	
		30	1.21.45/3V0		V	50	1.21.6/5V0	V	
		40	1.21.45/4V0		V				
		50/20	1.21.5/2V0		V				
		30	1.21.5/3V0		V				
		40	1.21.5/4V0		V				
		45	1.21.5/45V0		V				

E = ground-connector, VA = stainless steel 1.4305

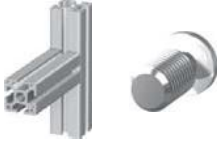
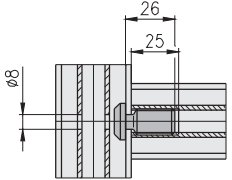
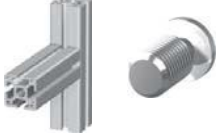
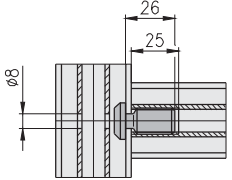
Connection / Connector	Finished dimension	PG	Article-No. for connector	
			steel standard	VA
Miter -hinge l + r 		20	1.21.2G1	V
		30	1.21.3G1	V
		40	1.21.4G1	V
		45	1.21.45G1	V
		50	1.21.5G1	V
		60	1.21.6G1	V
-bent anchor l + r 		20	1.21.2GB1/□□	
		30	1.21.3GB1/□□	
		40	1.21.4GB1/□□	
		45	1.21.45GB1/□□	
		50	1.21.5GB1/□□	
		60	1.21.6GB1/□□	
Miter 90° -hinge l + r 		20	1.21.2G2	V
		30	1.21.3G2	V
		40	1.21.4G2	V
		45	1.21.45G2	V
		50	1.21.5G2	V
		60	1.21.6G2	V
-bent anchor l 		20	1.21.2GB2L/□□	
		30	1.21.3GB2L/□□	
		40	1.21.4GB2L/□□	
		45	1.21.45GB2L/□□	
		50		
		60		
		20		
		30		
		40		
		45		
		50	1.21.5GB2L/□□	
		60	1.21.6GB2L/□□	
-bent anchor r 		20	1.21.2GB2R/□□	
		30	1.21.3GB2R/□□	
		40	1.21.4GB2R/□□	
		45	1.21.45GB2R/□□	
		50	1.21.5GB2R/□□	
		60	1.21.6GB2R/□□	
Shifter 		20	1.21.2GS	
		30	1.21.3GS	
		40	1.21.4GS	
		45	1.21.45GS	
		50	1.21.5GS	
		60	1.21.6GS	

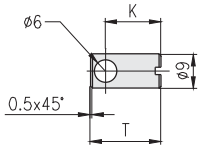
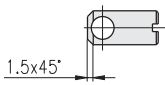

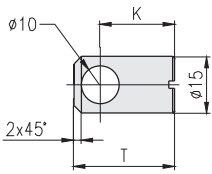
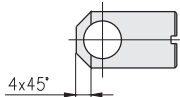
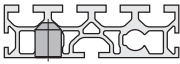



Connection variants with screw-type connectors		
Profile with profile	Profile to plate with thread	Profile to plate with through-hole

Mounting instruction for screw-type connectors
<ol style="list-style-type: none"> 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				
				Length of thread		Length of thread		Length of thread				
				7 mm	11 mm	40 mm						
				steel standard	VA	steel standard	VA	steel standard	VA	steel standard	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				
		30		1.21.30S1M8/7		1.21.3S1M8/11		V				
		40		1.21.40S1M8/7		1.21.4S1M8/11		V				
		45		1.21.45S1M8/7		1.21.45S1M8/11		V				
		50		1.21.50S1M8/7		1.21.5S1M8/11		V				
		60		1.21.60S1M8/7		1.21.6S1M8/11		V				
	20	M8						1.21.2S1M8/40				
	30								1.21.3S1M8/40			
	40								1.21.4S1M8/40			
	45								1.21.45S1M8/40			
	50								1.21.5S1M8/40			
	60								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										
-high 		20	M8									
		30					1.21.3/2S5M8/11					
		40										
		45						1.21.5/3S5M8/11				

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	Article-No.		
							steel	VA	
H-slots									
	0,5x45°	Standard		20	10	14	1.20.B21	V	
							1.20.B22		
	1,5x45°	 1.10.020020.21SP		20	10	14			
F + E-slots									
	2x45°	Standard		20	10	17	1.21.B20	V	
				30	15	22	1.21.B30	V	
				40	20	27	1.21.B40	V	
				40	20	27	1.21.B40R		
				45	22.5	29.5	1.21.B45	V	
				50	25	32	1.21.B50	V	
				60	30	37	1.21.B60	V	
	4x45°	 1.11.030100.74SP		20	10	17	1.21.B24		
				 1.11.030030.21S(P)	30	15	22	1.21.B34	
				 1.11.030150.84SP	40	20	27	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	Article-No.	
					steel	VA
E-slots						
Special- universal-connector for profile 30×150 <i>↗ 110</i>		30×150	15	30	1.21.B31	
Special- SE-Connector <i>↗ 113</i>		16, E3	-	15	1.21.BE3	
		E4	-	16	1.21.BE4	
Special- ST-Connector <i>↗ 114</i>		E	-	19	1.21.STBM6	
Special- ST-Connector with screw-type anchor <i>↗ 115</i>		16, E3	-	40	1.21.STSB40	

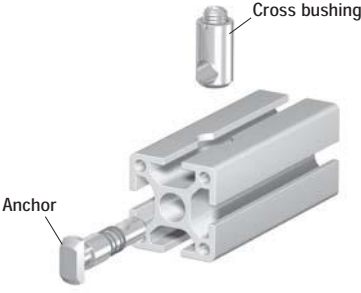
tools *↗ 1.99*, VA = stainless steel 1.4305



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



As an alternative to the complete connector it is also possible to order the component parts.
Because of the extensive combination possibilities, storage of the complete connectors will be reduced by over 80%.

Connector components for profiles with
core hole-Ø 6 mm → 105
core hole-Ø 12 mm → 106-109

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

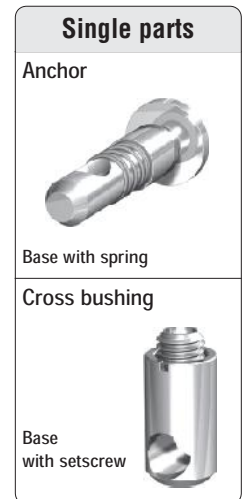
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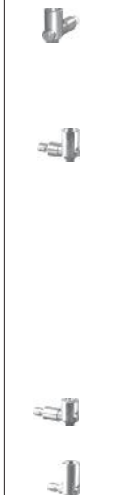
Connector for core hole-Ø 12 mm			Connectors, complete										
			PG 20		PG 30		PG 40						
			steel standard	E VA	steel standard	E VA	steel standard	E VA					
		Universal	1.21.2H0			1.21.3H0			1.21.4H0				
			1.21.2F0	E	V	1.21.3F0	E	V	1.21.4F0	E	V		
			1.21.2E0	E	V	1.21.3E0	E	V	1.21.4E0	E	V		
		Standard	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		
		Universal	1.21.20E40			1.21.30E40			1.21.40E40				
		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/□□				
		-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/□□				
		90°		-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
-bent anchor	1.21.2FB2/□□			E		1.21.3FB2/□□	E		1.21.4FB2/□□	E			
	1.21.2EB2/□□	E		1.21.3EB2/□□	E		1.21.4EB2/□□	E					
-bent anchor 90°	1.21.2F2B2/□□			1.21.3F2B2/□□			1.21.4F2B2/□□						
	1.21.2E2B2/□□			1.21.3E2B2/□□			1.21.4E2B2/□□						
		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⁾							
		1.21.2/3F5 ¹⁾	1.21.2/3E5 ¹⁾				1.21.3F5						
							1.21.3E5						
		-square 90°					1.21.3E2-5						
										1.21.4F5			
		-cross ¹⁾								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

PG 45						PG 50						PG 60						Single parts			
steel standard		E	VA	steel standard		E	VA	steel standard		E	VA	Anchor		steel standard		E	VA	Piece			
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				<i>Cross bushing, steel</i>									
1.21.B45	V			1.21.B50	V			1.21.B60	V			<i>Cross bushing, VA</i>									

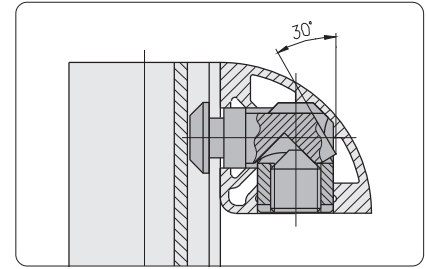


Connector for core hole-Ø 12 mm				Connectors, complete									
				PG 20		PG 30		PG 40					
				steel standard	E	VA	steel standard	E	VA	steel standard	E	VA	
		Miter	-hinge l + r	1.21.2G1		V	1.21.3G1		V	1.21.4G1		V	
			-bent anchor l + r	1.21.2GB1/□□			1.21.3GB1/□□			1.21.4GB1/□□			
		90°	-hinge l + 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/□□			
		Shifter		1.21.2GS			1.21.3GS			1.21.4GS			
		Extension		1.21.2V0		V	1.21.3V0		V	1.21.4V0		V	
							1.21.3/2V0		V	1.21.4/2V0		V	
										1.21.4/3V0		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				1.21.4S5M8/7	
						1.21.3S5M8/11				1.21.4S5M8/11			
			-Parallel-cross	1.21.2/3S5M8/11			1.21.3/5S5M8/11						
			-Parallel-high				1.21.3/2S5M8/11						

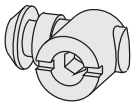
	Cross bushing, steel	1.21.B20			1.21.B30			1.21.B40		
	Cross bushing, VA		1.21.B20	V		1.21.B30	V		1.21.B40	V

						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	E	VA steel standard	E						
1.21.45G1		V 1.21.5G1		V 1.21.6G1		V 1.21.A1G1		V 1	2				
1.21.45GB1/□□		V 1.21.5GB1/□□		V 1.21.6GB1/□□		V 1.21.A1GB1/□□		V 1	2				
1.21.45G2		V 1.21.5G2		V 1.21.6G2		V 1.21.A1G2		V 1	2				
1.21.45GB2L/□□		V 1.21.5GB2L/□□		V 1.21.6GB2L/□□		V 1.21.A1GB2L/□□		V 1	2				
1.21.45GB2R/□□		V 1.21.5GB2R/□□		V 1.21.6GB2R/□□		V 1.21.A1GB245L/□□		V 1	2				
						V 1.21.A1GB2R/□□		V 1	2				
1.21.45GS		V 1.21.5GS		V 1.21.6GS		V 1.21.A1GS		V 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	-
		V 1.21.5/45V0		V 1.21.6/45V0		V 1.21.A1V0		V 1	1	-	-	-	1
				V 1.21.6/5V0		V 1.21.A1V0		V 1	1	-	-	-	1
1.21.45S1M6/11		V 1.21.5S1M6/11		V 1.21.6S1M6/11		V 1.21.A1SM6/11		V 1	1				
1.21.45S1M8/7		V 1.21.5S1M8/7		V 1.21.6S1M8/7		V 1.21.A1SM8/7		V 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		V 1.21.5S1M8/40		V 1.21.6S1M8/40		V 1.21.A1SM8/40		V 1	1				
						V 1.21.A2SM8/11		V 1	1				
						V 1.21.A3SM8/7		V 1	1				
						V 1.21.A3SM8/11		V 1	1				
						V 1.21.A4SM8/7		V 1	1				
1.21.45S5M8/11						V 1.21.A4SM8/11		V 1	1				
						V 1.21.A45SM8/11		V 1	1				
		V 1.21.5S5M8/11		V 1.21.6S5M8/11		V 1.21.A5SM8/11		V 1	1				
						V 1.21.A6SM8/11		V 1	1				
						V 1.21.A3SM8/11		V 1	1				
						V 1.21.A5SM8/11		V 1	1				
						V 1.21.A2SM8/11		V 1	1				
		V 1.21.5/3S5M8/11				V 1.21.A3SM8/11		V 1	1				
1.21.B45		V 1.21.B50		V 1.21.B60		<i>Cross bushing, steel</i>							
1.21.B45	V	1.21.B50	V	1.21.B60	V	<i>Cross bushing, VA</i>							



**Parallel connector
for profile 30×30, soft**

Application

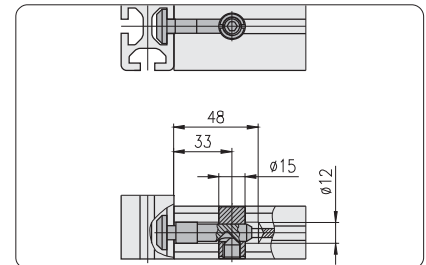
Special anchor for parallel connector for profile 30×30, 2 F-slots, soft



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

Single parts

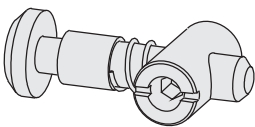
Description	Weight	Article-No.
Anchor, incl. spring	23 g	1.21.A31E5
Anchor, incl. spring	16 g	1.21.A31F5
Cross bushing, incl. setscrew	17 g	1.21.B34

**Universal connector
for profile 30×150**


Drill dimensions

Application

Universal connector for connection of two profiles 30×150
Alternative connection possibility
↔ *ST-Connector, 114*

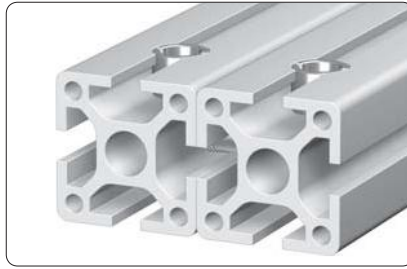


Description	Weight	Article-No.
Connector, universal	68 g	1.21.31E0

Single parts

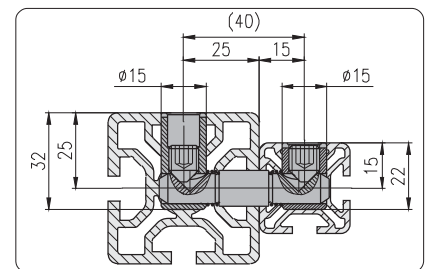
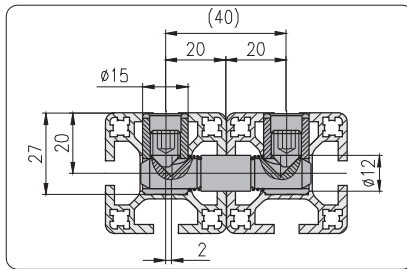
Description	Weight	Article-No.
Anchor, incl. spring	41 g	1.21.A1E0
Cross bushing, incl. setscrew	27 g	1.21.B31

Extension / parallel connector

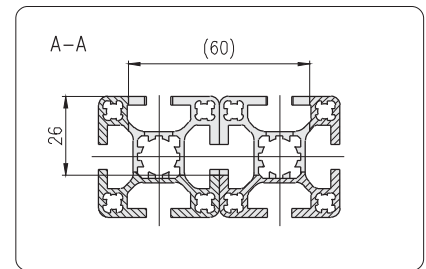


Application

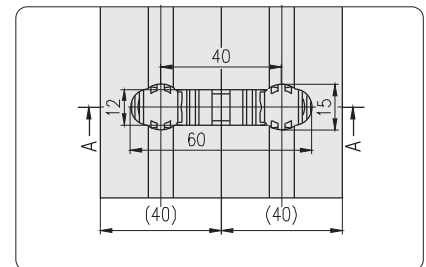
- Parallel connections with core hole distance of 40 mm
- Profile extensions



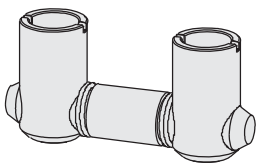
Insert front-sided



Profile machining



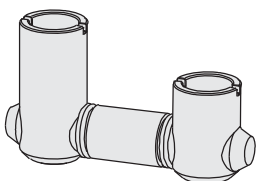
Profile machining



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

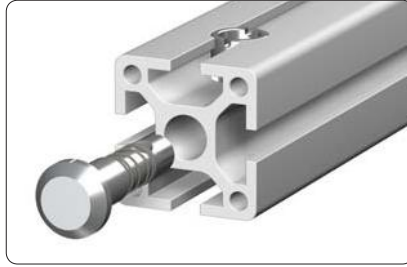


Description	Weight	Article-No.
Connector extension / parallel	76 g	1.21.50/30V040


Single parts

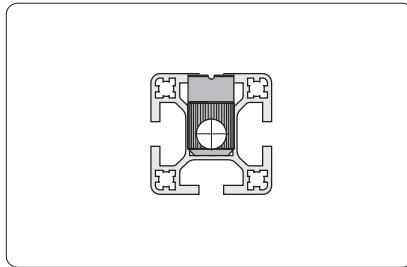
Description	Pcs	Weight	Article-No.
Anchor for connector extension / parallel, incl. springs	1	36 g	1.21.A1V040
Cross bushing B50, incl. setscrew	1	25 g	1.21.B50
Cross bushing B30, incl. setscrew	1	15 g	1.21.B30

**Universal connector
with knurled cross bushing**




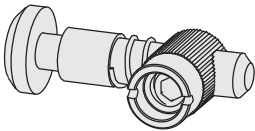
Application

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

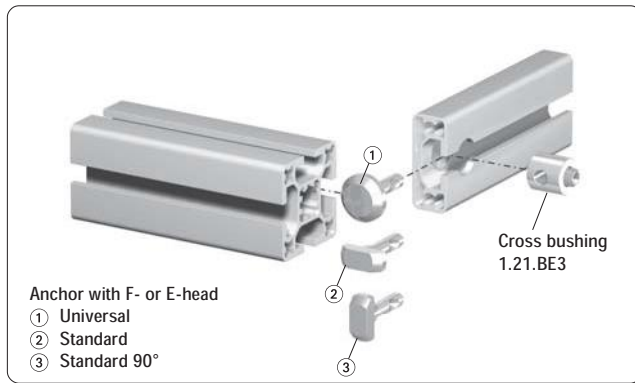


Description	Weight	Article-No.
Connector, universal with knurled cross bushing	60 g	1.21.40RE0

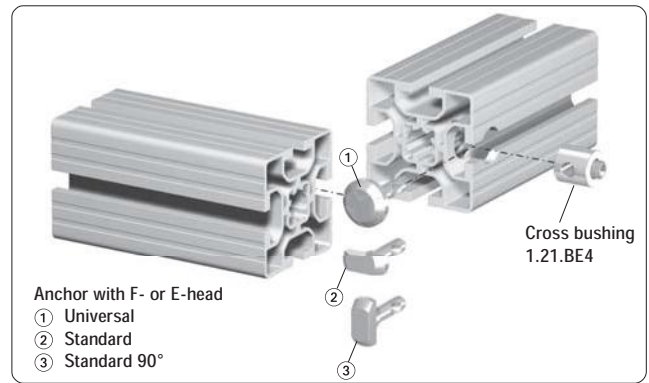
Single parts

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 to F/E-slot		Profile with E4-slot to F/E-slot			mounting in E3-slot		mounting in E4-slot	
					steel	VA	steel	VA
					standard	E	standard	E
Universal		Universal			1.21.SE3F0		1.21.SE4F0	
					1.21.SE3E0		1.21.SE4E0	
Standard		Standard			1.21.SE3F1		1.21.SE4F1	
					1.21.SE3E1		1.21.SE4E1	
90°		90°			1.21.SE3F2		1.21.SE4F2	
					1.21.SE3E2		1.21.SE4E2	

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

E = ground-connector, VA = stainless steel 1.4305



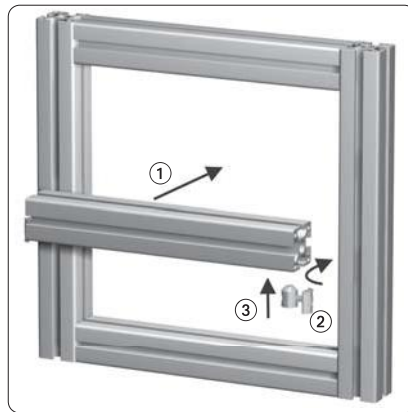
ST-Connector



Application

Connector for mounting into E-slot and for connection of profiles 30x150

Alternative connection possibility
 ↔ *Universal connector, 110*

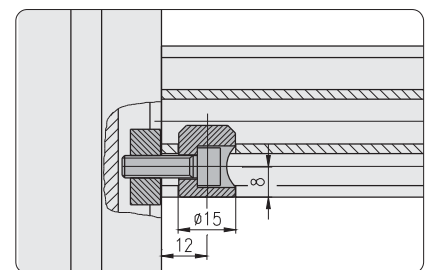
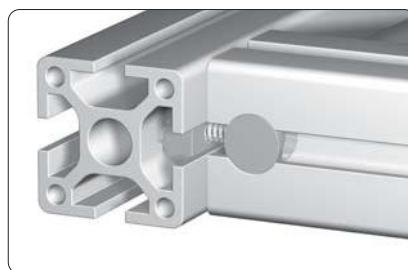
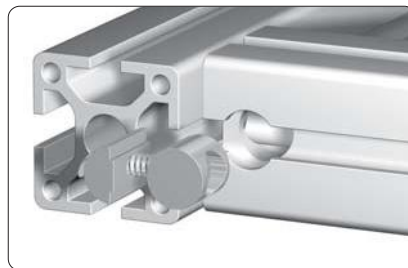


Application

ST-Connector for later insertion of profiles into closed frames

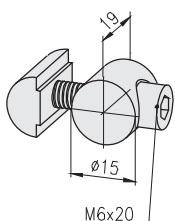
Assembly

- 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



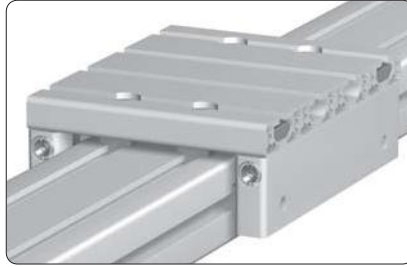
Connector complete

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

Single parts

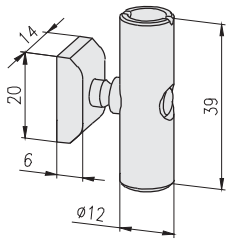
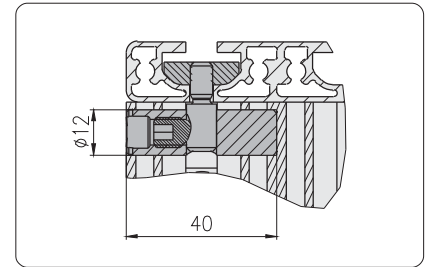
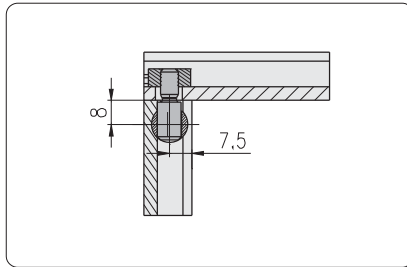
ST-Cross bushing	M6	16.7 g	1.21.STBM6
T-Nut for subsequent insertion into E-slots	M6	10.0 g	1.32.4EM6
Cap head screw DIN 912	M6x20	5.3 g	1.21.S0620

**ST-Connector
with anchor, screw-type**



Application

ST-Connection for PG 16, E3-slot
Eco-Slide \rightarrow 1.67



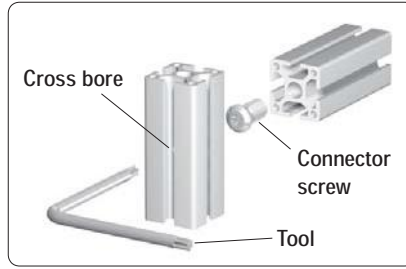
Connector complete

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

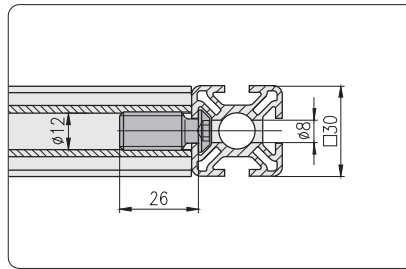
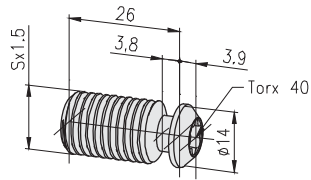
Simple connections with profiles using a 12 mm core hole

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

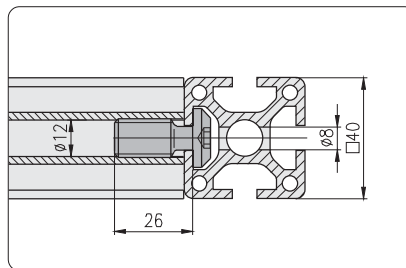
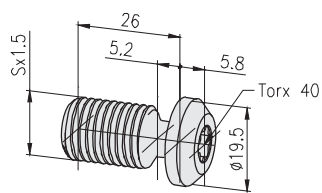
25.0 g

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

**Connector kits
Standard**



Application

- quick assembly
- connection without profile machining

Assembly



Screw the self tapping connector into the profile core hole. Locate the anti-rotation bracket into the corresponding holes in the profile to secure the joint.



fasten the connector screw



pre-mount the anchor and move the profile into position



fasten the setscrew

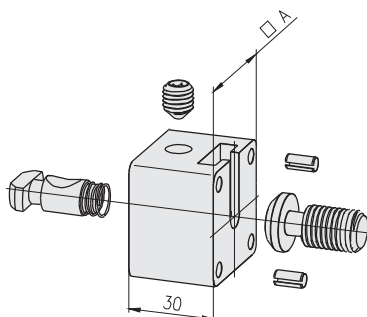
Technical data

Connecting block:

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

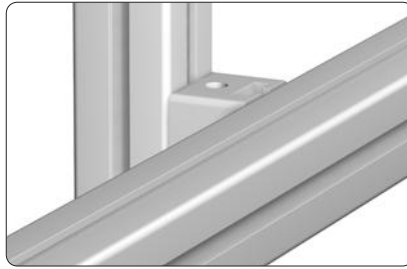
Connector screw, anchor, setscrew:

- material: steel
- surface: galvanised



Description	A	Weight	Article-No.
Connector kit 30x30, standard, F, M14	30	96 g	1.24.030030.F1EM14
Connector kit 40x40, standard, E, M14	40	162 g	1.24.040040.E1EM14

Connector kits
Parallel



Application

- quick assembly
- connection without profile machining

Assembly



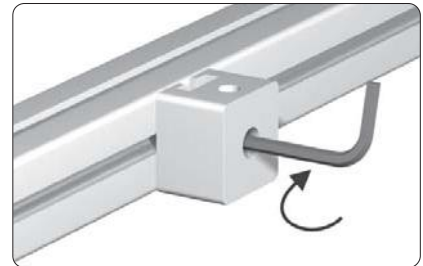
insert the T-Nut



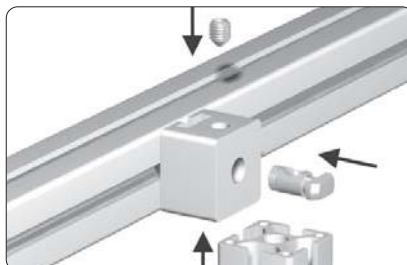
tighten the screw



attach the connecting block



fasten the screw



pre-mount the anchor and move the profile into position



fasten the setscrew

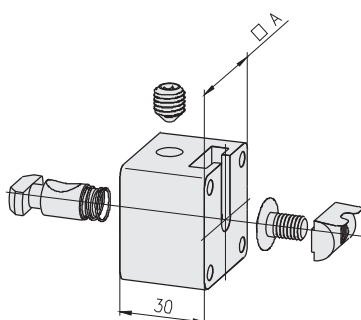
Technical data

Connecting block:

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

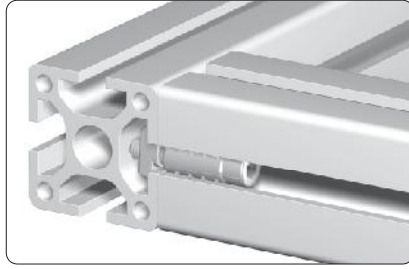
T-Nut, screw, anchor, setscrew:

- material: steel
- surface: galvanised



Description	A	Weight	Article-No.
Connector kit 30×30, parallel, F, M8	30	85 g	1.24.030030.F5EM08
Connector kit 40×40, parallel, E, M8	40	147 g	1.24.040040.E5EM08

Bayonet type connector



Application

Connection without profile machining.
Suitable for the connection of profiles with E-slots to profiles with E- or F-slots.



Application

Suitable for the subsequent mounting of profiles

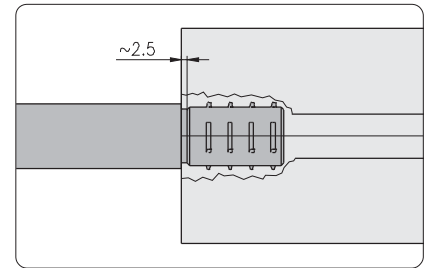
Mounting example

for bayonet type connector with T-slot nut

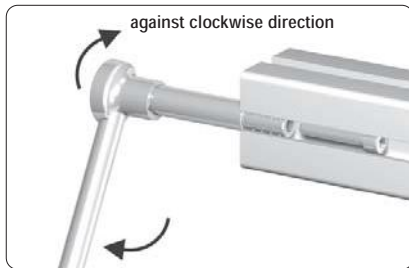
Pre-assembly of the notching case



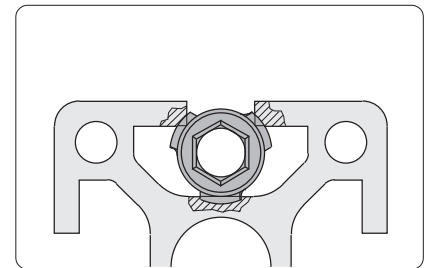
insert the cap head screw and the notching case into the slot



positioning with socket pin

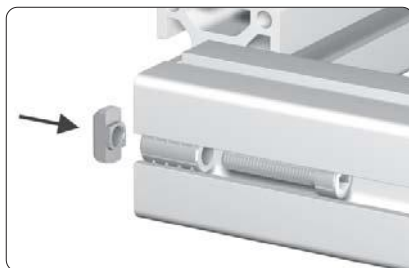


tighten the notching case (approx. 45° anti-clockwise turn)



end position of the notching case

Final assembly



pre-mounting of the T-slot nut



pre-mounting of the T-slot nut



join the profiles and tighten the T-slot nut



final tightening with socket spanner

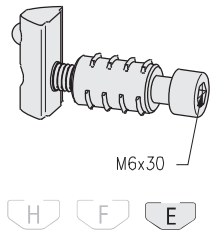


Bayonet type connector

Technical data

- Notching case, cap head screw,
T-Nut, socket pin:
material: steel
surface: galvanised
- T-slot nut:
material: GD-Zn

with T-Nut (spring ball)

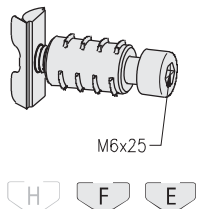


Description	Pcs.	Weight	Article-No.
Bayonet type connector E, with T-Nut (spring ball) E		24.4 g	1.25.E323E

Single parts

Notching case E for bayonet type connector	1	7.5 g	1.25.BE
Cap head screw DIN 912, M6×30	1	8.0 g	0.63.D00912.06030
T-Nut for subs. insertion, with spring ball E, M6	1	9.9 g	1.32.3EM6

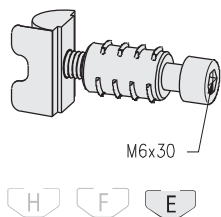
with T-Nut (spring)



Description	Pcs.	Weight	Article-No.
Bayonet type connector E, with T-Nut (spring) F		18.8 g	1.25.E324F

Single parts

Notching case E for bayonet type connector	1	7.5 g	1.25.BE
Cap head screw DIN 912, M6×25	1	7.0 g	0.63.D00912.06025
T-Nut for subs. insertion, with spring F, M6	1	4.3 g	1.32.4FM6

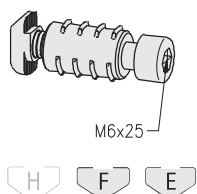


Description	Pcs.	Weight	Article-No.
Bayonet type connector E, with T-Nut (spring) E		25.5 g	1.25.E324E

Single parts

Notching case E for bayonet type connector	1	7.5 g	1.25.BE
Cap head screw DIN 912, M6×30	1	8.0 g	0.63.D00912.06030
T-Nut for subs. insertion, with spring E, M6	1	10.0 g	1.32.4EM6

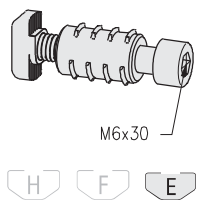
with T-slot nut



Description	Pcs.	Weight	Article-No.
Bayonet type connector E, with T-slot nut F		16.2 g	1.25.E3410F

Single parts

Notching case E for bayonet type connector	1	7.5 g	1.25.BE
Cap head screw DIN 912, M6×25	1	7.0 g	0.63.D00912.06025
T-slot nut F, M6	1	1.7 g	1.34.10FM6

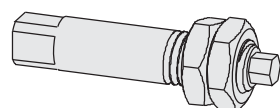


Description	Pcs.	Weight	Article-No.
Bayonet type connector E, with T-slot nut E		18.5 g	1.25.E3410E

Single parts

Notching case E for bayonet type connector	1	7.5 g	1.25.BE
Cap head screw DIN 912, M6×30	1	8.0 g	0.63.D00912.06030
T-slot nut E, M6	1	3.0 g	1.34.10EM6

Socket pin



Description	Weight	Article-No.
Socket pin for notching case E	58.0 g	1.25.WZ1

Cross connector



Application

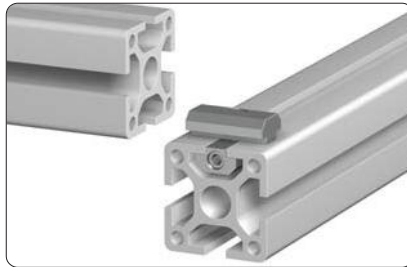
- quick assembly
- connection without profile machining

Technical data

Lower section, upper section, bolt, screw:

material: steel
surface: galvanised

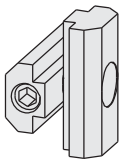
Assembly



push the lower section of the cross connector into the slot of the first profile



slide the slot of the second profile onto the upper section, position the profiles and tighten the connector



Description

Cross connector E3
Cross connector E4

Weight

53.5 g
55.0 g

Article-No.

1.25.41.E3
1.25.41.E4

**Parallel connector
for subsequent insertion**



Application

- quick assembly
- connection without profile machining

Assembly



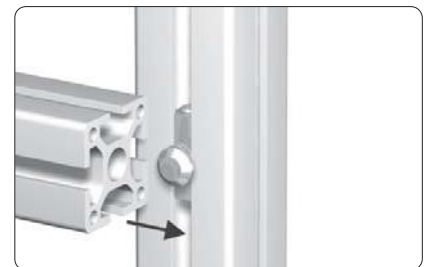
position the setscrew



insert the T-Nut



insert and pretension the anchor



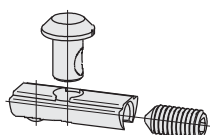
push on and position the profile



fasten the setscrew

Technical data

material: steel
surface: galvanised



Description	Weight	Article-No.
Parallel connector, for subsequent insertion, E3/H	21.7 g	1.25.E3H/5
Parallel connector, for subsequent insertion, E3/F	24.6 g	1.25.E3F/5
Parallel connector, for subsequent insertion, E3/E3	32.6 g	1.25.E3E3/5
Parallel connector, for subsequent insertion, E4/F	25.0 g	1.25.E4F/5
Parallel connector, for subsequent insertion, E4/E3	33.2 g	1.25.E4E3/5
Parallel connector, for subsequent insertion, E4/E4	33.5 g	1.25.E4E4/5

Clamping connector



Application

- quick assembly
- connection without profile machining

Technical data

material: steel
surface: galvanised

Assembly



Fastening element

Threaded insert M14/M8, 30, 1.35.1140830

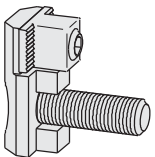
screw the threaded insert M14/M8, 30 into the core hole *Assembly reference 1.35*



screw the clamping connector into the threaded insert

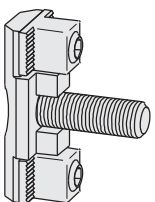


slide the connector into the slot of the second profile, position the profiles and tighten the connector



H **F** **E**

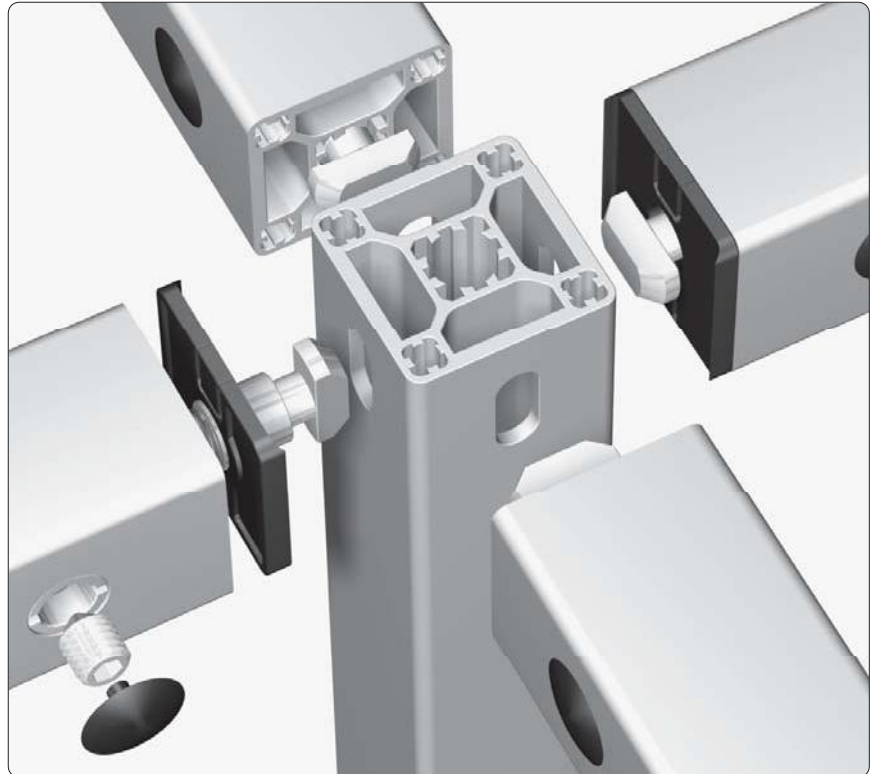
Description	Weight	Article-No.
Clamping connector 40E, single sided	34.4 g	1.25.61.40E
Clamping connector 45E, single sided	31.8 g	1.25.61.45E



H **F** **E**

Description	Weight	Article-No.
Clamping connector 40E, double sided	43.9 g	1.25.62.40E
Clamping connector 45E, double sided	42.3 g	1.25.62.45E

Connection of 0-slot profiles



Comments
Connector ↗ 1.2A

Connector - drill dimensions

without radius covers

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

with radius covers

↗ 1.43

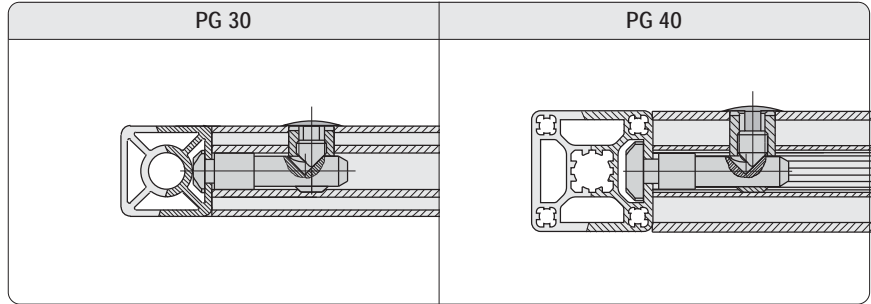
Cover plug

for connector cross bushings

↗ 1.42

	PG 30	PG 40

Connection with standard connectors



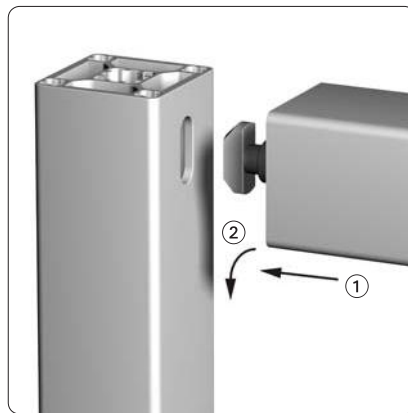
Single parts

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

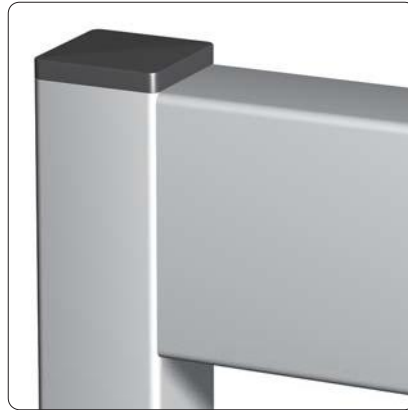
PG 30	PG 40	PG 45
<p>For fastening of profile 30×30</p>	<p>For fastening of profile 40×40</p>	<p>For fastening of profile 45×45</p>



Mounting variation

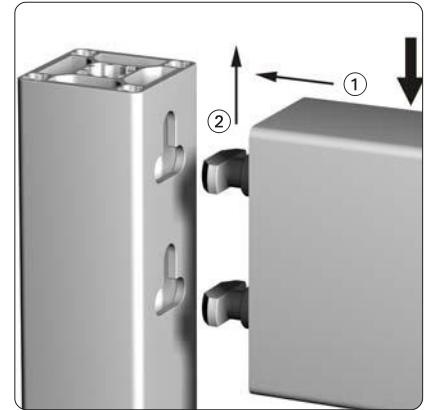
for profiles with 1 or more connectors, if the profile cannot be rotated

for high flexure load



Comments

Position of assembly: profiles flush on the top



Assembly

- ① insert connector
- ② push profile to the top

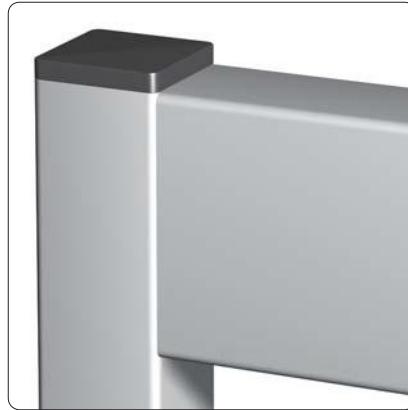
Fabrication measurements

PG 30	PG 40	PG 45
<p>For fastening of profile 30×30</p>	<p>For fastening of profile 40×40</p>	<p>For fastening of profile 45×45</p>
<p>For fastening of profile 30×60</p>	<p>For fastening of profile 40×80</p>	<p>For fastening of profile 45×90</p>
<p>For fastening of profile 60×60</p>	<p>For fastening of profile 80×80</p>	<p>For fastening of profile 90×90</p>

Mounting variation

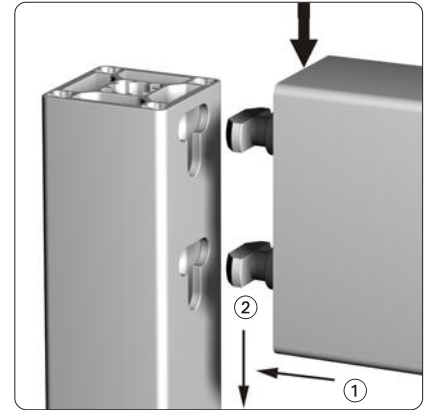
for profiles with 1 or more connectors, if the profile cannot be rotated

for high sliding load



Comments

Position of assembly: profiles flush on the top



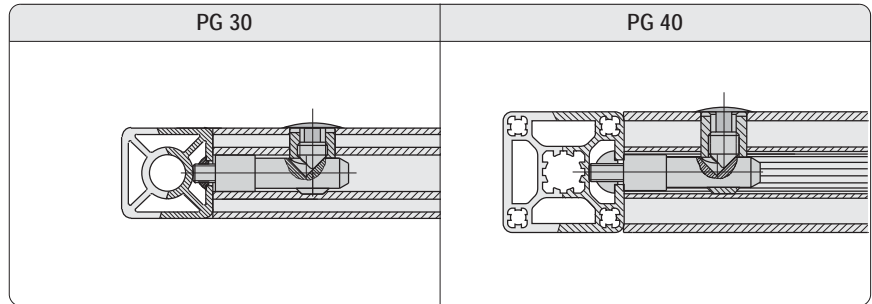
Assembly

- ① insert connector
- ② push profile to the bottom

Fabrication measurements

PG 30	PG 40	PG 45
<p>For fastening of profile 30x30</p>	<p>For fastening of profile 40x40</p>	<p>For fastening of profile 45x45</p>
<p>For fastening of profile 30x60</p>	<p>For fastening of profile 40x80</p>	<p>For fastening of profile 45x90</p>
<p>For fastening of profile 60x60</p>	<p>For fastening of profile 80x80</p>	<p>For fastening of profile 90x90</p>

Connection with screw-type connector



Single parts

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

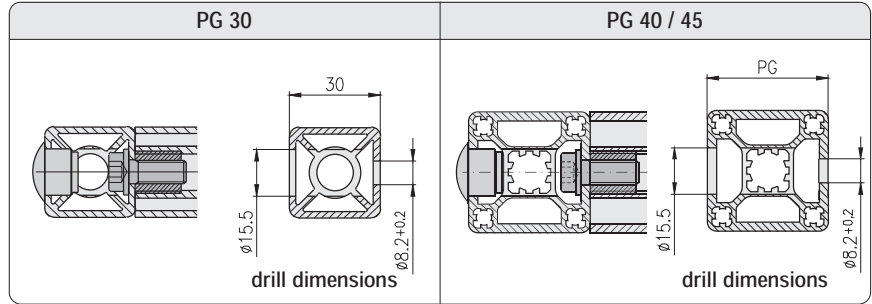
Single parts

- 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
<p>For fastening of profile 30×30</p>	<p>For fastening of profile 40×40</p>	<p>For fastening of profile 45×45</p>
<p>For fastening of profile 30×60</p>	<p>For fastening of profile 40×80</p>	<p>For fastening of profile 45×90</p>
<p>For fastening of profile 60×60</p>	<p>For fastening of profile 80×80</p>	<p>For fastening of profile 90×90</p>

Connection with DIN-Screw



Single parts

- Threaded insert M14/M8 1.35.1140815
- Cap head screw DIN 6912, M8×20 0.63.D06912.08020
- Washer, DIN 433 - 8.4 0.62.D00433.08,4
- Cover plug Ø15 1.42.6114.x

Fabrication measurements

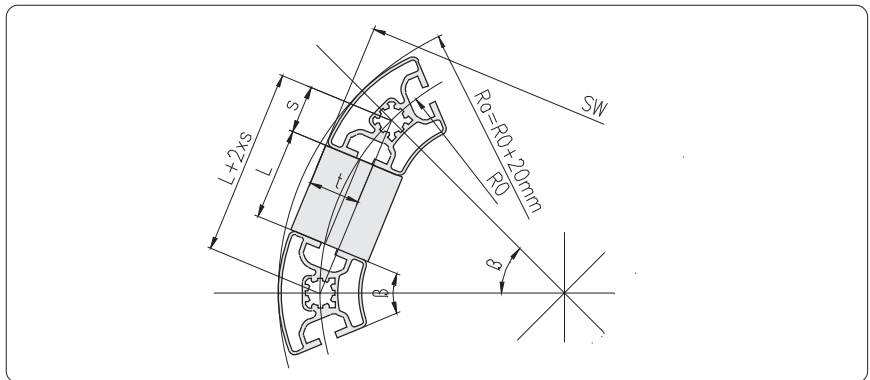
PG 30	PG 40	PG 45
<p>For fastening of profile 30×30</p>	<p>For fastening of profile 40×40</p>	<p>For fastening of profile 45×45</p>
<p>For fastening of profile 30×60</p>	<p>For fastening of profile 40×80</p>	<p>For fastening of profile 45×90</p>
<p>For fastening of profile 60×60</p>	<p>For fastening of profile 80×80</p>	<p>For fastening of profile 90×90</p>

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° (β = 30°)	Profile 40, round 45° (β = 45°)	Profile 40, round 60° (β = 60°)
		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 =	$\sqrt{((R_a - 20) \times 2)^2 - ((R_a - 20) \times 0.51764)^2} + 44.08$	$\sqrt{((R_a - 20) \times 2)^2 - ((R_a - 20) \times 0.76537)^2} + 49.14$	$\sqrt{((R_a - 20) \times 2)^2 - R_a^2} + 56.08$

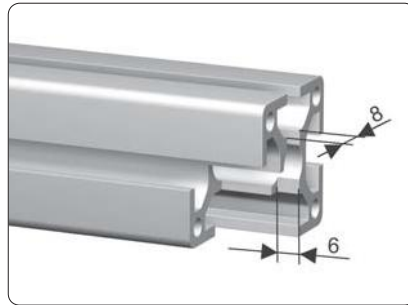
Subsequent mounting of profiles



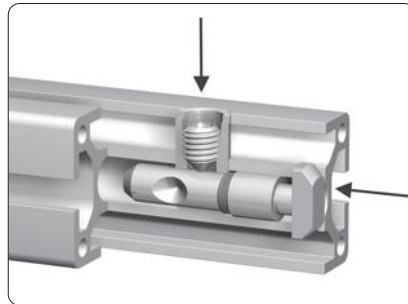
Step by step instruction for subsequent mounting of profiles with two standard connections for all profile groups

For the subsequent mounting of the profile:

1. Mill on both ends a slot size of 6x8 mm.



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

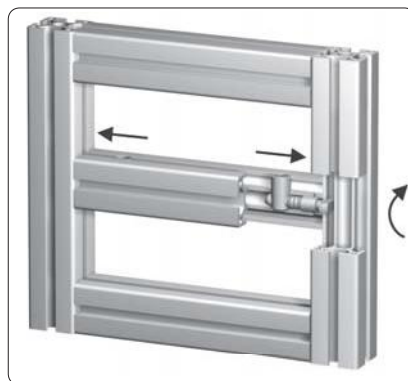


3. Mount profile.



4. Loosen setscrew.

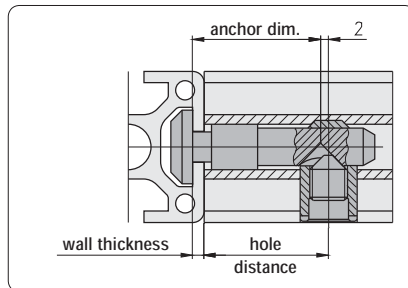
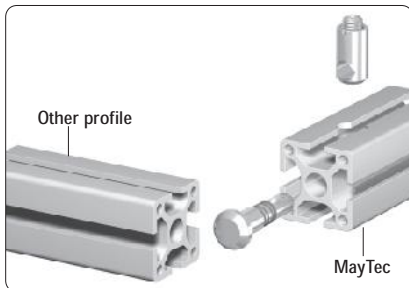
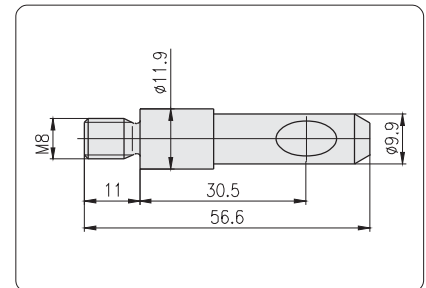
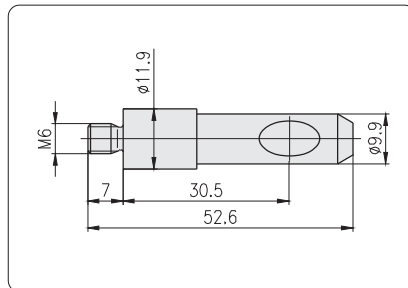
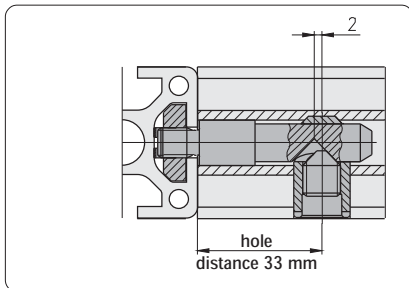
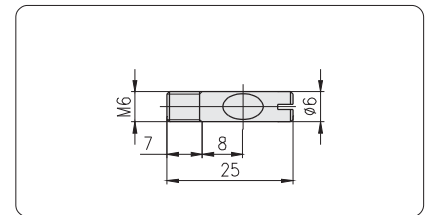
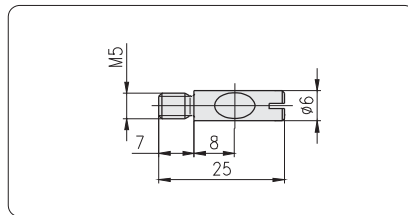
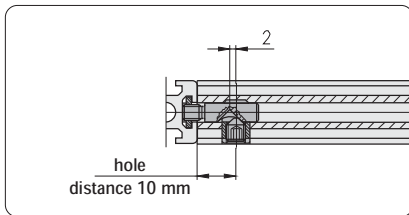
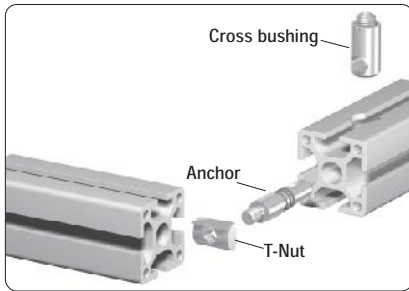
Due to the compressing spring the anchor is pushed into the slot.
Turn anchor by 90° with screw driver.
Fasten setscrew.



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:

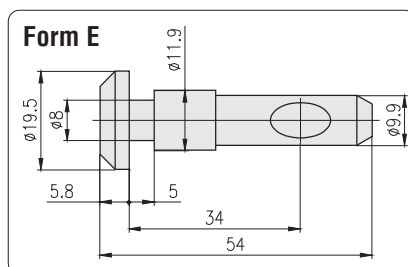
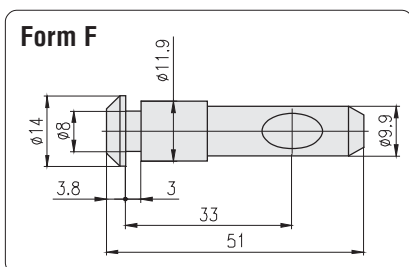
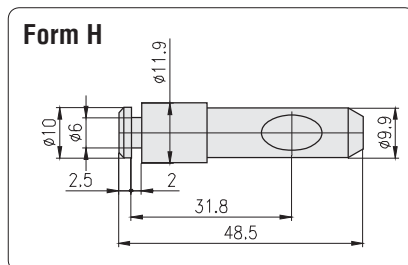
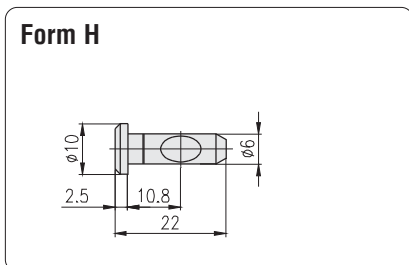
1. Anchor head-form and size

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.

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



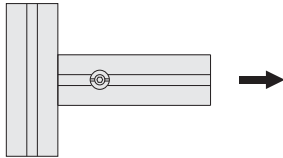
Torque tightening values for connector setscrew

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

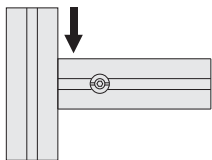


PG	Slot	max. Tensile strength				
		Connector			T-Nut	
		Standard	Universal	Square head		
20	H	-	1,500 N	-	M4	4,000 N
	F	5,000 N	6,000 N	8,000 N	M8	8,000 N
30	F	5,000 N	6,000 N	8,000 N	M8	8,000 N
40	E	10,000 N	12,000 N	12,000 N	M8	12,000 N
45	E	15,000 N	18,000 N	20,000 N	M8	20,000 N
50	E	15,000 N	18,000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

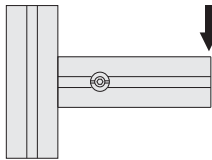
Comments

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

Slide load



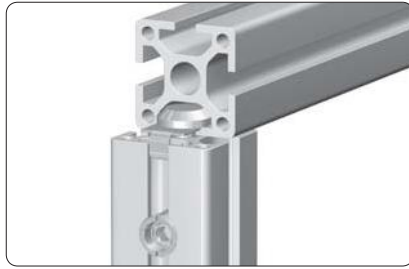
Flexure load



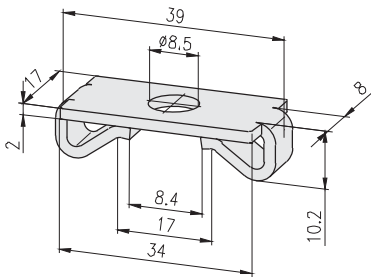
PG	Profile	Slot	Pcs	max. Slide strength		max. Flexure strength					
				Connector			Standard, Universal, Square head	Standard, Universal, Square head	Standard, Universal, Square head		
				Standard, Universal, Square head	E-connector (Standard, Universal)						
20	20×20	H	1	1,500 N	-	50 Nm	100 Nm	150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

The listed values are valid for all light and heavy profiles

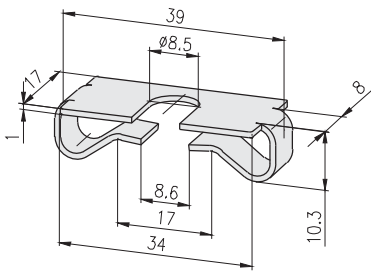
Retaining plates



Technical data
 material: steel
 surface: galvanised



Description	Weight	Article-No.
Retaining plate	13 g	1.29.11140



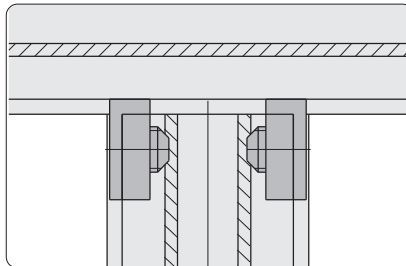
Description	Weight	Article-No.
Retaining plate for connector	11 g	1.29.11240

Anti-twist devices

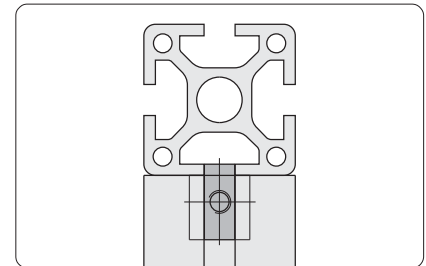


Application

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.

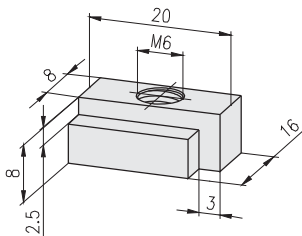
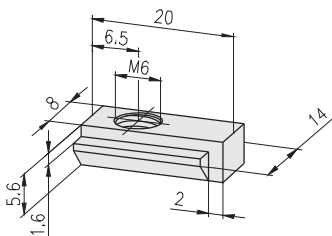


Technical data

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

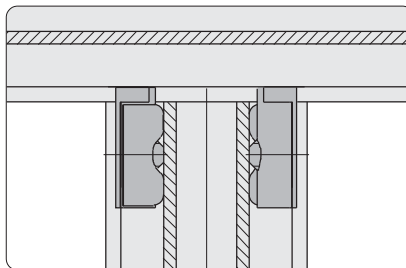
**Anti-twist devices
for subsequent insertion**



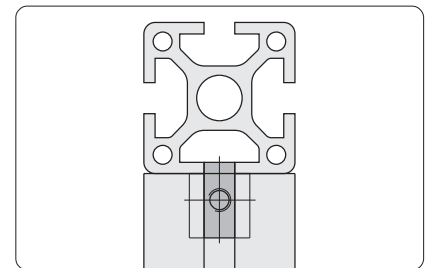
Application

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

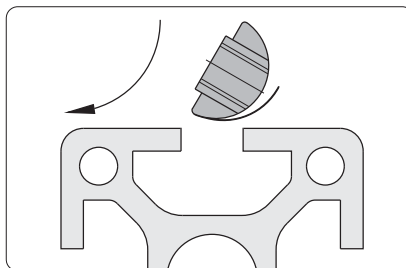


The nose of the anti-twist device fits into the basic profile.



Technical data

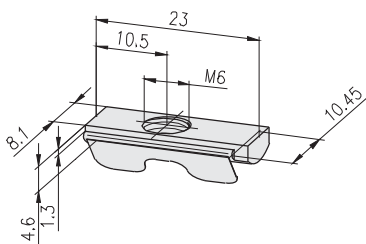
material: steel
 surface: galvanised
 max. moment of torque: $M_{A, max}$



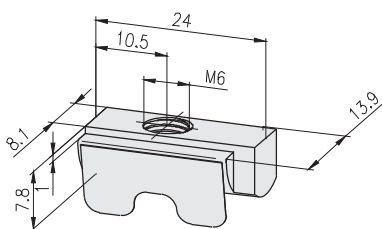
Insert front-sided and rotate

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

Application

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

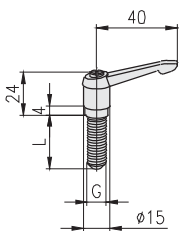


Clamping lever for connector

Technical data

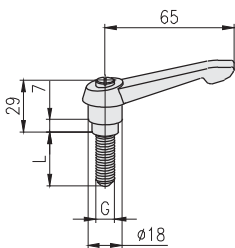
clamping handle: PA-glass-fiber reinf.
clamping lever: with ratchet lever handle
annular gear: die casted zinc
thread: steel

Clamping levers 40 for connector



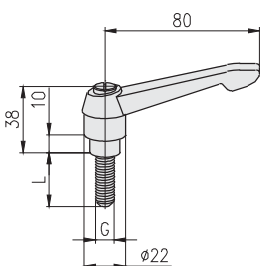
Description	G	L	Weight	Article-No.
Clamping lever 40 for connector	M6	20	17 g	1.29.500620
Clamping lever 40 for connector	M8	20	21 g	1.29.500820
Clamping lever 40 for connector	M10	20	24 g	1.29.501020
Clamping lever 40 for connector	M10	30	29 g	1.29.501030

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




















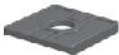






























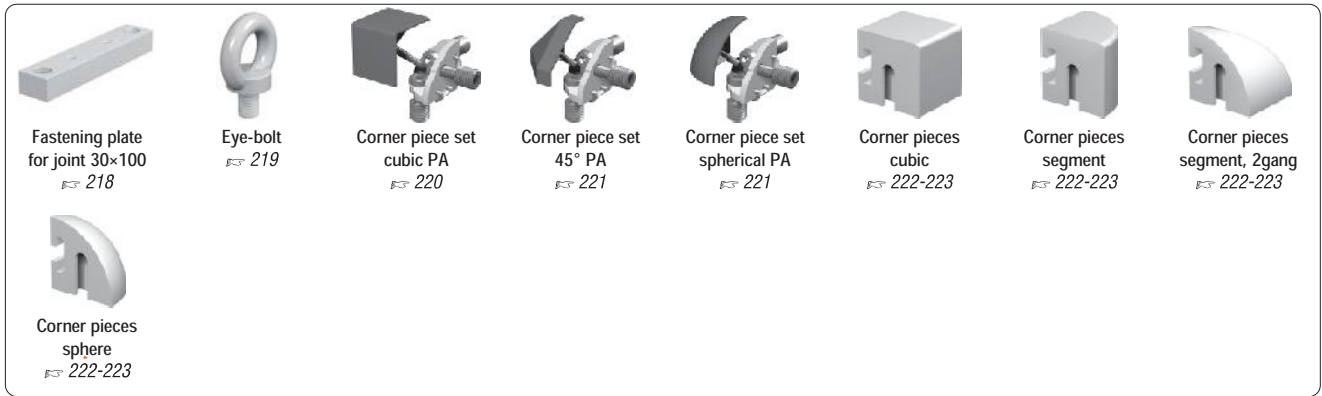
Description	G	L	Weight	Article-No.
Clamping lever 80 for connector	M8	20	64 g	1.29.800820
Clamping lever 80 for connector	M10	20	65 g	1.29.801020
Clamping lever 80 for connector	M10	30	70 g	1.29.801030

1.3 Fastening elements

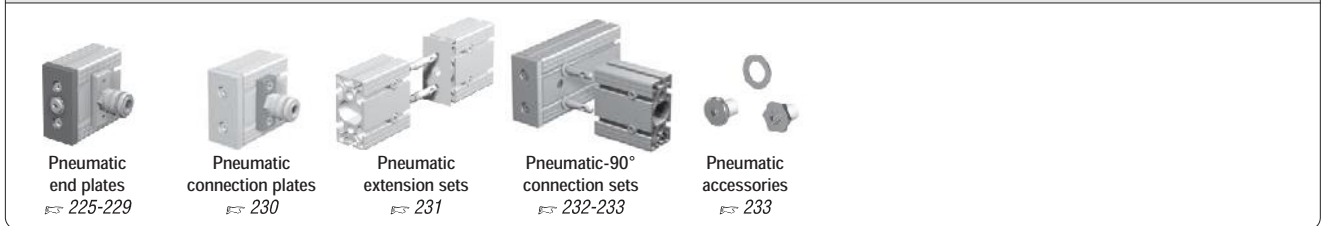
							
Threaded plates ↗ 142	Threaded plates for subs. insertion ↗ 143	Threaded plates heavy ↗ 144	T-Nuts ↗ 145	T-Nuts for subs. insertion ↗ 146-148	Spring-nuts front-sided insertion ↗ 149	T-slot nuts ↗ 150	Rhomboid T-slot nuts with self-locking ↗ 151
							
T-Bolts front-sided insertion ↗ 152	Threaded inserts ↗ 153-154	Press-fit threaded inserts ↗ 155-156					

1.4 Installation accessories

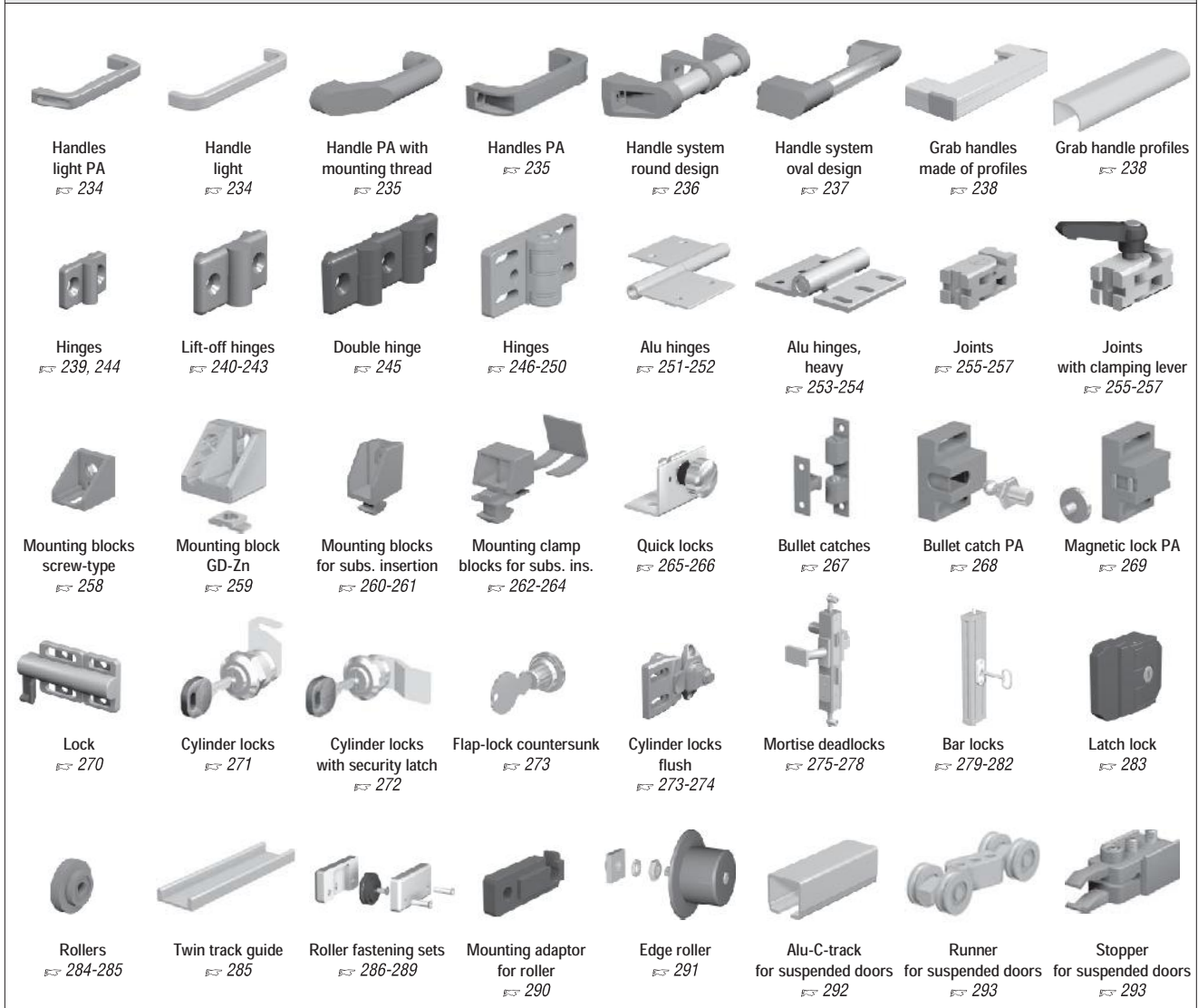
							
Cover profiles ↗ 157	Cover profiles ↗ 157	Reducing profiles ↗ 158	Combination profiles ↗ 159	Combination profiles ↗ 160	Combination profiles for sliding profiles ↗ 162	Guide profile for sliding profile ↗ 163	Framing profiles one piece ↗ 164
							
Wedge profiles ↗ 165	Sponge rubber round cords ↗ 166-167	Sealing profile ↗ 168	Framing profiles ↗ 169-171	Rubber cover-profiles ↗ 172	Cover caps for profiles ↗ 173-175	Cover cap Ø48 for hand rail profile ↗ 175	Cover plugs for cross bushings ↗ 176
							
Cover plugs domed for cross bushings ↗ 176	Cover caps for tubes ↗ 177	Cover caps for screw bores ↗ 177	Radius covers ↗ 178-179	Radius compensations ↗ 180	Floor levelling screws ↗ 181	Levelling foot PA 20 ↗ 181	Hand adjustable feet ↗ 182
							
Levelling feet ↗ 183	Adjustable tilt-feet ↗ 184-188	Angular adjusting feet ↗ 189	Base foot ↗ 190	Base feet ↗ 191-195	Base angle ↗ 196	Stacking foot ↗ 196	Fixed castors ↗ 197
							
Swivel castors ↗ 198	Swivel castors lockable ↗ 198	Locking castors ↗ 199-200	Angles ↗ 201	Angles PA ↗ 202	Angles GD-Zn ↗ 203-208	Angles GD-Al ↗ 209	Angles Alu ↗ 210
							
Swivel angles straight design ↗ 211	Swivel angles ↗ 211-212	Cross connection plates ↗ 212	Base plates ↗ 213-214	Floor mounting plate ↗ 215	Mounting plates ↗ 216	Floor plate ↗ 216	Connection plates ↗ 217

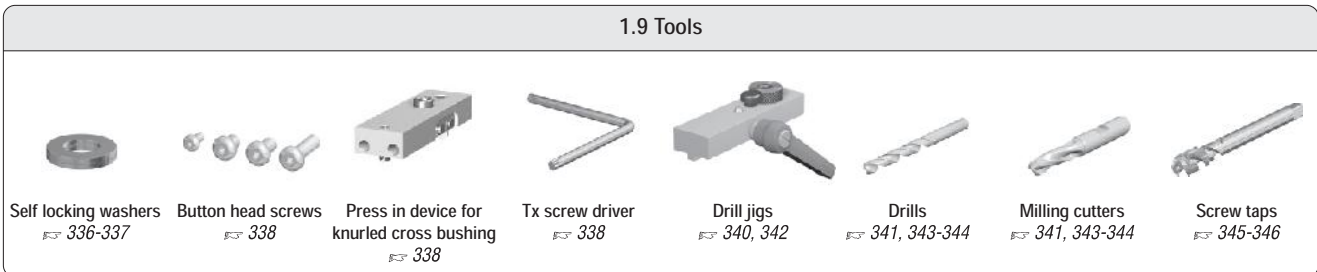
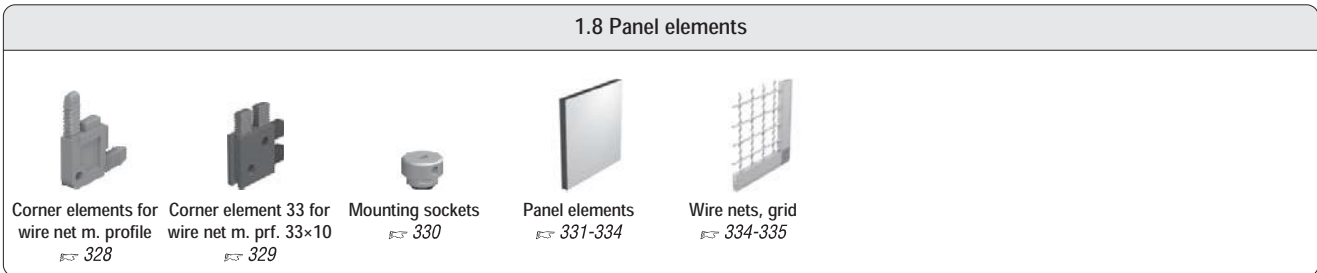
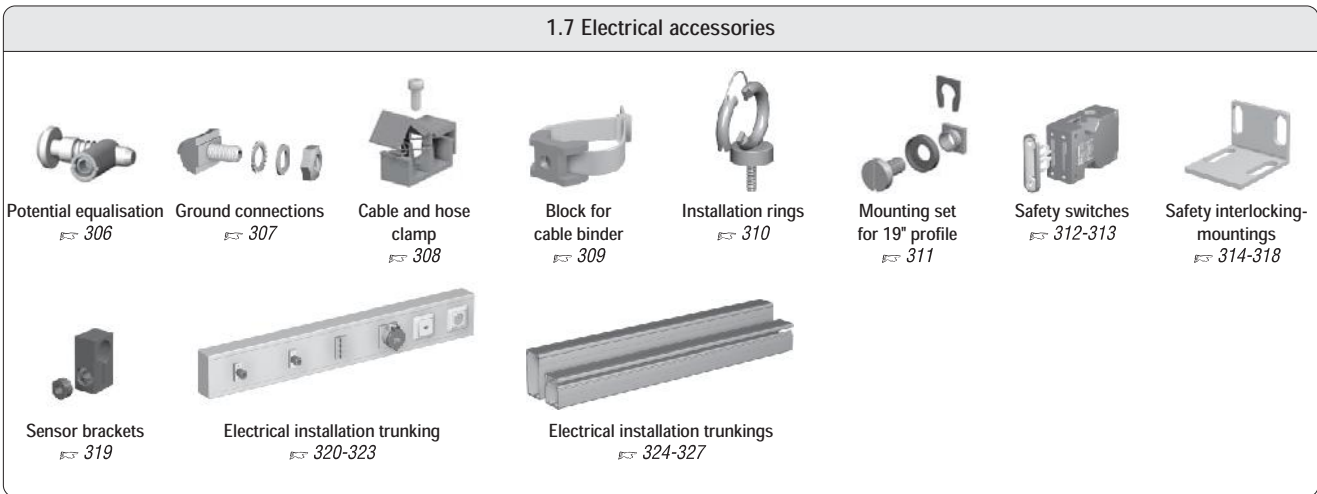
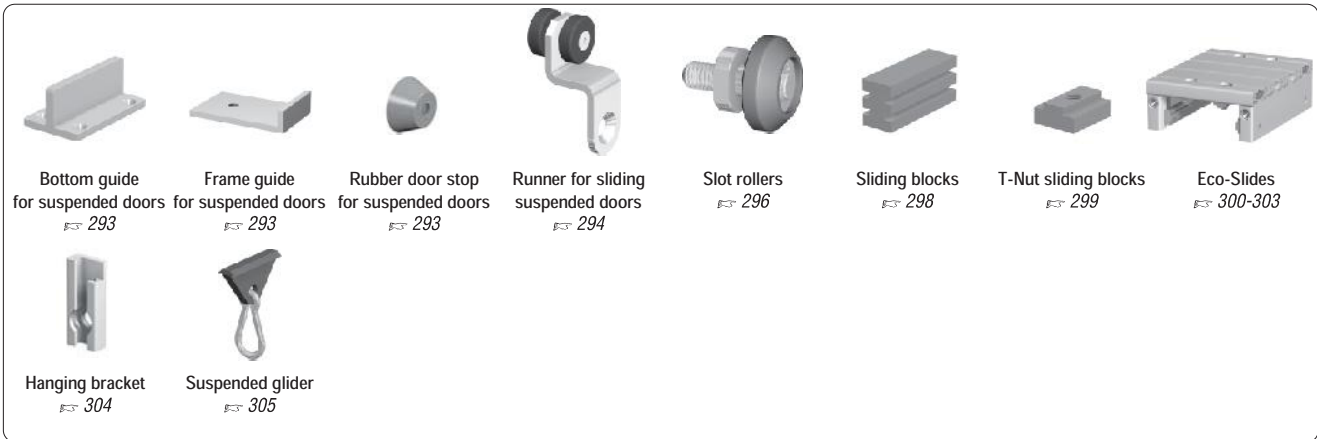


1.5 Pneumatic accessories

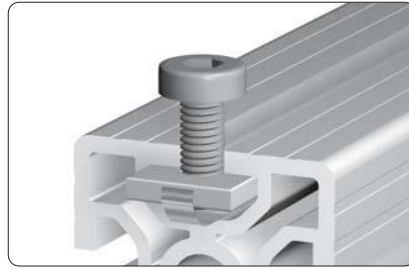


1.6 Additional accessories





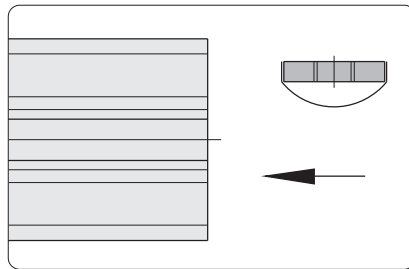
Threaded plates



Fixed into position with leaf spring

Application

Fastening element for screw-type connections

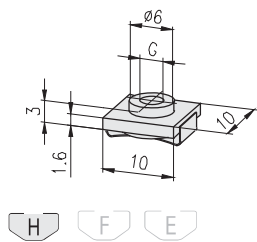


Assembly

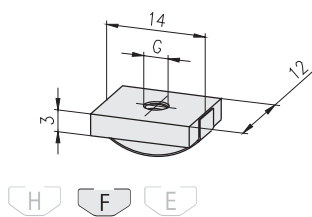
Insert from end

Technical data

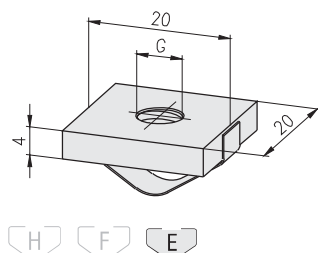
material: steel
 surface: galvanised
 max. moment of torque: $M_{A, \max}$



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

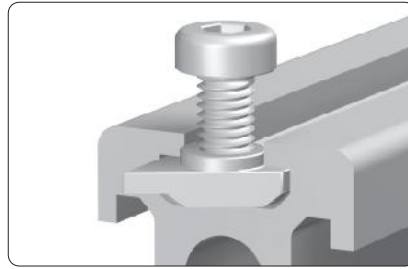


Description	G	$M_{A, \max}$	Weight	Article-No.
Threaded plate F	M3	1.3 Nm	3.9 g	1.31.FM3
Threaded plate F	M4	3.0 Nm	3.7 g	1.31.FM4
Threaded plate F	M5	5.0 Nm	3.6 g	1.31.FM5
Threaded plate F	M6	7.0 Nm	3.3 g	1.31.FM6

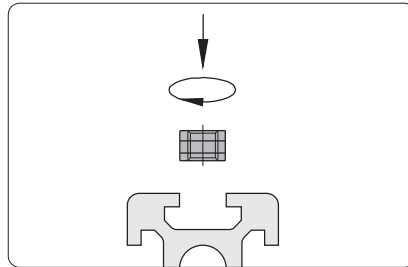


Description	G	$M_{A, \max}$	Weight	Article-No.
Threaded plate E	M3	1.3 Nm	12.0 g	1.31.EM3
Threaded plate E	M4	3.0 Nm	11.8 g	1.31.EM4
Threaded plate E	M5	5.0 Nm	11.6 g	1.31.EM5
Threaded plate E	M6	8.0 Nm	11.3 g	1.31.EM6
Threaded plate E	M8	15.0 Nm	11.0 g	1.31.EM8

**Threaded plates
for subsequent insertion**



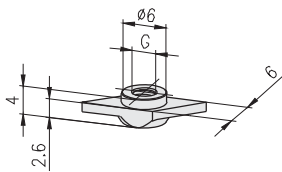
Application
Fastening element for screw-type connections



Assembly
Insert frontally and turn 60°

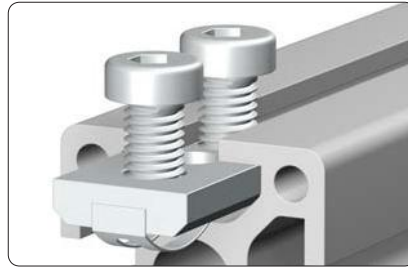
Technical data

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



Description	G	$M_{A, \max}$	Weight	Article-No.
Threaded plate for subsequent insertion H	M3	1.3 Nm	0.90 g	1.31.4HM3
Threaded plate for subsequent insertion H	M4	2.0 Nm	0.85 g	1.31.4HM4
Threaded plate for subsequent insertion H	M5	2.0 Nm	0.80 g	1.31.4HM5

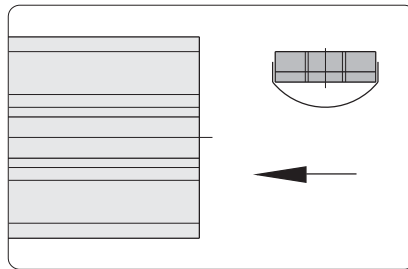
**Threaded plates
heavy**



Fixed into position with leaf spring

Application

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

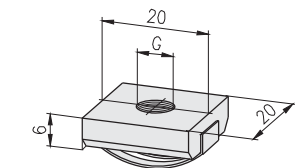


Assembly

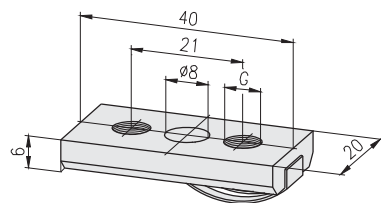
Insert from end

Technical data

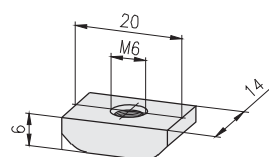
material: steel
 surface: galvanised
 max. moment of torque: $M_{A, max}$



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

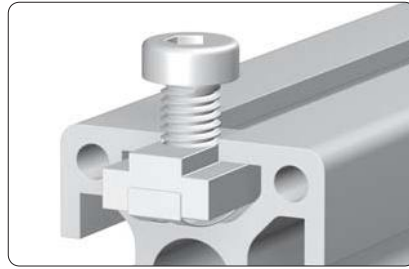


Application

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

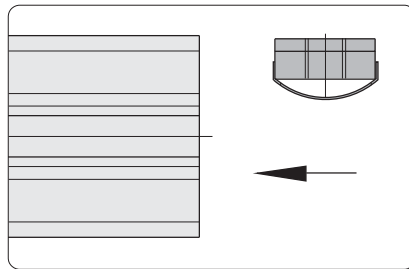
T-Nuts with spring



Fixing with leaf spring

Application

Fastening element for screw-type connections

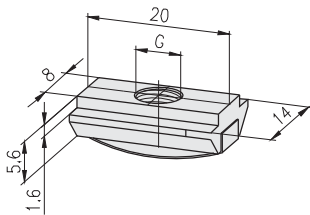


Assembly

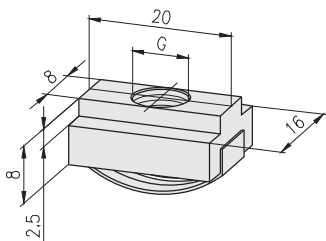
Insert from end

Technical data

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

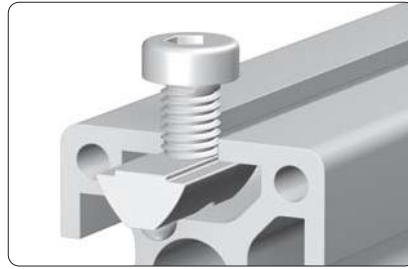


Description	G	$M_{A, \max}$	Weight	Article-No.
T-Nut with spring F M6	M6	10 Nm	7.0 g	1.32.FM6
T-Nut with spring F M8	M8	26 Nm	6.6 g	1.32.FM8



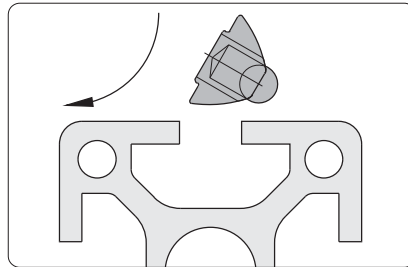
Description	G	$M_{A, \max}$	Weight	Article-No.
T-Nut with spring E M6	M6	10 Nm	15 g	1.32.EM6
T-Nut with spring E M8	M8	26 Nm	14 g	1.32.EM8

**T-Nuts
for subsequent insertion,
with spring ball**



Fixing with spring ball

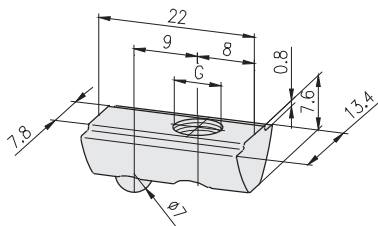
Application
Fastening element for screw-type connections



Assembly
Insert front-sided and rotate

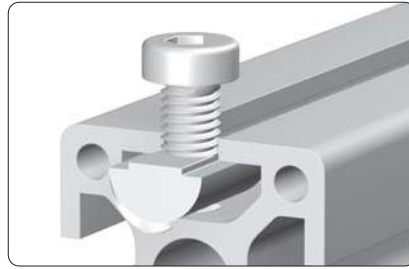
Technical data

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

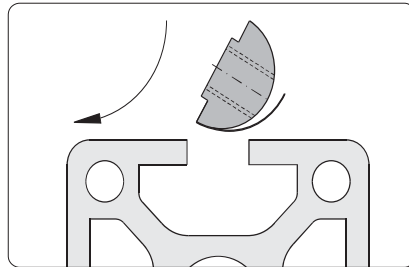
**T-Nuts
for subsequent insertion,
with spring**



Fixing with leaf spring

Application

Fastening element for screw-type connections



Insert front-sided and rotate

Technical data

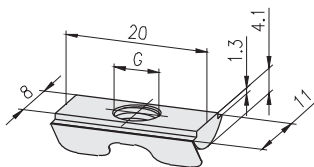
Design steel:

- material: steel
- surface: galvanised

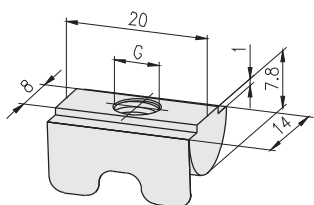
Design stainless:

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

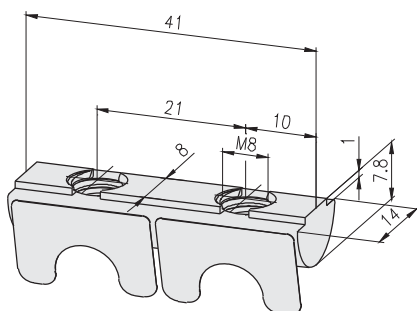
max. moment of torque: $M_{A, max}$



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



Fixing with leaf spring

Application

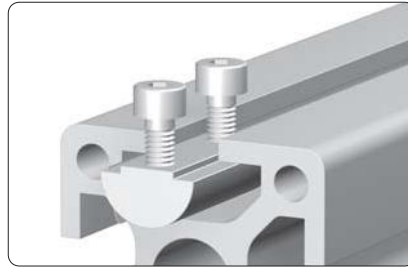
- Fastening element for screw-type connections
- hinges, heavy, type 20, 21, 31

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**



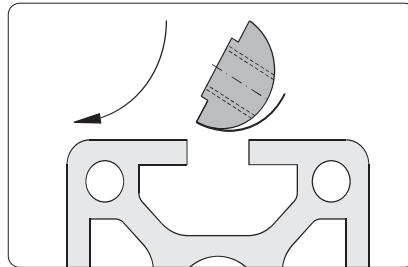
Fixing with leaf spring

Application

Fastening element for screw-type connections

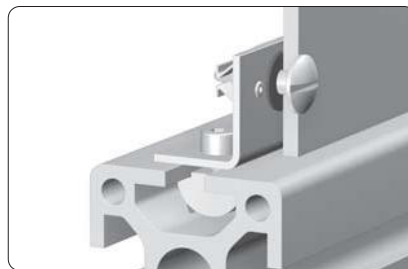
Technical data

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



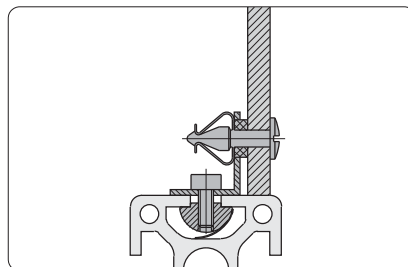
Assembly

Insert front-sided and rotate

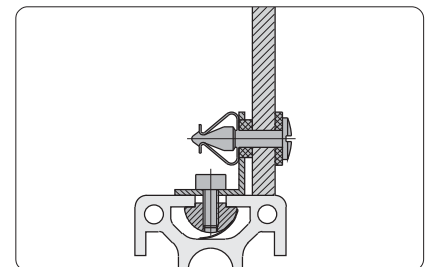


Application

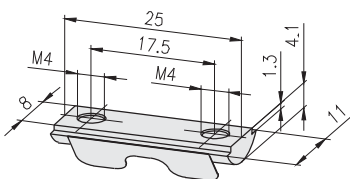
Fastening element for mounting angle, quick lock \rightarrow 265



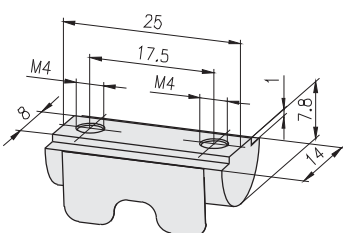
Fastening without washer



Fastening with washer

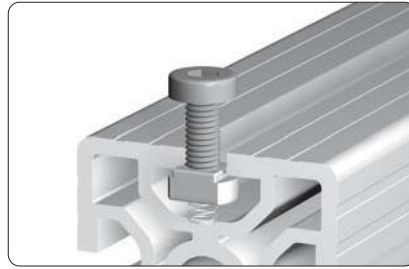


Description	G	$M_{A, \max}$	Weight	Article-No.
T-Nut for subs. ins., w. spring F	2×M4	3.0 Nm	7.0 g	1.32.4F2M4.25



Description	G	$M_{A, \max}$	Weight	Article-No.
T-Nut for subs. ins., w. spring E	2×M4	3.0 Nm	12.0 g	1.32.4E2M4.25

**Spring-nuts
front-sided insertion**

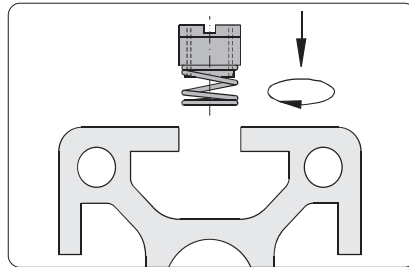


Fixing with compressing spring

Application

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

- enclosures
- electric switches

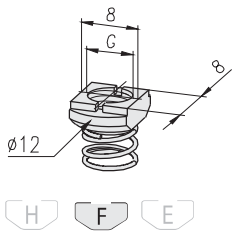


Assembly

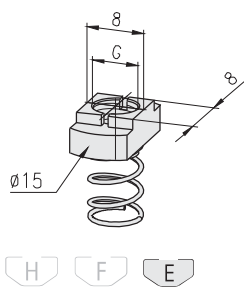
Insert front-sided and turn 90°

Technical data

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

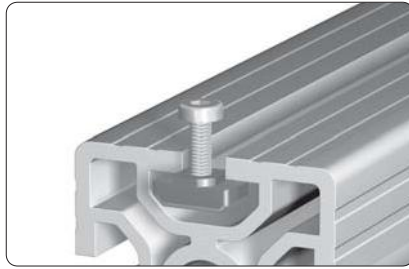


Description	G	$M_{A, \max}$	Weight	Article-No.
Spring-nut F	M3	1.3 Nm	1.6 g	1.33.FM3
Spring-nut F	M4	3.0 Nm	1.5 g	1.33.FM4
Spring-nut F	M5	5.0 Nm	1.3 g	1.33.FM5
Spring-nut F	M6	8.0 Nm	1.1 g	1.33.FM6



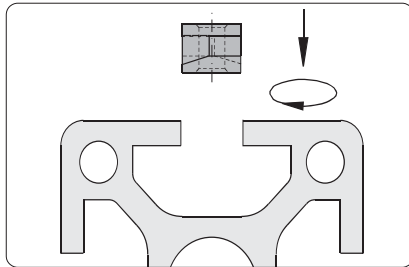
Description	G	$M_{A, \max}$	Weight	Article-No.
Spring-nut E	M3	1.3 Nm	3.9 g	1.33.EM3
Spring-nut E	M4	3.0 Nm	3.7 g	1.33.EM4
Spring-nut E	M5	5.0 Nm	3.4 g	1.33.EM5
Spring-nut E	M6	10.0 Nm	3.0 g	1.33.EM6

T-slot nuts



Application

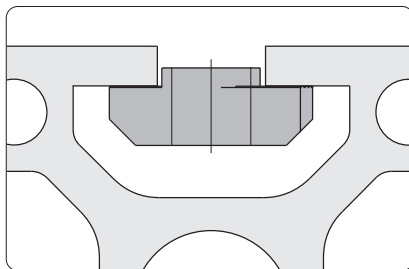
Fastening element for screw-type connections



Assembly

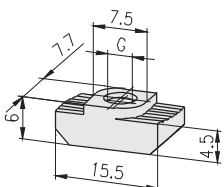
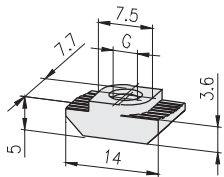
Mount the T-slot nut onto the screw and insert into the slot

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



Technical data

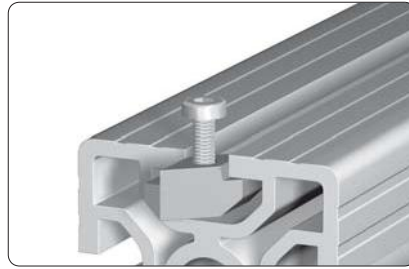
material: GD-Zn
 surface: galvanised
 max. moment of torque: $M_{A, max}$



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

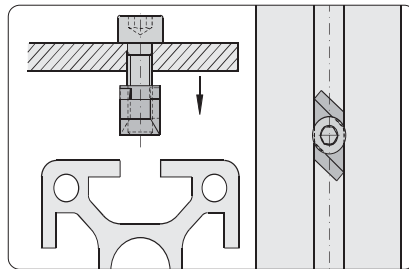
Description	G	$M_{A, max}$	Weight	Article-No.
T-slot nut E	M4	3.0 Nm	3.6 g	1.34.10EM4
T-slot nut E	M5	5.0 Nm	3.2 g	1.34.10EM5
T-slot nut E	M6	10.0 Nm	3.0 g	1.34.10EM6

Rhomboid T-slot nuts with self-locking



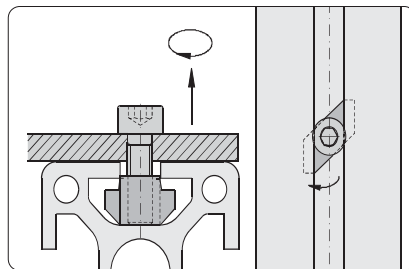
Application

For pre-assembly of threads in the profile slot

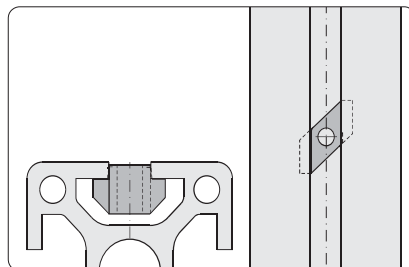


Assembly

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



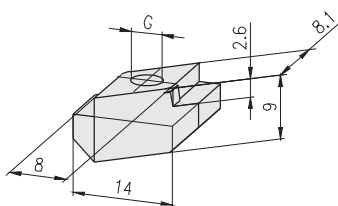
By tightening the screw, the rhomboid T-slot nut is turned 90° and jammed inside the slot with its conical flanks



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

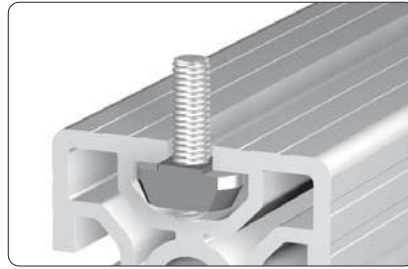
Technical data

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

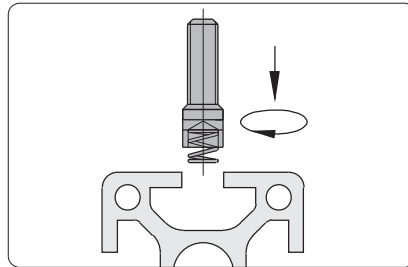
**T-Bolts
front-sided insertion**



Fixing with compressing spring

Application

Fastening element for screw-type connections

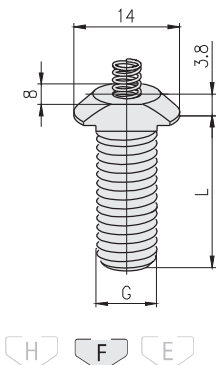


Assembly

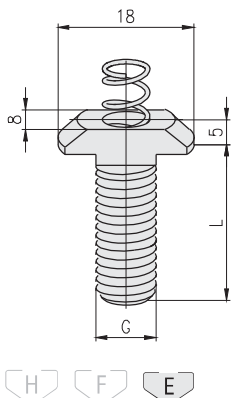
Insert front-sided and turn 90°

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	M8×30	18 Nm	14.0 g	1.34.EM83
T-Bolt E	M8×40	18 Nm	18.0 g	1.34.EM84

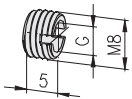
Threaded inserts



Application
For mounting on front end

Technical data
material: steel
surface: galvanised

Comments
for core hole Ø6



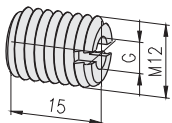
Description	G	Weight	Article-No.
Threaded insert	M8/M4	1.0 g	1.35.10804
Threaded insert	M8/M5	0.9 g	1.35.10805



Application
For mounting on front end

Technical data
material: steel
surface: galvanised

Comments
for outer chambers PG 50, heavy



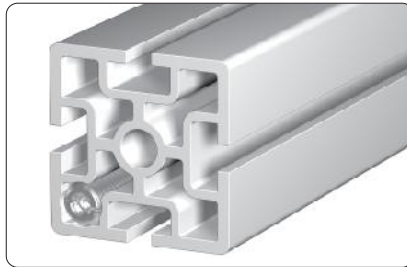
Description	G	Weight	Article-No.
Threaded insert	M12/M4	8.6 g	1.35.11204
Threaded insert	M12/M5	8.0 g	1.35.11205
Threaded insert	M12/M6	7.3 g	1.35.11206
Threaded insert	M12/M8	5.5 g	1.35.11208

Threaded inserts



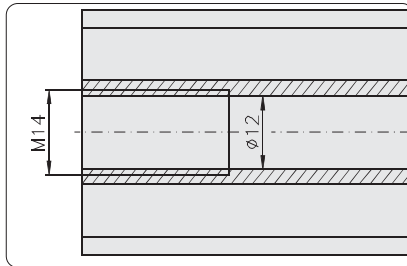
Application

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



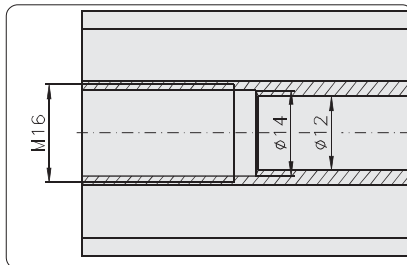
Application

For mounting on front end and fastening of profiles PG 45 heavy, PG 50 and PG 60



Assembly preparation for threaded insert M14/Mxx

- Tap M14 thread in core hole Ø12 mm

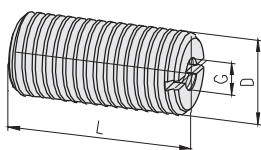


1) Assembly preparation for threaded insert M16/M12

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

Technical data

material: steel
surface: galvanised



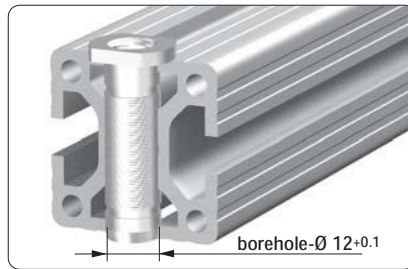
Description	D/G	L	Weight	Article-No.
Threaded insert	M14/M6	15	11 g	1.35.1140615
Threaded insert	M14/M6	30	22 g	1.35.1140630
Threaded insert	M14/M8	15	9 g	1.35.1140815
Threaded insert	M14/M8	30	18 g	1.35.1140830
Threaded insert	M14/M10	15	6 g	1.35.1141015
Threaded insert	M14/M10	30	12 g	1.35.1141030
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



Application

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

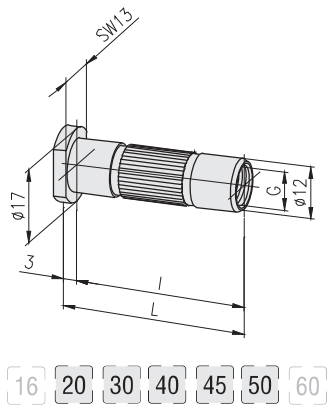


Application

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

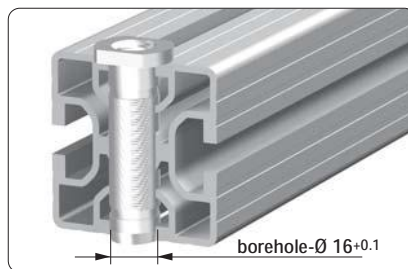
Technical data

material: steel
surface: galvanised



- 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

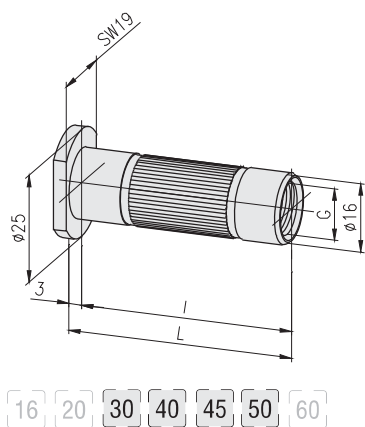


Application

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

Technical data

material: steel
surface: galvanised



- 16
- 20
- 30
- 40
- 45
- 50
- 60

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

**Press-fit threaded inserts
w/o collar**

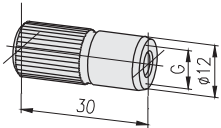


Application

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

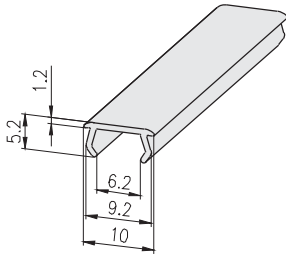
Description	G	Weight	Article-No.
Press-fit threaded insert, w/o collar	Ø12/M6	19 g	1.35.606300
Press-fit threaded insert, w/o collar	Ø12/M8	17 g	1.35.608300

Cover profiles



Application

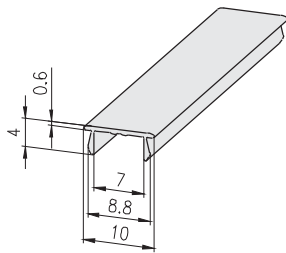
Cover profile with 1.2 mm jutout for the protection of the profile slots



Technical data

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

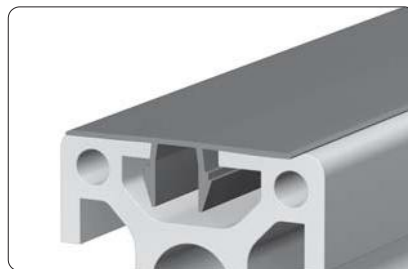
Description	Colour	similar to RAL	Weight	Article-No.
Cover profile 10, PVC, F/E,	grey	7035	85 g/bar	1.41.11.1
Cover profile 10, PVC, F/E,	black	9011	85 g/bar	1.41.11.2
Cover profile 10, PVC, F/E,	yellow	1023	85 g/bar	1.41.11.1023



Technical data

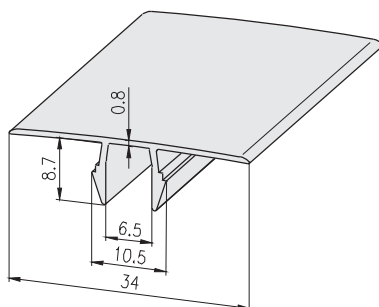
- bar length: 2.5 m
- material: aluminium
- surface: natural anodised

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

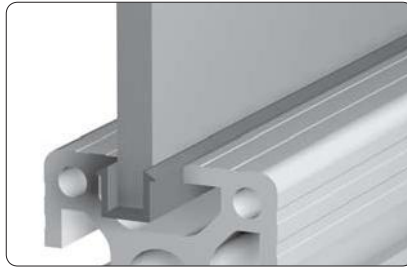


Technical data

- bar length: 2.5 m (grey, black, blue)
- 3.0 m (yellow, orange)
- material: PVC rigid
- oil and water resistant

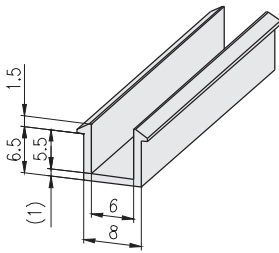
Description	Colour	similar to RAL	bar	Weight	Article-No.
Cover profile 34, PVC, E,	grey	7035	2.5 m	170 g/bar	1.41.15E34.1
Cover profile 34, PVC, E,	black	9011	2.5 m	170 g/bar	1.41.15E34.2
Cover profile 34, PVC, E,	blue	5017	2.5 m	170 g/bar	1.41.15E34.5017
Cover profile 34, PVC, E,	yellow	1003	3.0 m	204 g/bar	1.41.15E34.1003
Cover profile 34, PVC, E,	orange	2004	3.0 m	204 g/bar	1.41.15E34.2004

Reducing profiles PVC



Application

To reduce the slot size from 8 mm to 6 mm



Technical data

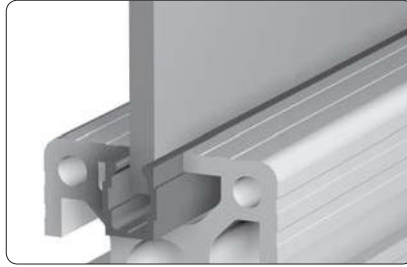
bar length: 2.5 m

material: PVC rigid

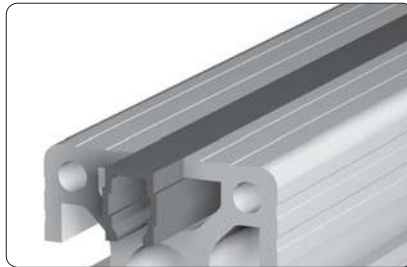
- oil and water resistant
- anti-electrostatic
- lead- and cadmium free

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

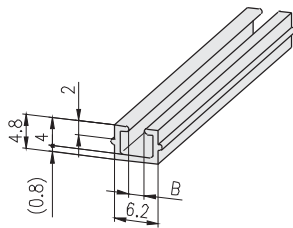
Application

Combination profiles for use as reduction or cover profiles

Technical data

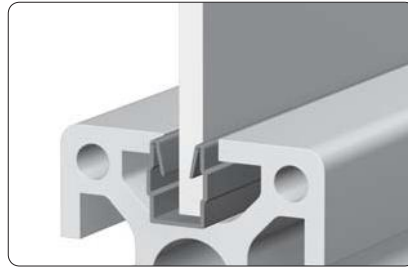
bar length: 2.5 m
 material: PVC rigid
 • oil and water resistant

Colours: grey
 black
 red
 blue
 green



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	2	red	3000	37.5 g/bar	1.41.H02.3000
Combination profile PVC, H	2	blue	5002	37.5 g/bar	1.41.H02.5002
Combination profile PVC, H	2	green	6024	37.5 g/bar	1.41.H02.6024
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

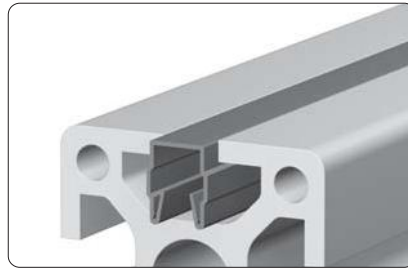
Combination profiles for use as reduction or cover profiles

Technical data

bar length: 2.5 m

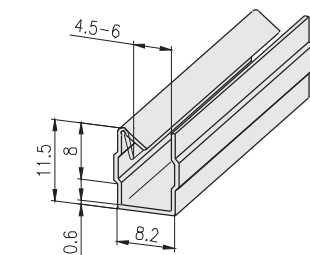
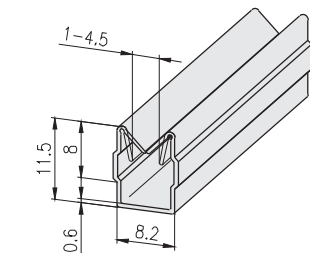
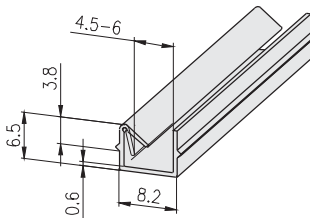
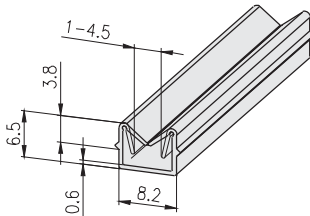
material: PP

- oil and water resistant



Use as slot-cover profile

- Colours:
- grey
 - black
 - orange
 - red
 - blue
 - green



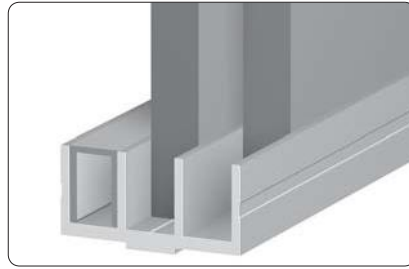
Description	D	Colour	similar to RAL	Weight	Article-No.
Combination profile F	1 - 4.5	grey	7035	31 g/bar	1.41.F14.1
Combination profile F	1 - 4.5	black	9011	31 g/bar	1.41.F14.2

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
Combination profile F	4.5 - 6	red	3000	28 g/bar	1.41.F46.3000
Combination profile F	4.5 - 6	blue	5002	28 g/bar	1.41.F46.5002
Combination profile F	4.5 - 6	green	6024	28 g/bar	1.41.F46.6024

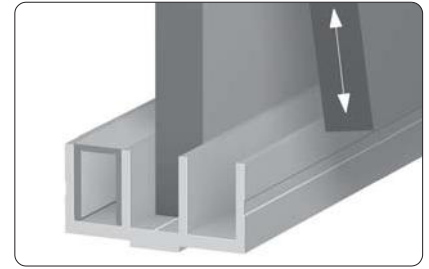
Description	D	Colour	similar to RAL	Weight	Article-No.
Combination profile E	1 - 4.5	grey	7035	47 g/bar	1.41.E314.1
Combination profile E	1 - 4.5	black	9011	47 g/bar	1.41.E314.2

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
Combination profile E	4.5 - 6	orange	2004	42 g/bar	1.41.E346.2004
Combination profile E	4.5 - 6	red	3000	42 g/bar	1.41.E346.3000
Combination profile E	4.5 - 6	blue	5002	42 g/bar	1.41.E346.5002
Combination profile E	4.5 - 6	green	6024	42 g/bar	1.41.E346.6024

Sliding doors construction types



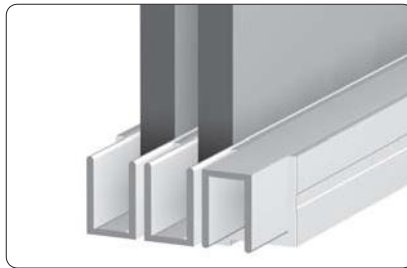
Fixed



Removable

Profile	Sliding profile 30 mm			Sliding profile 50 mm	
	Fixed	Removable		Fixed	Removable
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					
	$H = A - 6$ $H1 = A - 58$	$H = A - 18$ $H1 = A - 70$	$H = A - 30$ $H1 = A - 82$	$H = A - 17$ $H1 = A - 69$	$H = A - 19$ $H1 = A - 71$

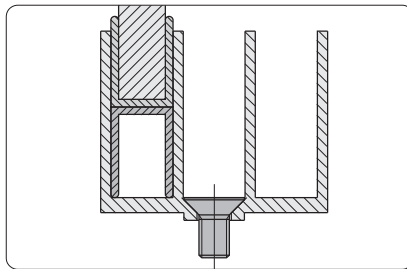
Combination profiles PVC



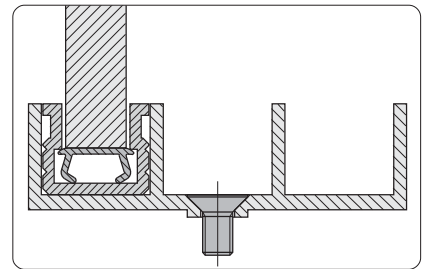
Application

Combination profiles for sliding profiles alternatively suitable as:

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



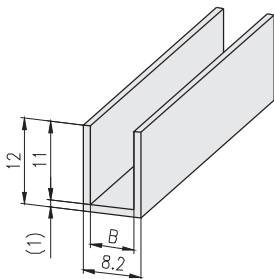
Inserted plate for sliding profile 30×26: combination profile 1.41.330



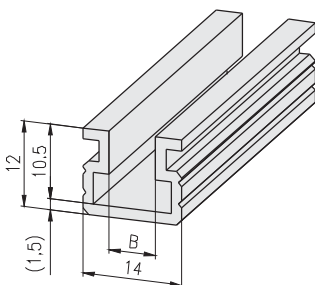
Inserted plate for sliding profile 50×14: for sliding profile 1.41.11.1, 1.41.11.2

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



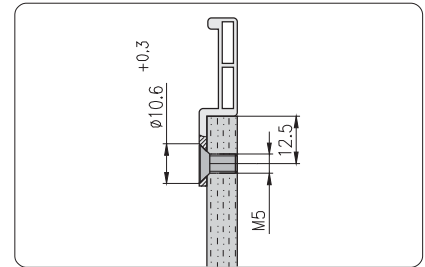
Description	B	Weight	Article-No.
Combination profile PVC for 50×14	6.5	222.5 g/bar	1.41.350
Combination profile PVC for 50×14	9.0	205.0 g/bar	1.41.351

Guide profile PVC

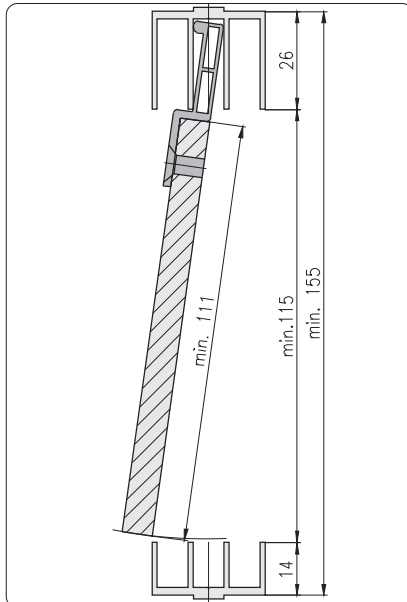


Application

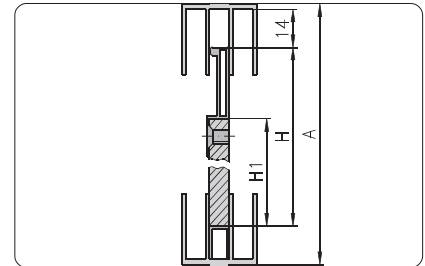
- The guide profile is necessary
- For demountable sliding doors
 - For the use of panel elements of each plate thickness from 1 mm to 14 mm



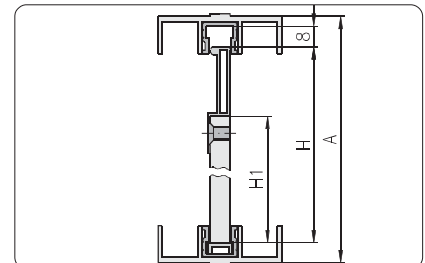
Drill dimensions



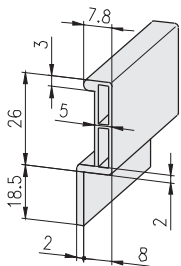
Minimum height for lifting of the panel elements



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

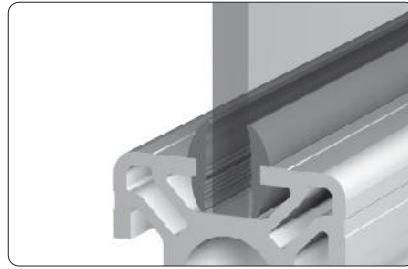
Weight

375 g/bar

Article-No.

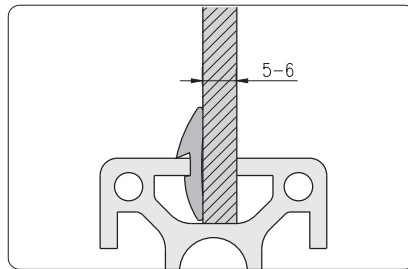
1.41.360

Framing profiles one piece

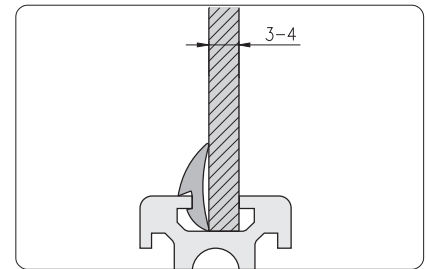


Application

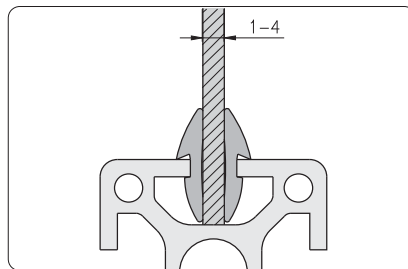
The one piece framing profile for mounting panels of different thickness
The elastic lips provide a good seal



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



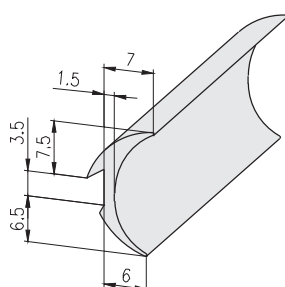
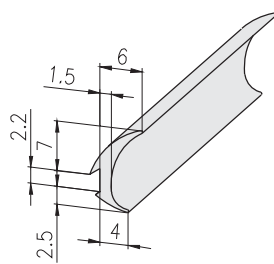
Two sided application for profiles with F- and E-slots and panels 1 - 4 mm thick

Technical data

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

Colours

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



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

/... = length in mm

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

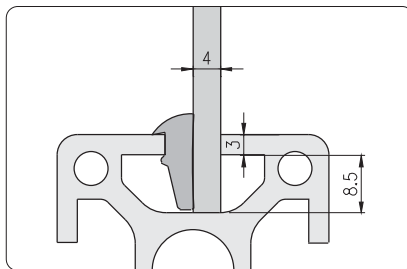
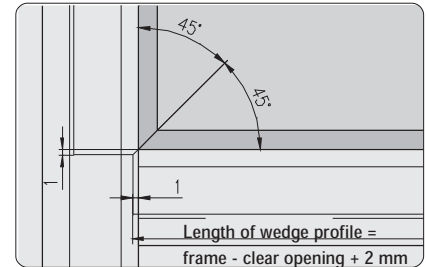
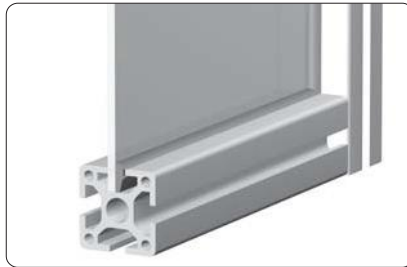
/... = length in mm

Wedge profiles



Application

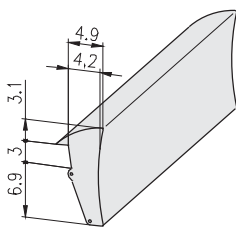
Wedge profiles for sealing or fixing of panel elements with a thickness of 4 mm



E3-slot

Technical data

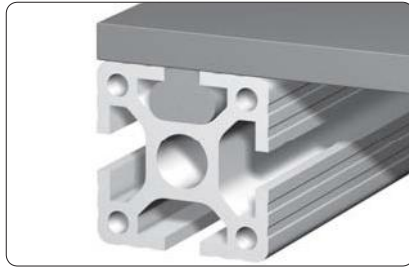
- length of ring: 100 m
- material: Santoprene
- free of silicon
- compatible with acrylic glass



Description	Colour		Weight	Article-No.
Wedge profile E3	grey	ring	5.0 kg/ring	1.41.51E3.1.99
Wedge profile E3	grey	cut to length	50 g/m	1.41.51E3.1-A00A00/...

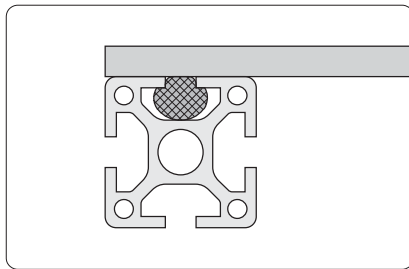
/... = length in mm

Sponge rubber round cords

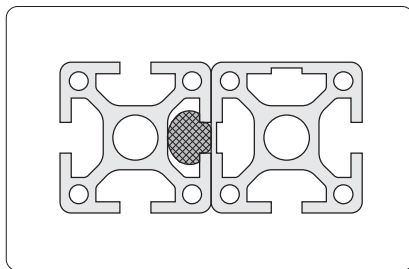


Application

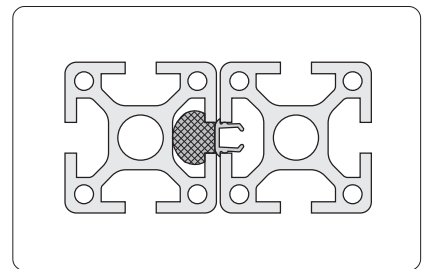
Sponge rubber round cords for sealing



Profile with panel element



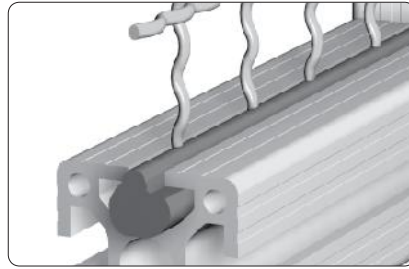
1 profile with slot
1 profile closed



2 profiles with slots
1 profile with slot-cover profile

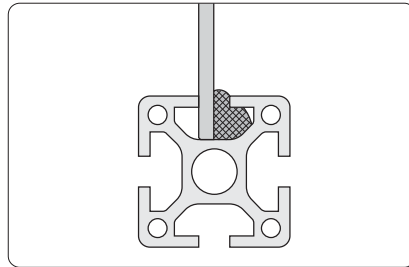
Sponge rubber round cord diameter-determination	
Profile slot	Sponge rubber diameter
H-slot	8 mm
F-slot	12 mm
E-slot	18 mm

Sponge rubber round cords

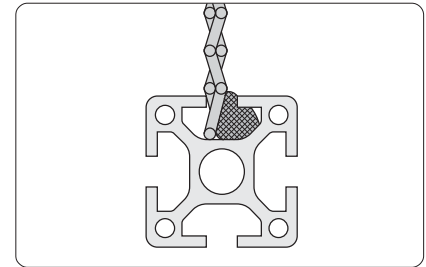


Application

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



Enclosures with panel materials

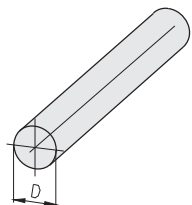


Enclosures with wire screens

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

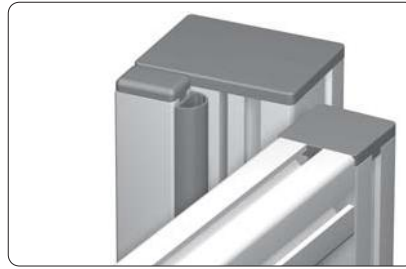
length of ring: 100 m
 material: EPDM
 colour: grey



Description	D	Weight	Article-No.
Sponge rubber round cords	Ø6 ring	1.1 kg/ring	1.41.606.99
Sponge rubber round cords	Ø6 cut to length	11 g/m	1.41.606-A00A00/...
Sponge rubber round cords	Ø8 ring	1.9 kg/ring	1.41.608.99
Sponge rubber round cords	Ø8 cut to length	19 g/m	1.41.608-A00A00/...
Sponge rubber round cords	Ø10 ring	3.2 kg/ring	1.41.610.99
Sponge rubber round cords	Ø10 cut to length	32 g/m	1.41.610-A00A00/...
Sponge rubber round cords	Ø12 ring	4.6 kg/ring	1.41.612.99
Sponge rubber round cords	Ø12 cut to length	46 g/m	1.41.612-A00A00/...
Sponge rubber round cords	Ø18 ring	10.0 kg/ring	1.41.618.99
Sponge rubber round cords	Ø18 cut to length	100 g/m	1.41.618-A00A00/...

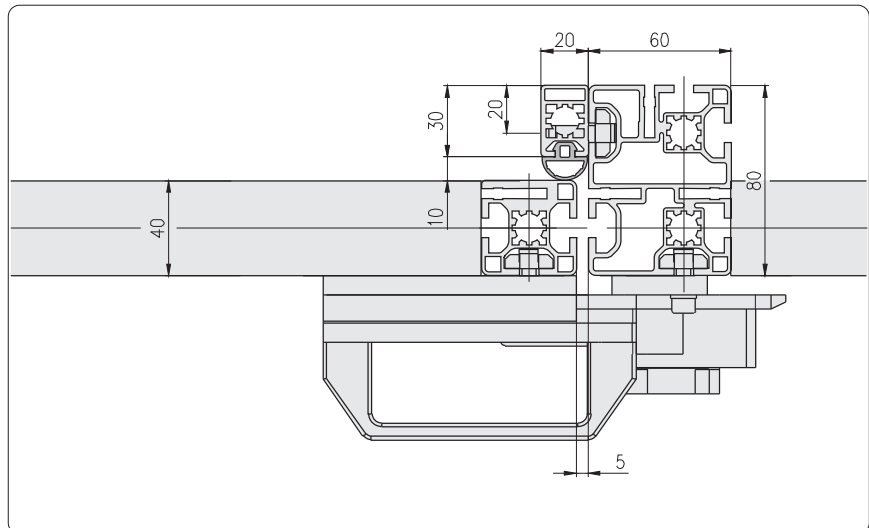
/... = length in mm

Sealing profile



Application

For sealing of doors and windows and for door stops

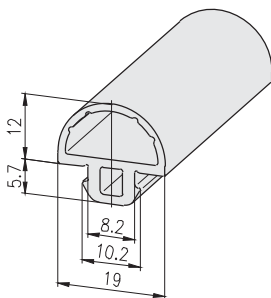


Technical data

length of ring: 40 m

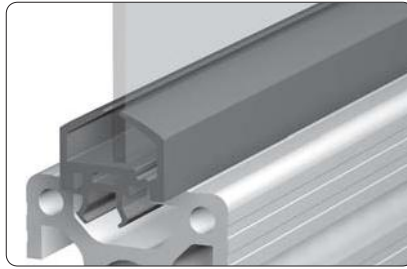
material: EPDM, 60° ± 5° Shore A

- free of silicon
- compatible with acrylic glass



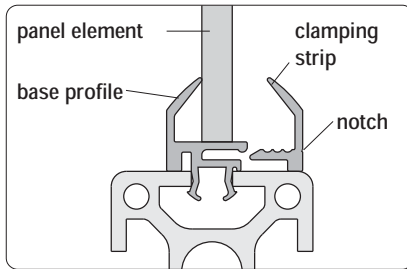
Description	Colour		Weight	Article-No.
Sealing profile F	black	ring	5.12 kg/ring	1.41.6510F.2.40
Sealing profile F	black	cut to length	128 g/m	1.41.6510F.2-A00A00/... /... = length in mm

Framing profiles



Application

The framing profile allows the installation of panels in closed frames

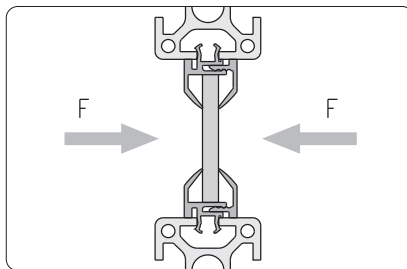


Assembly

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 notch 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

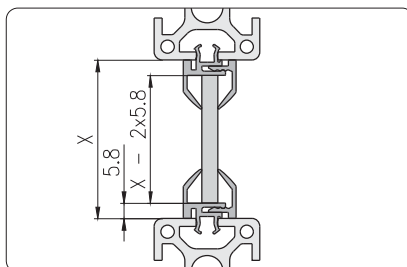
Technical data

bar length: 6 m

material: • base body: PVC rigid, 98° Shore A

• lip: PVC soft, TPE 60° ± 5° Shore A, compatible with acrylic glass

temperature range: -20°C to +80°C



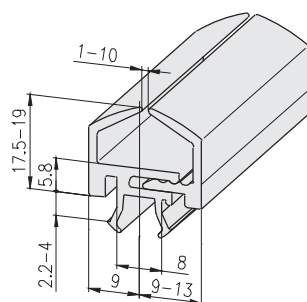
Comments



Suitable for panel elements from 1 to 10 mm thickness

Colours

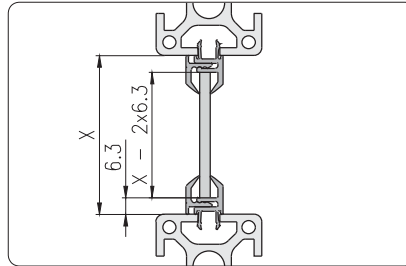
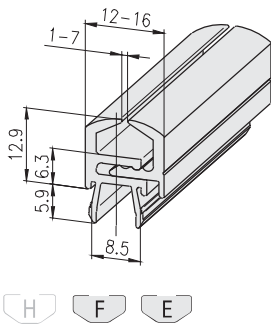
grey: similar to RAL 7035

black: similar to RAL 9011



Description	Colour		Weight	Article-No.
Framing profile F/E	grey	bar	1.1 kg/bar	1.41.710.1.60
 Framing profile F/E	grey	cut to length	181 g/m	1.41.710.1-A00A00/...
Framing profile F/E	black	bar	1.1 kg/bar	1.41.710.2.60
 Framing profile F/E	black	cut to length	181 g/m	1.41.710.2-A00A00/...

/... = length in mm





Comments

Suitable for panel elements from 1 to 7 mm thickness

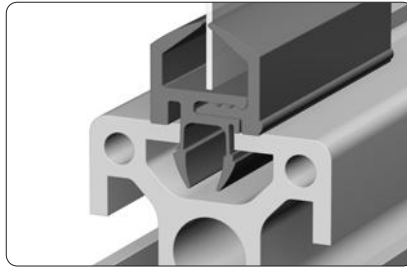
Colours

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

Description	Colour	Weight	Article-No.
Framing profile F/E, 1-7 mm	grey bar	960 g/bar	1.41.720107.1.60
 Framing profile F/E, 1-7 mm	grey cut to length	160 g/m	1.41.720107.1-A00A00/...
Framing profile F/E, 1-7 mm	black bar	960 g/bar	1.41.720107.2.60
 Framing profile F/E, 1-7 mm	black cut to length	160 g/m	1.41.720107.2-A00A00/...

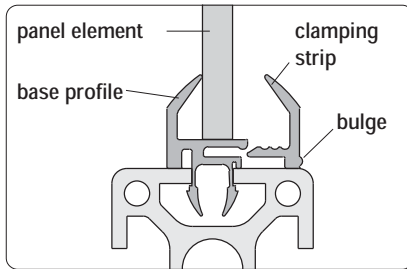
/... = length in mm

Framing profiles



Application

The framing profile allows the installation of panels in closed frames

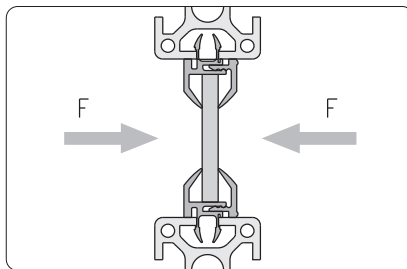


Assembly

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:

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

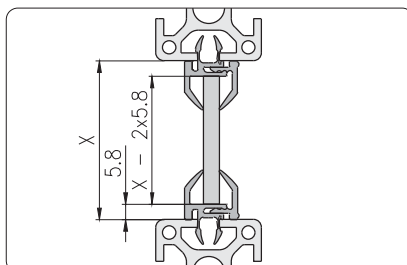
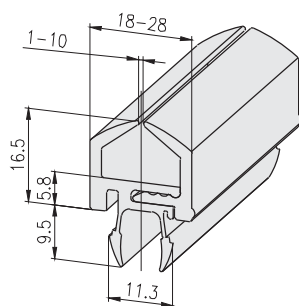
For maximum loading of element be aware of the stability of used framing profile

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

temperature range: -20°C to +80°C





Comments

Suitable for panel elements from 1 to 10 mm thickness

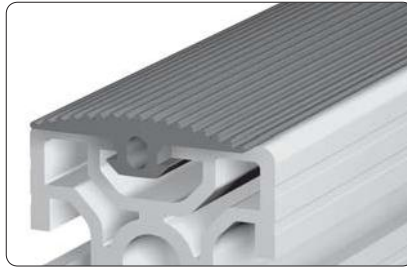
Colours

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

Description	Colour		Weight	Article-No.
Framing profile E	grey	bar	1.1 kg/bar	1.41.71E0110.1.60
 Framing profile E	grey	cut to length	181 g/m	1.41.71E0110.1-A00A00/...
Framing profile E	black	bar	1.1 kg/bar	1.41.71E0110.2.60
 Framing profile E	black	cut to length	181 g/m	1.41.71E0110.2-A00A00/...

/... = length in mm

Rubber cover-profiles



Application

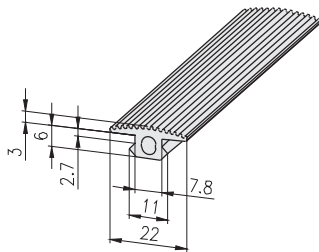
Rubber cover-profiles for profile protection

Suitable for:

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

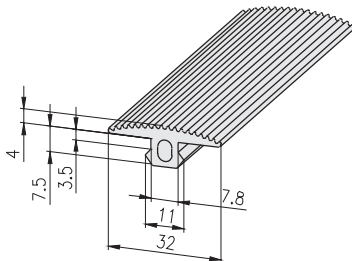
Technical data

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



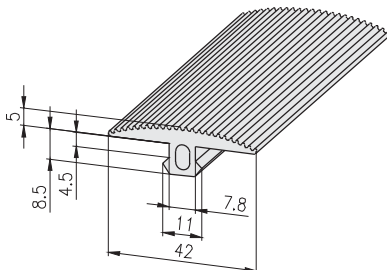
Description

Description	Weight	Article-No.
Rubber cover-profile F, black ring	2.4 kg/ring	1.41.8F30.20
Rubber cover-profile F, black cut to length	120 g/m	1.41.8F30-A00A00/... /... = length in mm



Description

Description	Weight	Article-No.
Rubber cover-profile E3, black ring	4.4 kg/ring	1.41.8E40.20
Rubber cover-profile E3, black cut to length	220 g/m	1.41.8E40-A00A00/... /... = length in mm



Description

Description	Weight	Article-No.
Rubber cover-profile E4, black ring	6.4 kg/ring	1.41.8E50.20
Rubber cover-profile E4, black cut to length	320 g/m	1.41.8E50-A00A00/... /... = length in mm

Cover caps



Application

Cover caps prevent dirt from entering and avoid lacerations.

Technical data

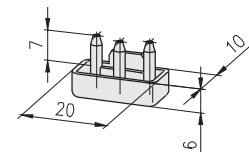
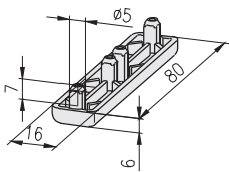
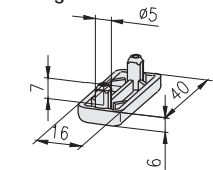
material: PA-GF
temperature range: -20°C to +85°C

Comments

Before mounting debur core hole

for profiles without core hole

Rectangle



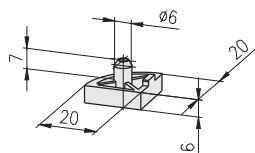
Description	Colour	Weight	Article-No.
Cover cap 16×40, E only for E-Slot	black	3.9 g	1.42.09016040.2

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

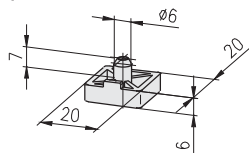
for profiles with core hole-Ø6

Soft



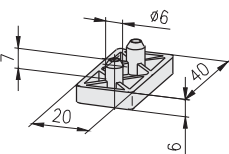
Description	Colour	Weight	Article-No.
Cover cap 20×20	grey	3 g	1.42.10200.1
Cover cap 20×20	black	3 g	1.42.10200.2

Square



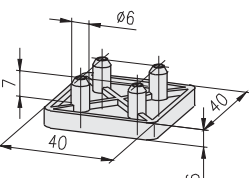
Description	Colour	Weight	Article-No.
Cover cap 20×20	grey	3 g	1.42.10202.1
Cover cap 20×20	black	3 g	1.42.10202.2

Rectangle



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

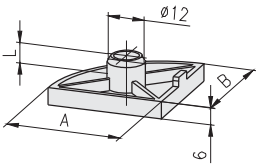
Square



Description	Colour	Weight	Article-No.
Cover cap 40×40	black	6 g	1.42.10404.2

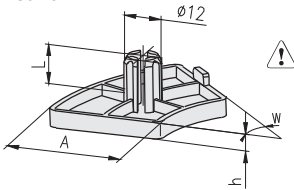
for profiles with core hole-Ø12

Soft



Description	AxB	L	Colour	Weight	Article-No.
Cover cap	30x30	7	grey	5 g	1.42.20300.1
Cover cap	30x30	7	black	5 g	1.42.20300.2
Cover cap	40x40	7	grey	8 g	1.42.20400.1
Cover cap	40x40	7	black	8 g	1.42.20400.2
Cover cap	45x45	14	black	10 g	1.42.2045000.2
Cover cap	50x50	7	grey	12 g	1.42.20500.1
Cover cap	50x50	7	black	12 g	1.42.20500.2

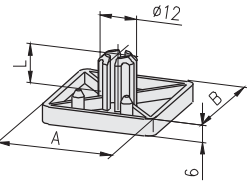
Round



note "h" !

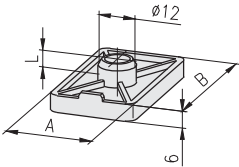
Description	A	W	h	L	Colour	Weight	Article-No.
Cover cap	40, round 30°	4	14		black	6 g	1.42.2040R30.2
Cover cap	40, round 45°	6	14		black	8 g	1.42.2040R45.2
Cover cap	40, round 60°	6	14		black	12 g	1.42.2040R60.2
Cover cap	40, round 90°	6	14		black	16 g	1.42.2040R90.2

Square

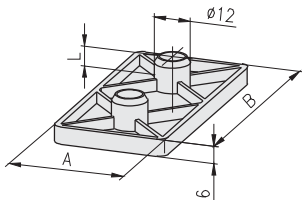


Description	AxB	L	Colour	Weight	Article-No.
Cover cap	30x30	14	grey	6 g	1.42.20303.1
Cover cap	30x30	14	black	6 g	1.42.20303.2
Cover cap	40x40	14	grey	10 g	1.42.20404.1
Cover cap	40x40	14	black	10 g	1.42.20404.2
Cover cap	45x45	14	black	12 g	1.42.2045045.2
Cover cap	50x50	7	grey	15 g	1.42.20505.1
Cover cap	50x50	7	black	15 g	1.42.20505.2
Cover cap	60x60	14	black	18 g	1.42.2060060.2

Rectangle

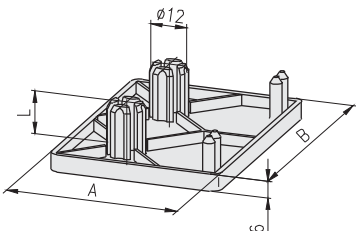


Description	AxB	L	Colour	Weight	Article-No.
Cover cap	20x30	7	black	4 g	1.42.20203.2
Cover cap	30x50	7	grey	8 g	1.42.20305.1
Cover cap	30x50	7	black	8 g	1.42.20305.2
Cover cap	45x60	14	black	12.1 g	1.42.2045060.2

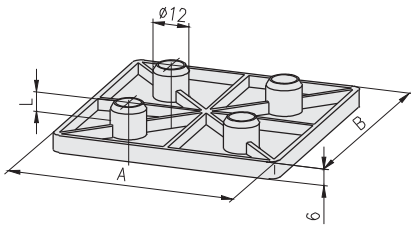


Description	AxB	L	Colour	Weight	Article-No.
Cover cap	30x60	7	grey	8 g	1.42.20306.1
Cover cap	30x60	7	black	8 g	1.42.20306.2
Cover cap	30x100	7	black	20 g	1.42.20310.2
1) Cover cap	30x150	7	black	27 g	1.42.20315.2
Cover cap	40x80	7	grey	18 g	1.42.20408.1
Cover cap	40x80	7	black	18 g	1.42.20408.2
Cover cap	45x90	14	black	20.5 g	1.42.2045090.2
Cover cap	50x100	7	grey	26 g	1.42.20510.1
Cover cap	50x100	7	black	26 g	1.42.20510.2
Cover cap	50x150	7	black	40 g	1.42.20515.2
Cover cap	60x90	14	black	25.9 g	1.42.2060090.2

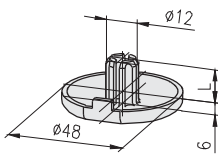
1) only for E-Slot



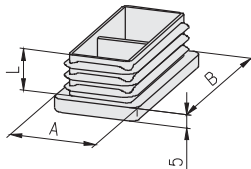
Description	AxB	L	Colour	Weight	Article-No.
Cover cap	60x80	14	black	21.4 g	1.42.2060080.2

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

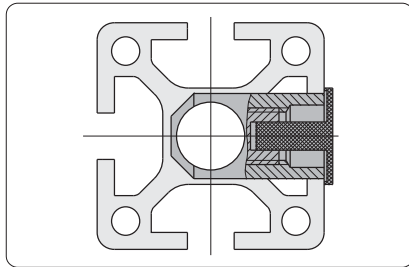
for tube profile


Description	A×B	L	Colour	Weight	Article-No.
Cover cap	30×60 for tube profile	14.5	black	10.2 g	1.42.217.030060.2
Cover cap	30×100 for tube profile	14.5	black	17.7 g	1.42.217.030100.2

Cover plugs



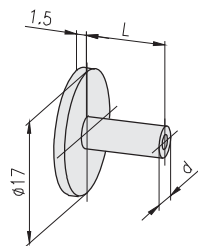
Cover plug in combination with cover profile


Application

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

Technical data

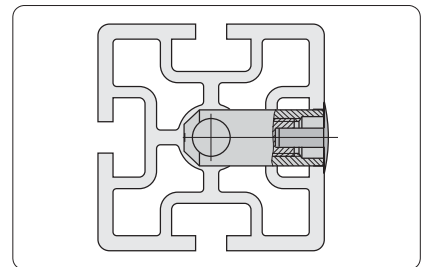
material: PE



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

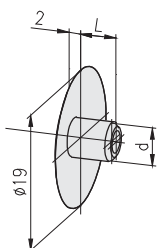
C


Application

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

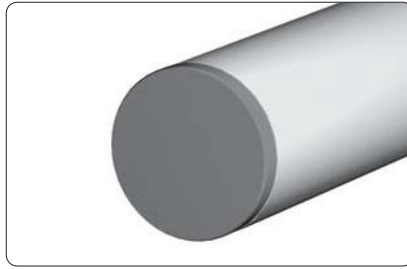
Technical data

material: PE



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

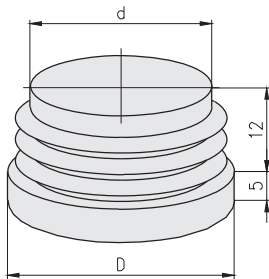


Application

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

Technical data

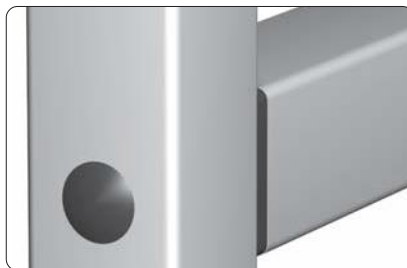
material: PE



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

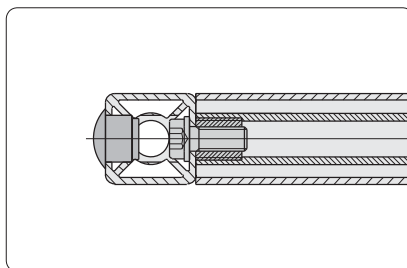
Cover caps for screw bores

C

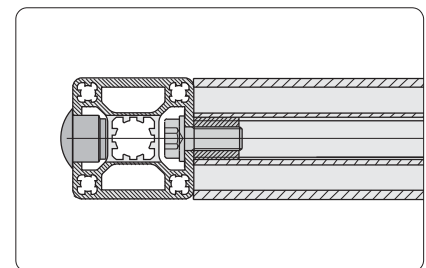


Application

The cover plug allows the closing of the screw bore



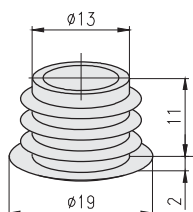
Profile 30



Profile 40

Technical data

material: PE



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

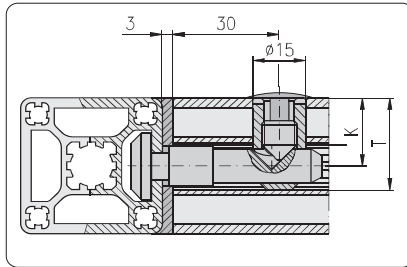


Application

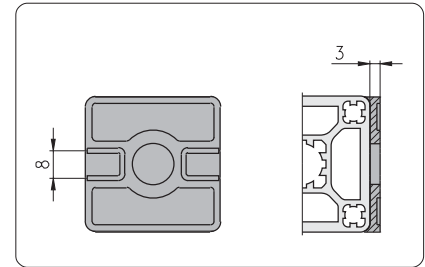
For covering the exterior profile radius

Technical data

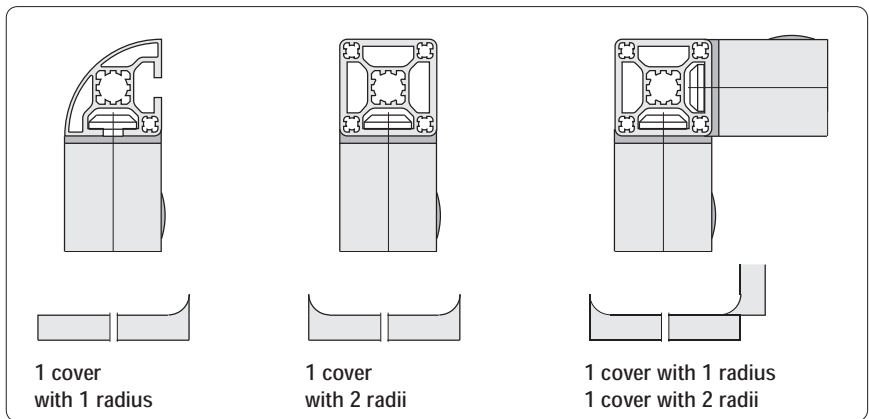
material: PA-GF



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



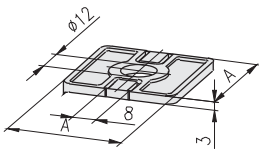
For mounting of panels the slots can be broken out



Mounting-Variations

Square

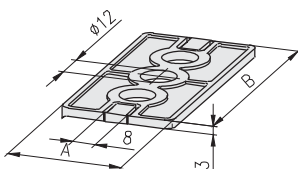
with one radius



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

Rectangle

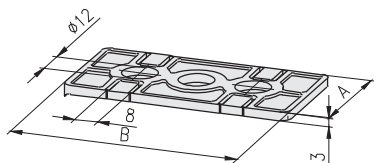
with one radius



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°

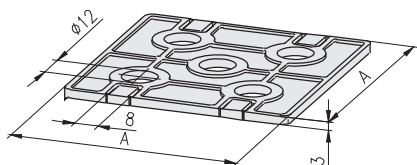
with one radius



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

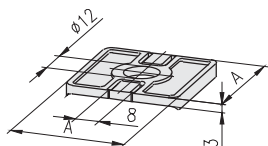
with one radius



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

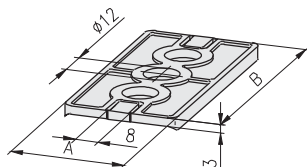
with two radii



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

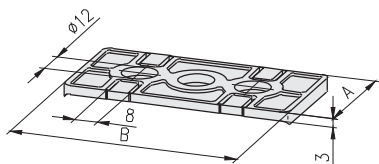
with two radii



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°

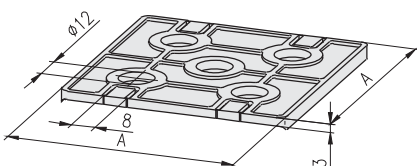
with two radii



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

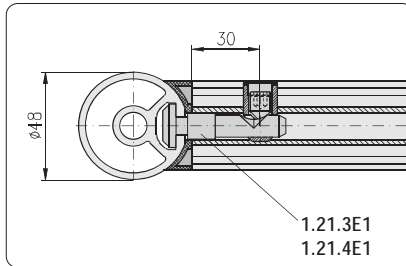
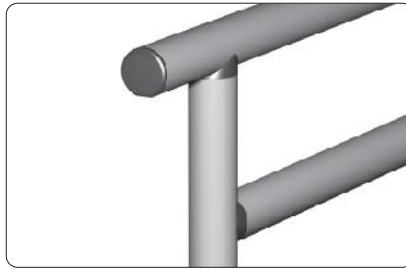


Application

Radius compensation for hand rails
 ↗ Profile applications 1.1E.03

Comments

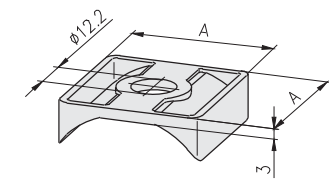
Angled joints at any required angle
 Not suitable for the use with tilted hand rails



Working dimensions for hand rail straight with radius compensation

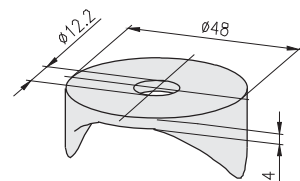
Technical data

material: PA-GF



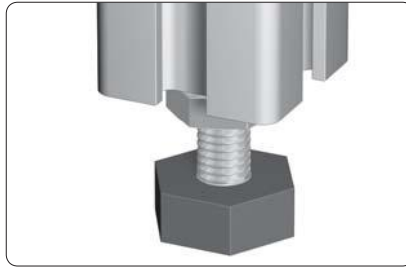
- 16
- 20
- 30
- 40
- 45
- 50
- 60

Description	AxA	Colour	Weight	Article-No.
Radius compensations	30x30	grey	4.0 g	1.43.71030030.1
Radius compensations	30x30	black	4.0 g	1.43.71030030.2
Radius compensations	40x40	grey	7.0 g	1.43.71040040.1
Radius compensations	40x40	black	7.0 g	1.43.71040040.2



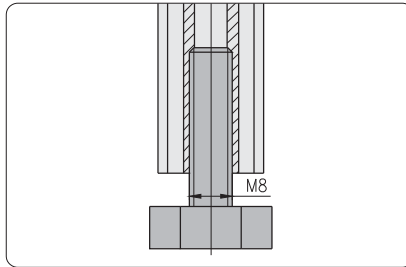
Description	Colour	Weight	Article-No.
Radius compensations Ø48	grey	4.0 g	1.43.71048000.1
Radius compensations Ø48	black	4.0 g	1.43.71048000.2

Levelling feet

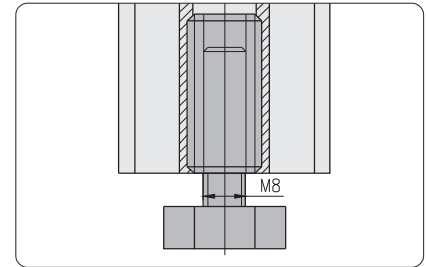


Assembly

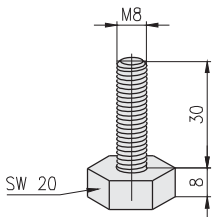
Fastening in core hole Ø6 mm with thread M8



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

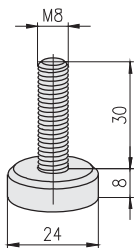
Floor levelling screw, SW20, M8x30

Weight

20 g

Article-No.

1.44.002003



Technical data

- material:
- plate: PE-HD
 - screw: steel, galvanised
- max. static load: 2,500 N

Description

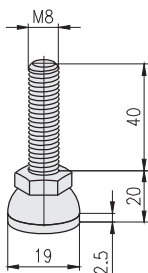
Floor levelling screw, Ø24, M8x30

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 M8x40

Weight

24 g

Article-No.

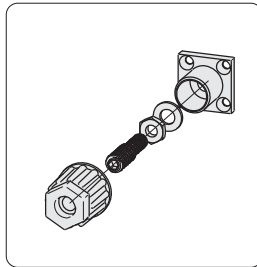
1.44.003020

Hand adjustable feet

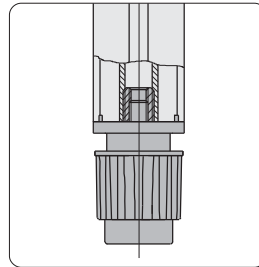


Application

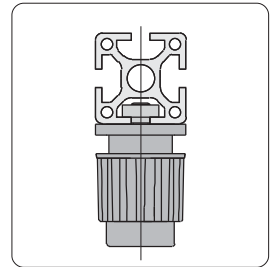
For manual levelling of benches, tables and light bases.



Height adjustable alternative by hand or with tool



Fastening in core hole

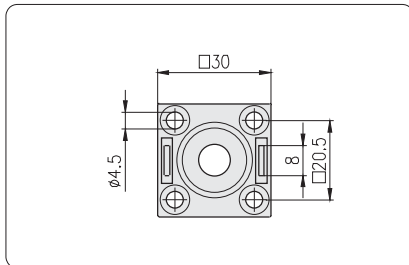
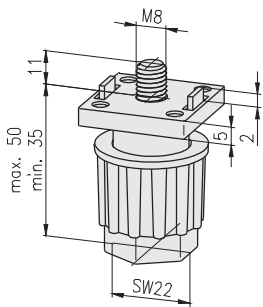


Fastening in slot

Technical data

material:

- capsule: PA, black
 - spindle, nut and washer: steel galvanised
- max. static load: 1,500 N



Description

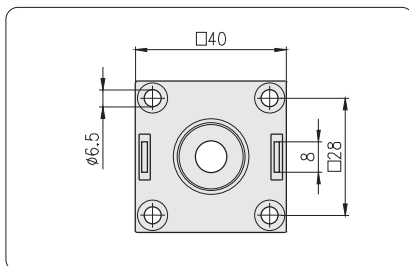
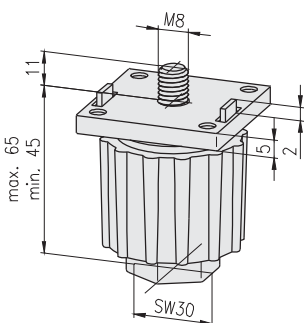
Hand adjustable foot 30

Weight

40 g

Article-No.

1.44.203008



Description

Hand adjustable foot 40

Weight

78 g

Article-No.

1.44.204008

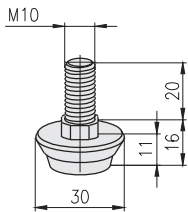
Levelling feet



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

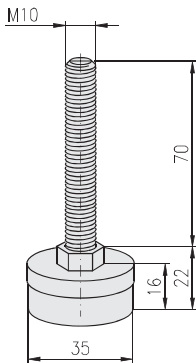
Levelling furniture foot, Ø30, M10×18

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

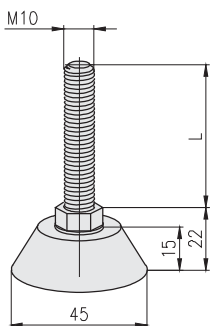
Levelling foot, Ø35, M10×70

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, M10×50

60 g

1.44.304505

Levelling foot, Ø45, M10×70

69 g

1.44.304507

Adjustable tilt-feet



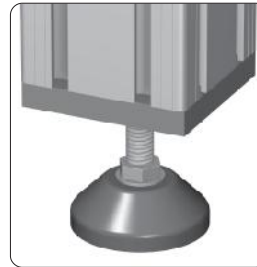
Application

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

- tables
- bases
- shelves
- stands



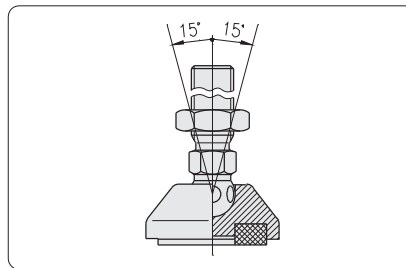
Fastening in core hole thread M14



Fastening with base plate, for profiles without centric core hole



Fastening by press-fit threaded insert across the profile

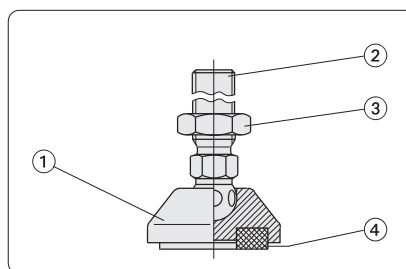


Levelling via ball and ball socket $\pm 15^\circ$

Comments

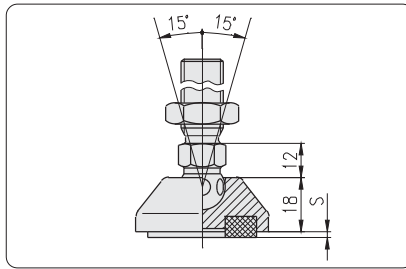
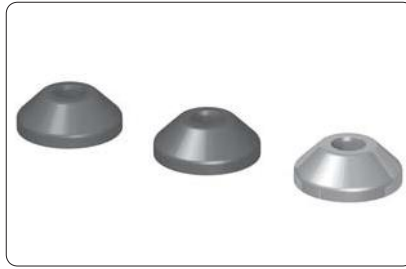
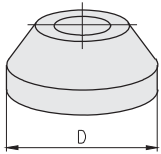
Infinitely variable adjustable tilt-feet for use either with:

- anti-slip disc
- cushion element



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

Adjustable tilt-foot plates without mounting holes



Design 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

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

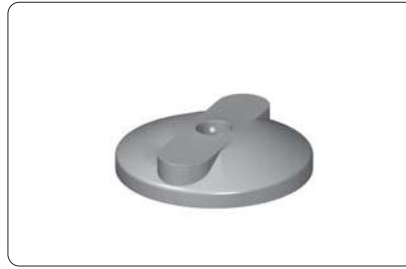
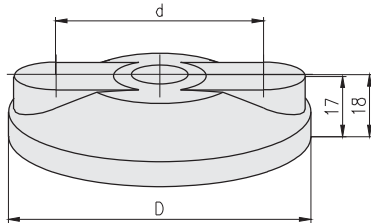
Adjustable tilt-foot plate GD-Zn, 30	Ø29	20 kN	48 g	1.44.431030
Adjustable tilt-foot plate GD-Zn, 40	Ø39	30 kN	70 g	1.44.431040
Adjustable tilt-foot plate GD-Zn, 45	Ø44	30 kN	90 g	1.44.431045
Adjustable tilt-foot plate GD-Zn, 50	Ø49	30 kN	126 g	1.44.431050
Adjustable tilt-foot plate GD-Zn, 60	Ø59	30 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

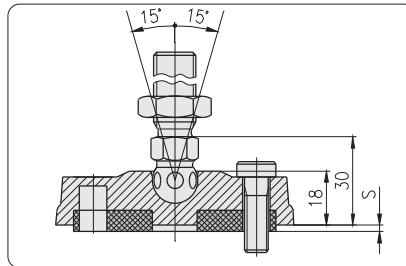


Technical data

material:

PA: PA-GF, black

F = static load max. in kN



Comments

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

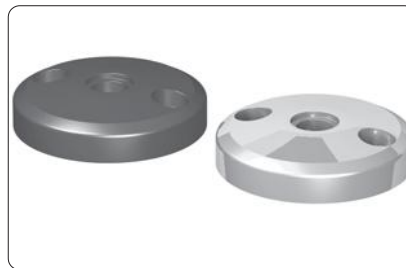
S = height of:

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

Design with mounting holes

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

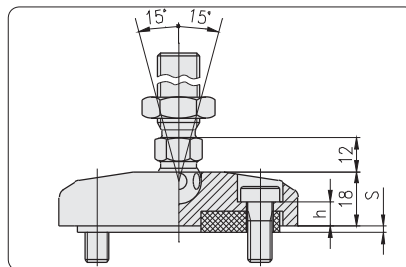
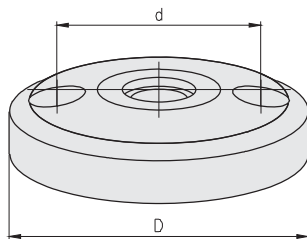


Technical data

material:

GD-Zn: GD-Zn, black powder-coated
stainless: stainless steel 1.4305
pickled and passivated

F = static load max. in kN



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)

Design with mounting holes

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



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

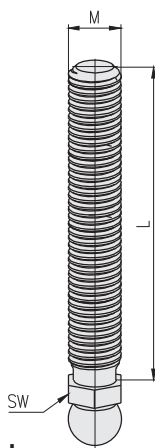
Adjustable tilt-foot spindles



Technical data

material:
 steel: steel, galvanised
 stainless: stainless steel 1.4305,
 pickled and passivated

Steel



Stainless steel

C **R**

Description	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

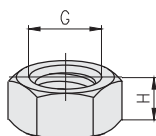
Adjustable tilt-foot nuts



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.
Adjustable tilt-foot nut	M8	5	5 g	1.44.46M08
Adjustable tilt-foot nut	M10	6	8 g	1.44.46M10
Adjustable tilt-foot nut	M12	7	10 g	1.44.46M12
Adjustable tilt-foot nut	M14	8	16 g	1.44.46M14
Adjustable tilt-foot nut	M16	8	17 g	1.44.46M16
Adjustable tilt-foot nut	M20	9	35 g	1.44.46M20
Adjustable tilt-foot nut, stainless	M14	8	16 g	1.44.46M14V

Adjustable tilt-foot anti-slip discs

C

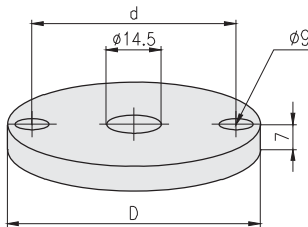
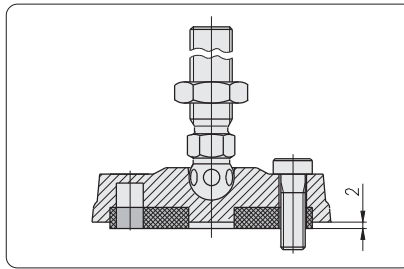


Application

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

	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

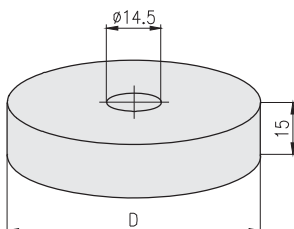
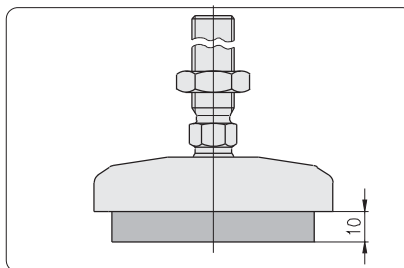


Application

Cushion elements

Technical data

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



Description

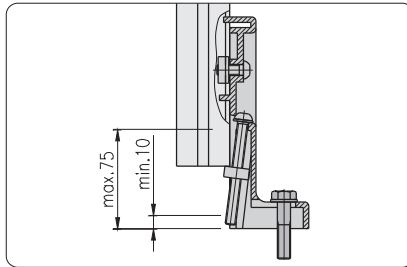
	D	F	Weight	Article-No.
Adj. tilt-foot cushion element for plate 40	Ø30	150 N	14 g	1.44.472040
Adj. tilt-foot cushion element for plate 45	Ø35	175 N	19 g	1.44.472045
Adj. tilt-foot cushion element for plate 50	Ø39	200 N	24 g	1.44.472050
Adj. tilt-foot cushion element for plate 60	Ø49	250 N	35 g	1.44.472060
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

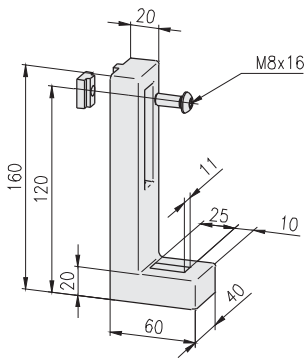
For fastening of frames to floor or wall



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 M8x16 - 10.9

Description

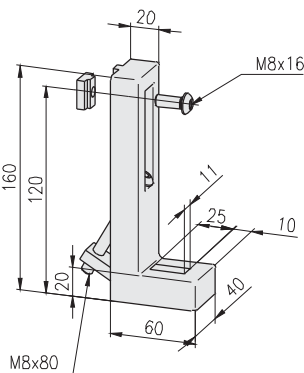
Angular adjusting foot without adjusting screw

Weight

Article-No.

468 g

1.44.716001



Delivery unit:

- base body
- nut M8
- screw M8x16 - 10.9
- screw M8x80 - 10.9
- square nut

Description

Angular adjusting foot with adjusting screw

Weight

Article-No.

519 g

1.44.716002

**Base foot
for profile 40x40**

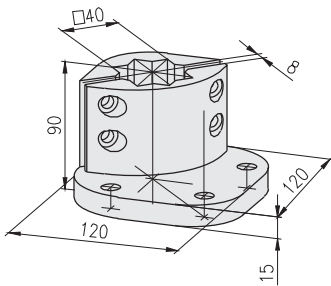
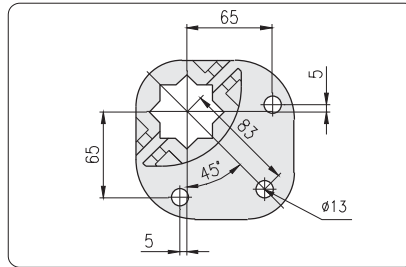


Application

Base feet for fastening profiles and frames to floor or wall

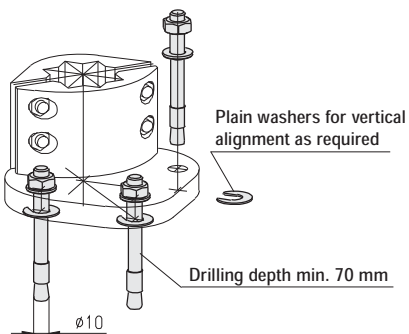
Technical data

material: GD-Zn



Description	Weight	Article-No.
Base foot for profile 40x40	979 g	1.44.83040

Floor mounting set



Description	Weight	Article-No.
Floor mounting set 3 MKT	202.3 g	1.44.83BB
Single parts	Pcs.	Weight
Pin anchor MKT, B10/20/95	3	65.3 g
Plain washer 1xØ24/11	8	0.8 g
		Article-No.
		0.66.MKT.B1020/95
		1.44.89011324

Base feet

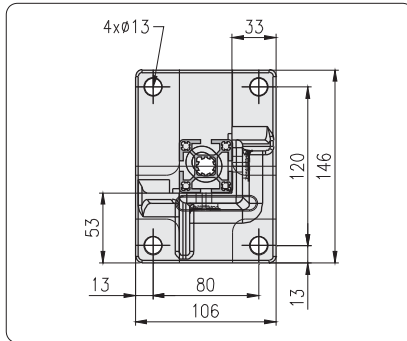
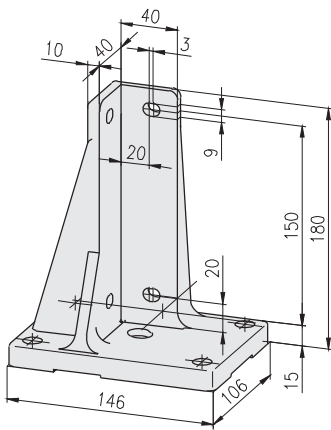


Application

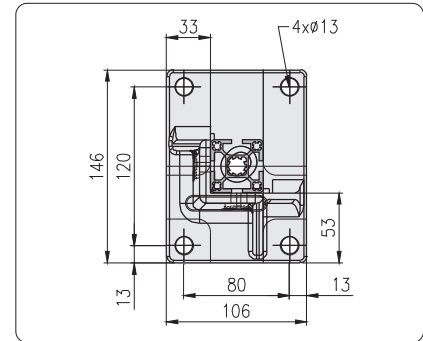
Base feet for fastening profiles and frames to floor or wall

Technical data

material: GK AlZn 10Si8Mg



40x40, type 1, left



40x40, type 1, right

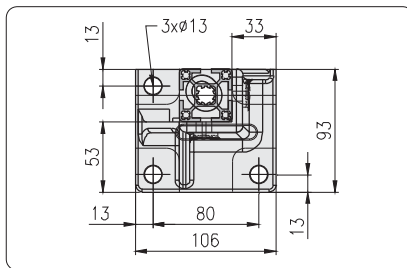
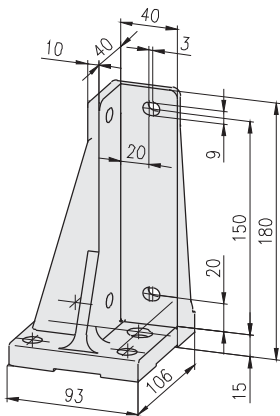
Comments

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

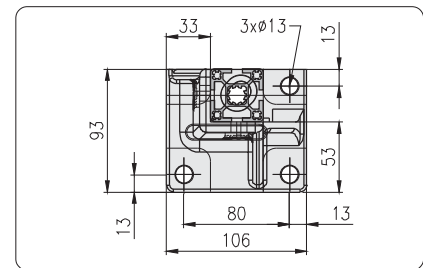
Mounting sets (↔ 194, 195)

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

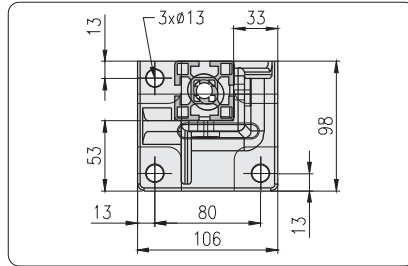
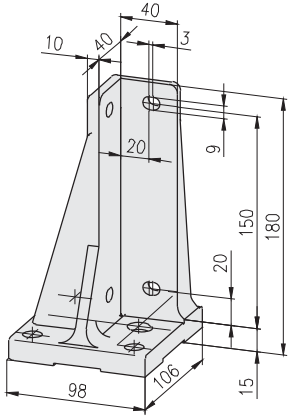
Comments

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

Mounting sets (↔ 194, 195)

Floor mounting set 3 MKT
Profile mounting set 4 EM8

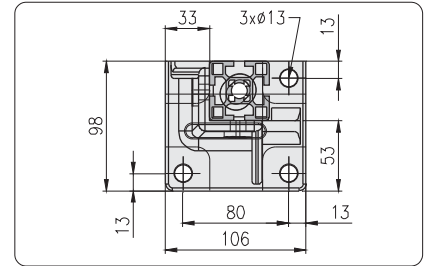
Description	for profile	Weight	Article-No.
Base foot 40x40, type 2, left	40x40	0.83 kg	1.44.84.4040.40L
Base foot 40x40, type 2, right	40x40	0.83 kg	1.44.84.4040.40R



45x45, type 2, left

Comments

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

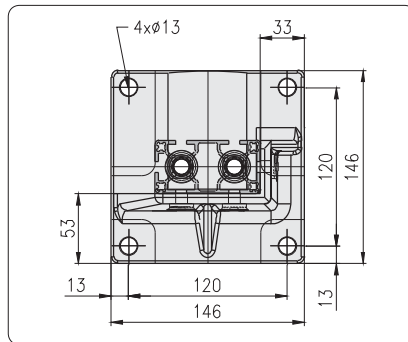
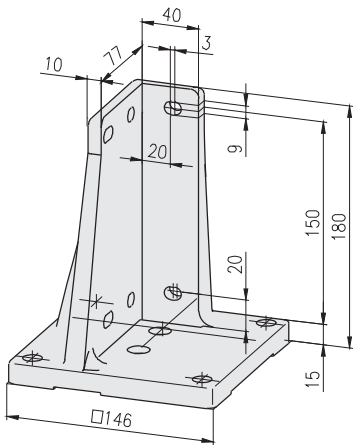


45x45, type 2, right

Mounting sets (↔ 194, 195)

Floor mounting set 3 MKT
Profile mounting set 4 EM8

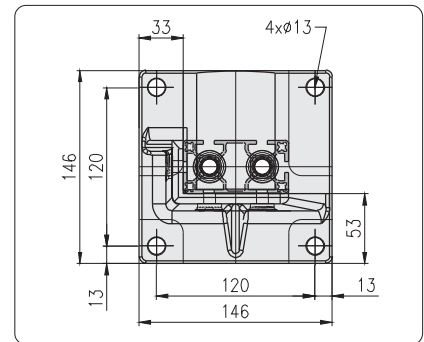
Description	for profile	Weight	Article-No.
Base foot 45x45, type 2, left	45x45	0.85 kg	1.44.84.4545.45L
Base foot 45x45, type 2, right	45x45	0.85 kg	1.44.84.4545.45R



40x80, type 1, left

Comments

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

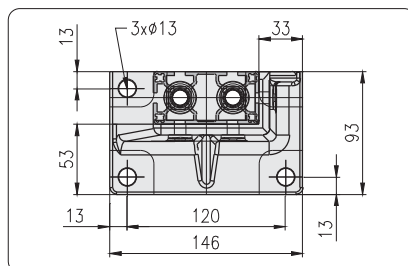
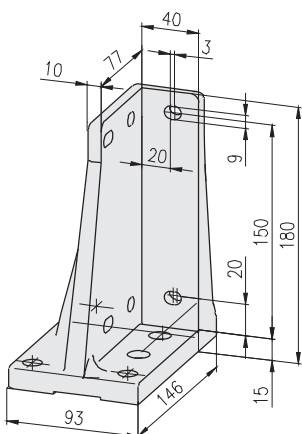


40x80, type 1, right

Mounting sets (↔ 194, 195)

Floor mounting set 4 MKT
Profile mounting set 6 EM8

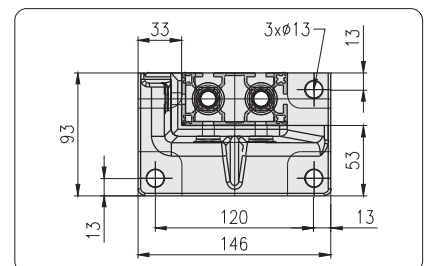
Description	for profile	Weight	Article-No.
Base foot 40x80, type 1, left	40x80, 60x80, 45x90	1.39 kg	1.44.84.4080.00L
Base foot 40x80, type 1, right	40x80, 60x80, 45x90	1.39 kg	1.44.84.4080.00R



40x80, type 2, left

Comments

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

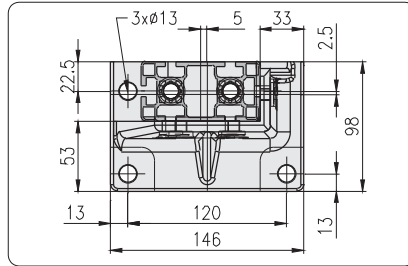
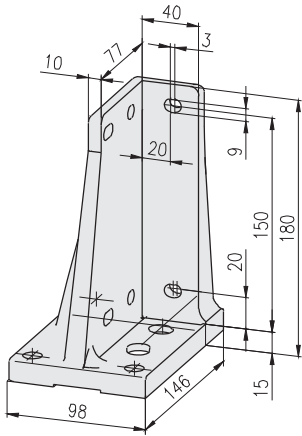


40x80, type 2, right

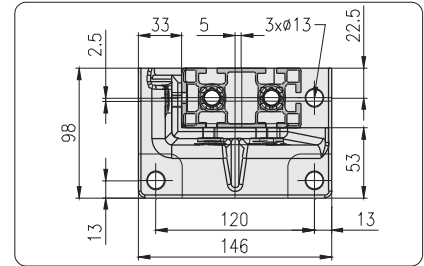
Mounting sets (↔ 194, 195)

Floor mounting set 3 MKT
Profile mounting set 6 EM8

Description	for profile	Weight	Article-No.
Base foot 40x80, type 2, left	40x80	1.01 kg	1.44.84.4080.40L
Base foot 40x80, type 2, right	40x80	1.01 kg	1.44.84.4080.40R



45x90, type 2, left



45x90, type 2, right

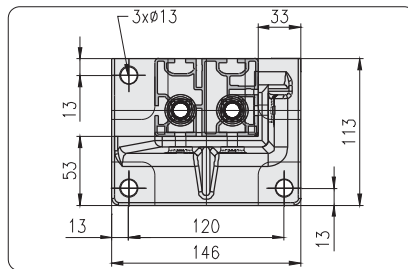
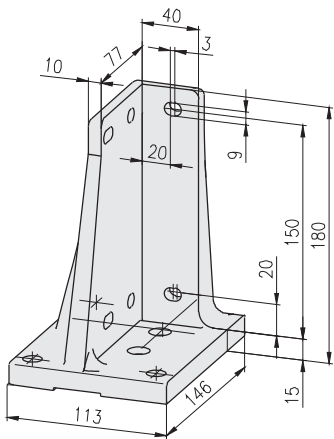
Comments

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

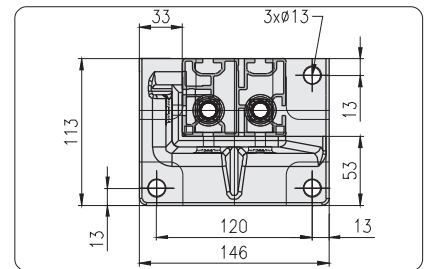
Mounting sets (↔ 194, 195)

Floor mounting set 3 MKT
Profile mounting set 6 EM8

Description	for profile	Weight	Article-No.
Base foot 45x90, type 2, left	45x90	1.10 kg	1.44.84.4590.45L
Base foot 45x90, type 2, right	45x90	1.10 kg	1.44.84.4590.45R



60x80, type 2, left



60x80, type 2, right

Comments

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

Mounting sets (↔ 194, 195)

Floor mounting set 3 MKT
Profile mounting set 6 EM8

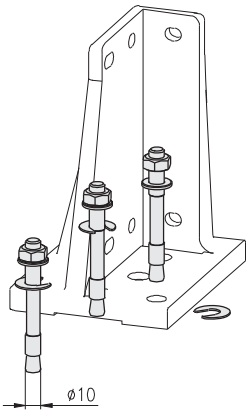
Description	for profile	Weight	Article-No.
Base foot 60x80, type 2, left	60x80	1.25 kg	1.44.84.6080.60L
Base foot 60x80, type 2, right	60x80	1.25 kg	1.44.84.6080.60R

Floor mounting sets

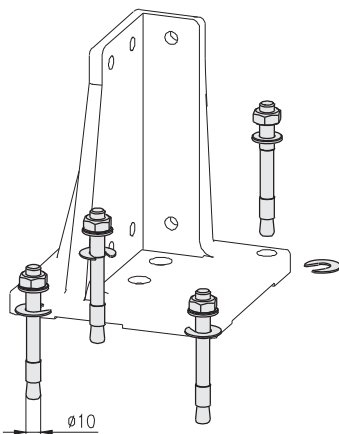
Cross-reference list for base feet and floor mounting sets			
Base foot	Article-No.	Floor mounting set	
		3 MKT, 1.44.83BB	4 MKT, 1.44.84BB
40×40, type 1, le/ri	1.44.84.4040.00x		•
40×40, type 2, le/ri	1.44.84.4040.40x	•	
40×80, type 1, le/ri	1.44.84.4080.00x		•
40×80, type 2, le/ri	1.44.84.4080.40x	•	
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

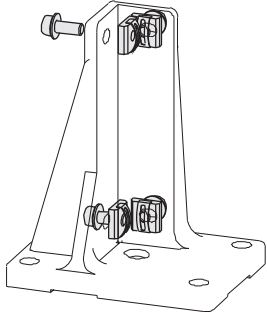
- Drilling depth min. 70 mm
- Plain washers for vertical alignment as required



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:

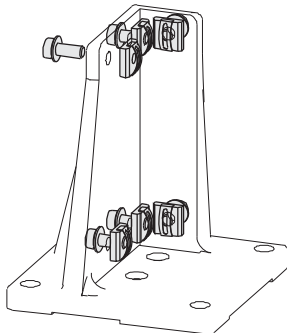
- 40×40
- 45×45

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

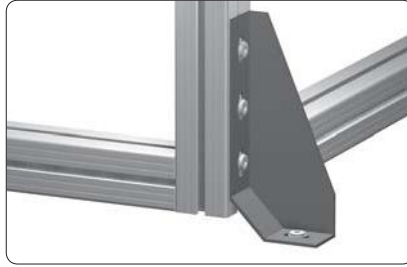
Suitable for mounting of the profiles:

- 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

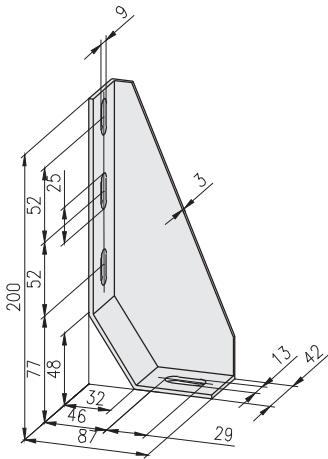
For fastening of frames to floor or wall



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

Technical data

material: sheet steel
surface: galvanised and black coated



Description

Base angle 200x87x42

Weight

413 g

Article-No.

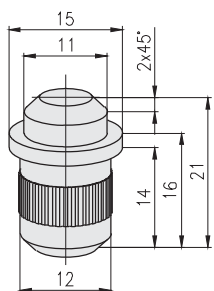
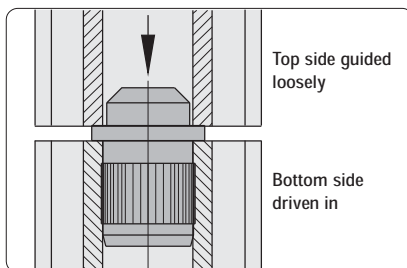
1.44.820001

Stacking foot



Application

Element to fix 2 profiles in core hole



Technical data

material: steel
surface: galvanised

Description

Stacking foot

Weight

19 g

Article-No.

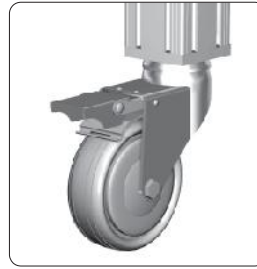
1.44.901221



Castors



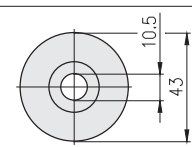
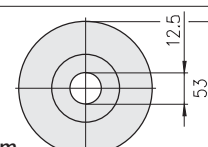
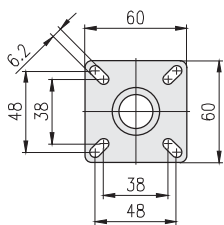
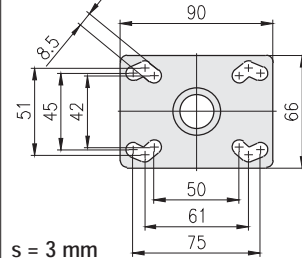
Fastening in core hole



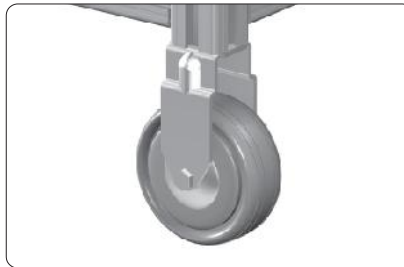
Fastening through base plate for profile without centric core hole



Fastening by press-fit threaded insert across the profile

Variations		
Castor-Ø	50 mm / 75 mm	100 mm / 125 mm
Bolt hole type	 s = 7 mm	 s = 10.5 mm
Fitting plate type	 s = 2 mm	 s = 3 mm

Fixed castors



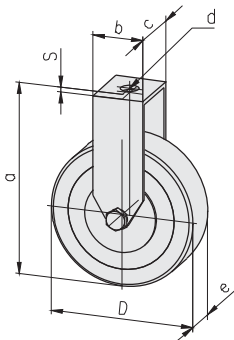
Technical data

material:

- capsule: sheet steel, galvanised
- wheels: solid rubber tyres, grey

Ø75/100/125 incl. thread protection

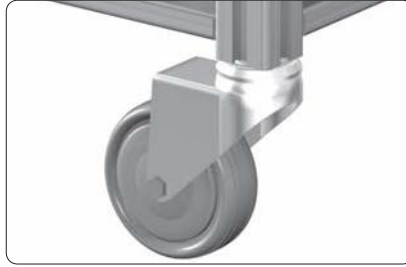
max. static load: F_{max}



Description	D	a	Weight	Article-No.
Fixed castor with bolt hole	Ø50	69	130 g	1.45.11050
Fixed castor with bolt hole	Ø75	98	240 g	1.45.11075
Fixed castor with bolt hole	Ø100	133	500 g	1.45.11100
Fixed castor with bolt hole	Ø125	158	900 g	1.45.11125
Fixed castor with fitting plate	Ø50	71	190 g	1.45.12050
Fixed castor with fitting plate	Ø75	100	300 g	1.45.12075
Fixed castor with fitting plate	Ø100	136	610 g	1.45.12100
Fixed castor with fitting plate	Ø125	161	1,010 g	1.45.12125

Design bolt hole						
D	b	c	d	e	s	F_{max}
Ø50	30	27	Ø10.5	18	2.0	400 N
Ø75	34	27	Ø10.5	25	2.0	550 N
Ø100	57	43	Ø12.5	32	2.5	800 N
Ø125	57	43	Ø12.5	32	2.5	1,000 N

Swivel castors



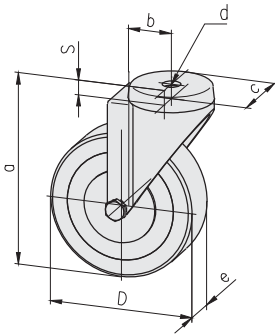
Technical data

material:

- capsule: sheet steel, galvanised
- wheels: solid rubber tyres, grey

Ø75/100/125 incl. thread protection

max. static load: F_{max}



Description	D	a	Weight	Article-No.
Swivel castor with bolt hole	Ø50	69	180 g	1.45.21050
Swivel castor with bolt hole	Ø75	98	310 g	1.45.21075
Swivel castor with bolt hole	Ø100	133	680 g	1.45.21100
Swivel castor with bolt hole	Ø125	158	890 g	1.45.21125
Swivel castor with fitting plate	Ø50	71	230 g	1.45.22050
Swivel castor with fitting plate	Ø75	100	360 g	1.45.22075
Swivel castor with fitting plate	Ø100	136	780 g	1.45.22100
Swivel castor with fitting plate	Ø125	161	990 g	1.45.22125

Dimensions see table below

Swivel castors lockable



Technical data

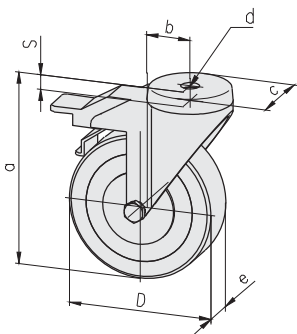
material:

- capsule: sheet steel, galvanised
- wheels: solid rubber tyres, grey

stop fix: - wheel break
- swivel break

Ø75/100/125 incl. thread protection

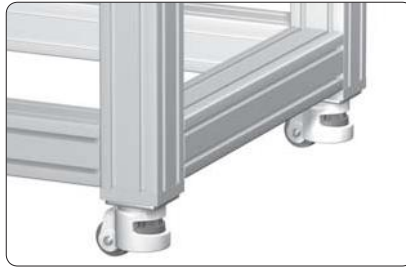
max. static load: F_{max}



Description	D	a	Weight	Article-No.
Swivel castor, lockable with bolt hole	Ø50	69	220 g	1.45.31050
Swivel castor, lockable with bolt hole	Ø75	98	450 g	1.45.31075
Swivel castor, lockable with bolt hole	Ø100	133	840 g	1.45.31100
Swivel castor, lockable with bolt hole	Ø125	158	990 g	1.45.31125
Swivel castor, lockable with fitting plate	Ø50	71	270 g	1.45.32050
Swivel castor, lockable with fitting plate	Ø75	100	500 g	1.45.32075
Swivel castor, lockable with fitting plate	Ø100	136	940 g	1.45.32100
Swivel castor, lockable with fitting plate	Ø125	161	1,090 g	1.45.32125

Design bolt hole						
D	b	c	d	e	s	F_{max}
Ø50	25	Ø43	Ø10.5	18	10.5	400 N
Ø75	30.5	Ø43	Ø10.5	25	10.5	550 N
Ø100	43	Ø57	Ø12.5	32	10.5	800 N
Ø125	43	Ø57	Ø12.5	32	10.5	1,000 N

Locking castors



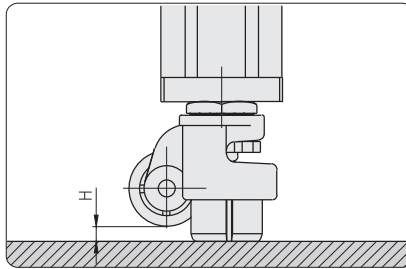
Application

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

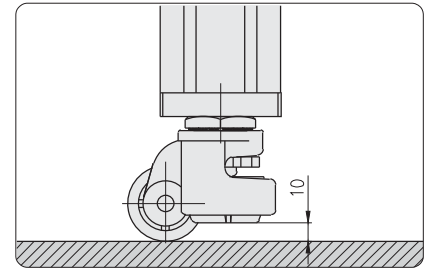
Technical data

material:

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



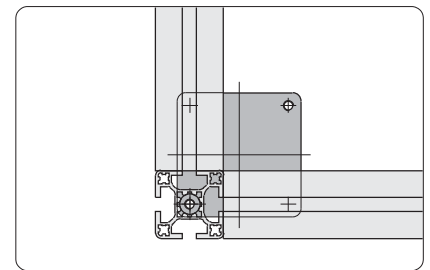
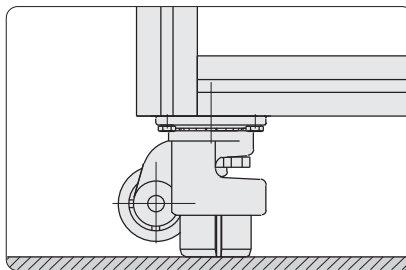
Extended support foot to secure position



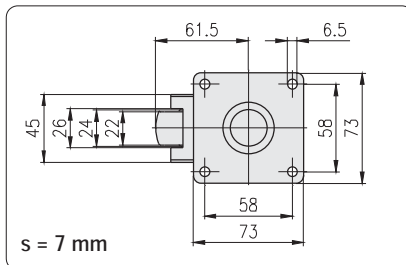
Retracted support foot for easy movement

Design					
D	a	b _{max}	c	H _{max}	F _{max}
Ø50	83	93	98	10	2,000 N
Ø62	102	117	122	15	4,000 N

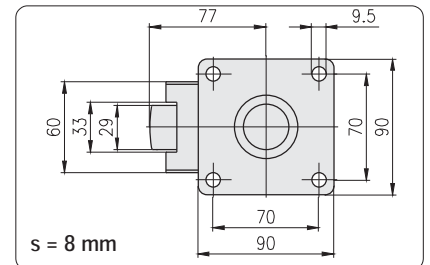
Locking castors with plate



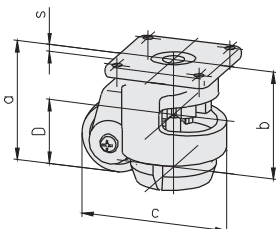
Mounting on profile frame using core hole and slot



Castor-Ø50

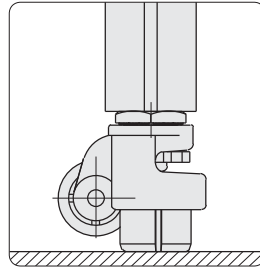


Castor-Ø62

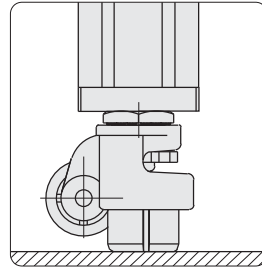


Description	D	Weight	Article-No.
Locking castor 200 kg, with plate	Ø50	760 g	1.45.80200.073
Locking castor 400 kg, with plate	Ø62	1,380 g	1.45.80400.090

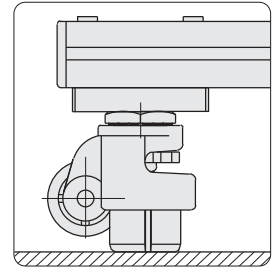
Locking castors with center thread



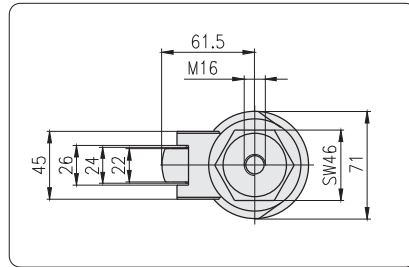
Fastening in core hole



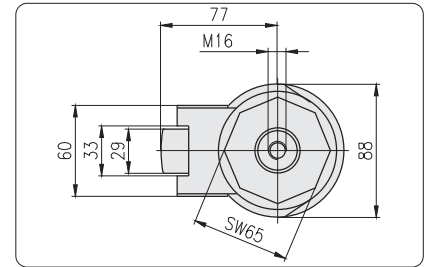
Fastening through base plate for profiles without central core hole



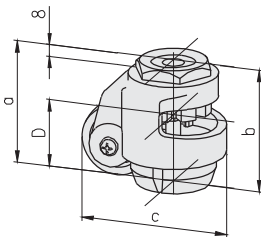
Fastening with press-fit threaded insert and base plate across the profile



Castor-Ø50

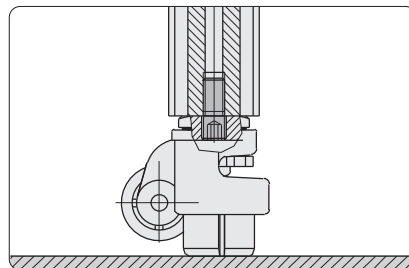


Castor-Ø62

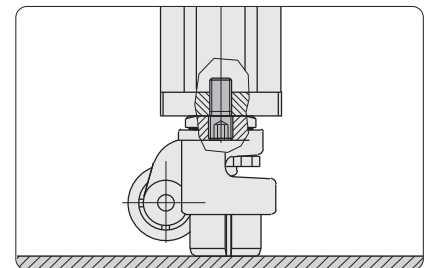


Description	D	Weight	Article-No.
Locking castor 200 kg, with center thread	Ø50	760 g	1.45.81200.046
Locking castor 400 kg, with center thread	Ø62	1,380 g	1.45.81400.065

Threaded bolt for locking castor with center thread



Threaded bolt for fastening in core hole



Threaded bolt for fastening with base plate

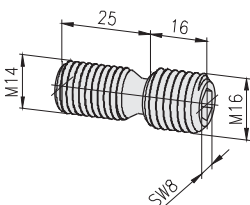
Application

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 M16/M14	28 g	1.45.81000.M16M14

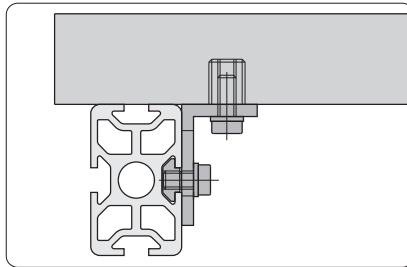
Angles 25x40



Fastening of panels

Application

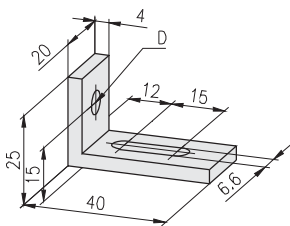
Angle bracket for the mounting of panels, table tops, switches and accessories



Fastening of table tops

Technical data

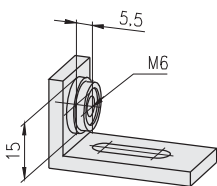
material: aluminium
 strength: F22
 surface: natural anodised



Comments

Design with clearance hole drilling

Description	D	Weight	Article-No.
Angle 25x40	Ø6.6	11 g	1.46.110
Angle 25x40	Ø8.7	10 g	1.46.115



Comments

Design with nut M6 ± 0.5 mm floating in cage

Description	Weight	Article-No.
Angle 25x40, M6	15 g	1.46.120

Angles PA



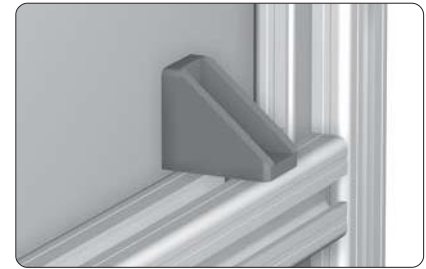
Support of free-standing profiles

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

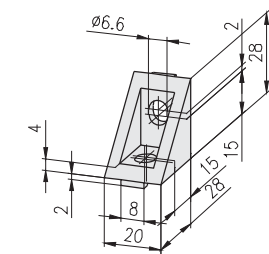


Mounting of cover panels
In this application the rotary lock must be removed from both sides

Technical data

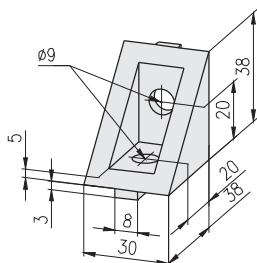
material: PA-GF

20x28



Description	Colour	Weight	Article-No.
Angle PA, 20x28	grey	6.4 g	1.46.203.2028.1
Angle PA, 20x28	black	6.4 g	1.46.203.2028.2

30x38



Description	Colour	Weight	Article-No.
Angle PA, 30x38	grey	18.9 g	1.46.203.3038.1
Angle PA, 30x38	black	18.9 g	1.46.203.3038.2

Angles GD-Zn



Application

For supporting profiles and mounting various machine components



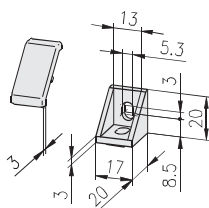
Technical data

material:

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

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

17x20



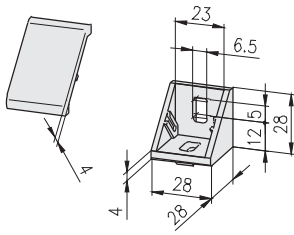
Description	Surface	Weight	Article-No.
Angle GD-Zn, 17x20	natural	13.7 g	1.46.204.1720.1
Angle GD-Zn, 17x20	powder-coated	13.7 g	1.46.204.1720.2
Cover cap for angle GD-Zn, 17x20		1.7 g	1.46.204.1720A
Angle connection set	1720 H/H	20.9 g	1.46.204.1720.□HH
Angle connection set	1720 H/F	23.6 g	1.46.204.1720.□HF
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

Single parts: Angle connection sets 1720					
Angle	Slot	Fastening elements			
	H	threaded plate		lens head screw	Pcs.
	F	T-slot nut			
1.46.204.1720.□	H	H	1.31.4HM5	0.63.WN7381.05006	2
1.46.204.1720.□	H	H	1.31.4HM5	0.63.WN7381.05006	1
		F	1.34.10FM5	0.63.WN7381.05008	1
1.46.204.1720.□	F	F	1.34.10FM5	0.63.WN7381.05008	2

Single parts: Angle connection sets 1720 T					
Angle	Slot	Fastening elements			
	H	threaded plate		lens head screw	Pcs.
	F	T-nut for subs. insertion			
1.46.204.1720□	H	H	1.31.4HM5	0.63.WN7381.05006	1
		F	1.32.4FM5	0.63.WN7381.05008	1
1.46.204.1720□	F	F	1.32.4FM5	0.63.WN7381.05008	2




-
- 1 angle natural
- 2 angle powder-coated

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

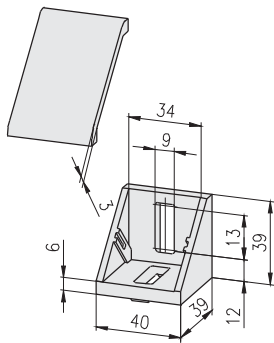
Single parts: Angle connection sets 2828

Angle	Slot	Fastening elements		
		T-slot nut	lens head screw	Pcs.
				
1.46.204.2828.□	F F	1.34.10FM6	0.63.WN7381.06010	2
1.46.204.2828.□	F E	1.34.10FM6	0.63.WN7381.06010	1
		1.34.10EM6	0.63.WN7381.06012	1
1.46.204.2828.□	E E	1.34.10EM6	0.63.WN7381.06012	2

Single parts: Angle connection sets 2828 T




Angle	Slot	Fastening elements		
		T-nut for subs. insertion	lens head screw	Pcs.
				
1.46.204.2828□	F F	1.32.4FM6	0.63.WN7381.06010	2
1.46.204.2828□	F E	1.32.4FM6	0.63.WN7381.06010	1
		1.32.4EM6	0.63.WN7381.06012	1
1.46.204.2828□	E E	1.32.4EM6	0.63.WN7381.06012	2

- 1 angle natural
 2 angle powder-coated




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

Single parts: Angle connection sets 4039

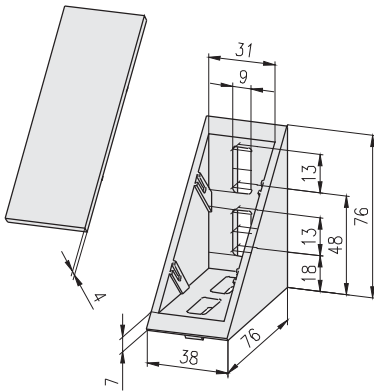
Angle	Slot	Fastening elements		
		T-screw	hexagon flange nut	Pcs.
				
1) 1.46.204.4039.□	F F	1.34.FM82	0.61.D06923.08	2
1.46.204.4039.□	F E	1.34.FM82 1.34.EM82	0.61.D06923.08 0.61.D06923.08	1 1
1.46.204.4039.□	E E	1.34.EM82	0.61.D06923.08	2

Single parts: Angle connection sets 4039 T

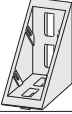

Angle	Slot	Fastening elements		
		T-nut for subs. insertion	lens head screw	Pcs.
				
1.46.204.4039□	F F	1.32.4FM8	0.63.WN7381.08012	2
1.46.204.4039□	F E	1.32.4FM8 1.32.4EM8	0.63.WN7381.08012 0.63.WN7381.08016	1 1
1.46.204.4039□	E E	1.32.4EM8	0.63.WN7381.08016	2



- 1 angle natural
 2 angle powder-coated

- 1) Connection with T-screw only without cover cap

38×76


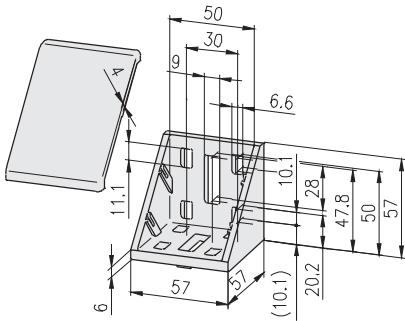
Description	Surface	Weight	Article-No.
Angle GD-Zn, 38×76	natural	273.0 g	1.46.204.3876.1
Angle GD-Zn, 38×76	powder-coated	273.0 g	1.46.204.3876.2
Cover cap for angle GD-Zn, 38×76		16.8 g	1.46.204.3876A
Angle connection set	3876 F/F	334.2 g	1.46.204.3876.□FF
Angle connection set	3876 F/E	342.2 g	1.46.204.3876.□FE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

Single parts: Angle connection sets 3876					
Angle	Slot	Fastening elements			
		T-screw		hexagon flange nut	Pcs.
1.46.204.3876.□	F F	1.34.FM82		0.61.D06923.08	4
1.46.204.3876.□	F E	1.34.FM82		0.61.D06923.08	2
		1.34.EM82		0.61.D06923.08	2
1.46.204.3876.□	E E	1.34.EM82		0.61.D06923.08	4






Single parts: Angle connection sets 3876 T					
Angle	Slot	Fastening elements			
		T-nut for subs. insertion		lens head screw	Pcs.
1.46.204.3876□	F F	1.32.4FM8		0.63.WN7381.08012	4
1.46.204.3876□	F E	1.32.4FM8		0.63.WN7381.08012	2
		1.32.4EM8		0.63.WN7381.08016	2
1.46.204.3876□	E E	1.32.4EM8		0.63.WN7381.08016	4




- 1 angle natural
 2 angle powder-coated

57x57

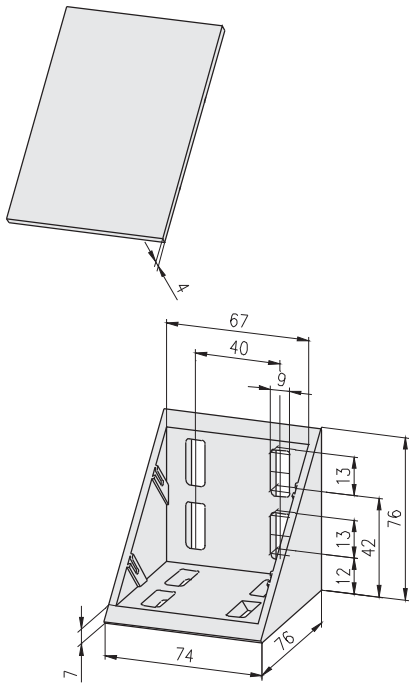


Description	Surface	Weight	Article-No.
Angle GD-Zn, 57x57	natural	226.3 g	1.46.204.5757.1
Angle GD-Zn, 57x57	powder-coated	226.3 g	1.46.204.5757.2
Cover cap for angle GD-Zn, 57x57		22.8 g	1.46.204.5757A
Angle connection set	5757 F/F	296.7 g	1.46.204.5757.□FF
Angle connection set	5757 F/E	280.8 g	1.46.204.5757.□FE
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

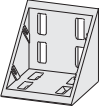


Single parts: Angle connection sets 5757						
Angle	Slot	Fastening elements				
	F	T-slot nut		lens head screw		Pcs.
	E	T-screw		hexagon flange nut		
1.46.204.5757.□	F	F	1.34.10FM6	0.63.WN7381.06012	8	
1.46.204.5757.□	F	F	1.34.10FM6	0.63.WN7381.06012	4	
		E	1.34.EM82	0.61.D06923.08	1	
1.46.204.5757.□	E	E	1.34.EM82	0.61.D06923.08	2	

Single parts: Angle connection sets 5757 T					
Angle	Slot	Fastening elements			
			T-nut for subs. insertion	lens head screw	Pcs.
					
1.46.204.5757□	F	F	1.32.4FM6	0.63.WN7381.06012	8
1.46.204.5757□	F	F	1.32.4FM6	0.63.WN7381.06012	4
		E	1.32.4EM8	0.63.WN7381.08016	1
1.46.204.5757□	E	E	1.32.4EM8	0.63.WN7381.08016	2

-
- 1 angle natural
- 2 angle powder-coated

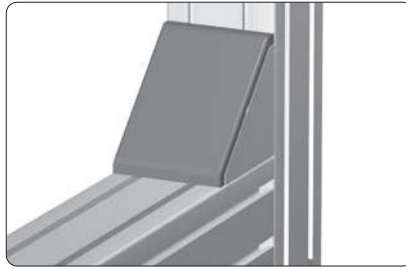
74x76


Description	Surface	Weight	Article-No.
Angle GD-Zn, 74x76	natural	434.5 g	1.46.204.7476.1
Angle GD-Zn, 74x76	powder-coated	434.5 g	1.46.204.7476.2
Cover cap for angle GD-Zn, 74x76		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 set 7476				
Angle	Slot	Fastening elements		Pcs.
		T-screw 	hexagon flange nut 	
1.46.204.7476.□	E E	1.34.EM82	0.61.D06923.08	8

- 1 angle natural
 2 angle powder-coated

Angles GD-AI



Application

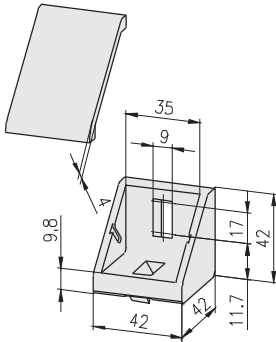
For supporting profiles and mounting various machine components

Technical data

material:

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

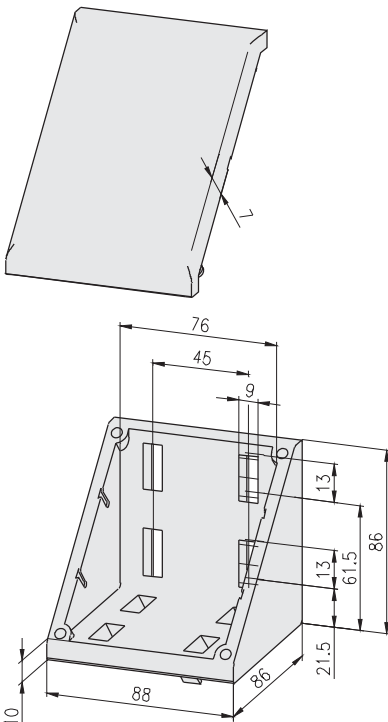
42×42



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			Pcs.
		T-screw		hexagon flange nut	
1.46.204.4242.1AL	E E	1.34.EM82		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			Pcs.
		T-screw		hexagon flange nut	
1.46.204.8886.1AL	E E	1.34.EM82		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

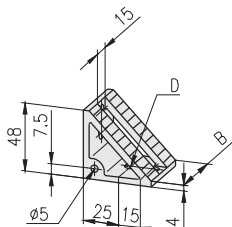
Technical data

material: aluminium
 strength: F22
 surface: natural anodised

Comments

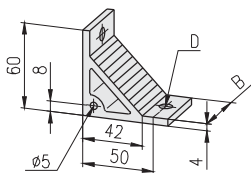
Angles Alu are made from the angle profiles
 ↗ 1.19.141...

48×48



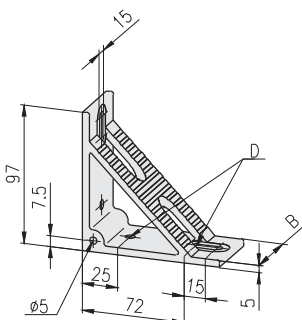
Description	D	B	Weight	Article-No.
Angle 48×48	Ø6.6	30	40 g	1.46.20536
Angle 48×48	Ø9.0	30	38 g	1.46.20539
Angle 48×48	Ø6.6	45	66 g	1.46.20546
Angle 48×48	Ø9.0	45	64 g	1.46.20549

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

100×100



Description	D	B	Weight	Article-No.
Angle 100×100	Ø6.6	30	95 g	1.46.21036
Angle 100×100	Ø9.0	30	93 g	1.46.21039
Angle 100×100	Ø6.6	45	155 g	1.46.21046
Angle 100×100	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

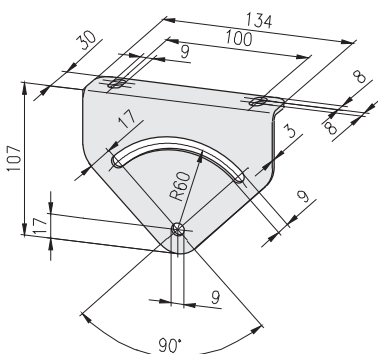
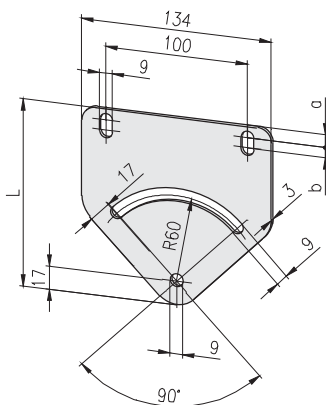
Technical data

Design alu:

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

Design steel:

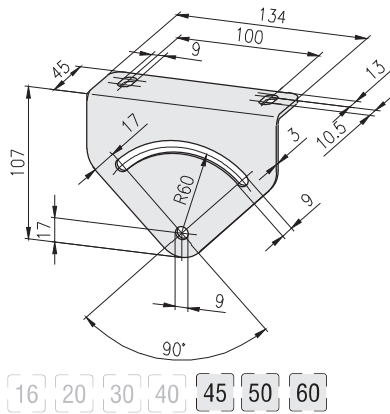
- material: steel
- surface: galvanised



Description	L	Design	a	b	Weight	Article-No.
Swivel angle	131	alu	8	8.0	105 g	1.46.3012900.AL
Swivel angle	146	alu	13	10.5	116 g	1.46.3014400.AL
Swivel angle	131	steel	8	8.0	320 g	1.46.3012900.ST
Swivel angle	146	steel	13	10.5	360 g	1.46.3014400.ST

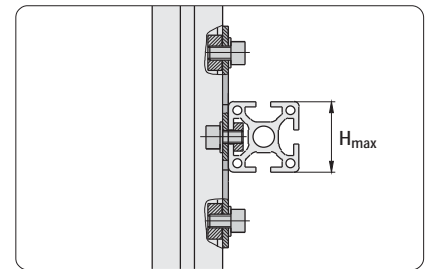
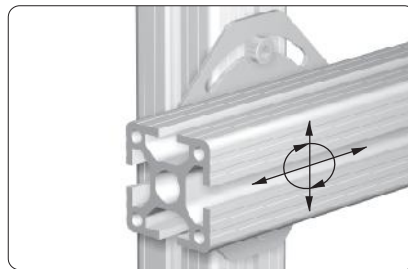
- 16 20 30 40 45 50 60

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

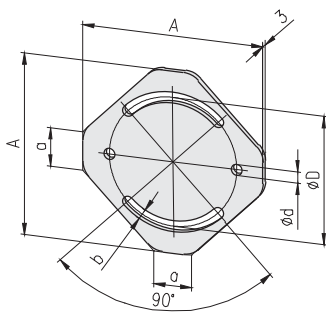


Application

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

Application

Base and transporting plate for profiles without centric core hole



Fastening of castors



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

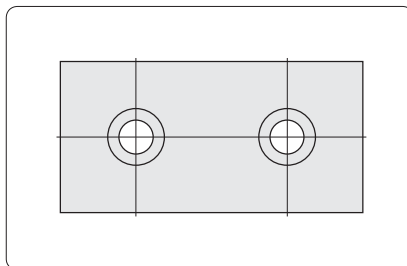
Accessories

- threaded insert
- cap-screw DIN 912

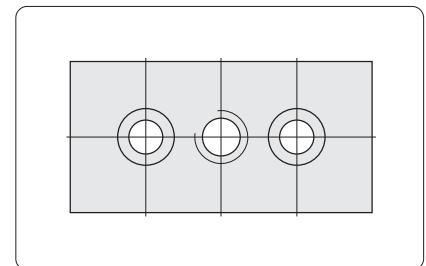
Comments

Counterbore DIN 74 for cap-screw DIN 912

Variants



without thread

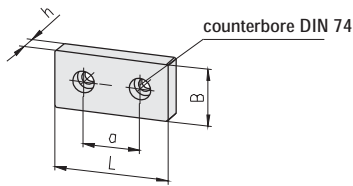


with thread

Dimensions	without thread			with thread M14		
	B×L	Design	h	Article-No.	Design	h
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
60×90	Alu	15	1.47.2060090.0800.1	Alu	15	1.47.2060090
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

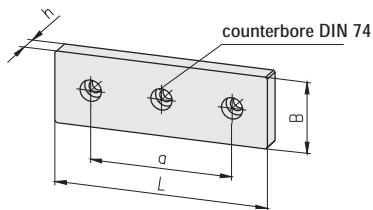
Base plates

without thread



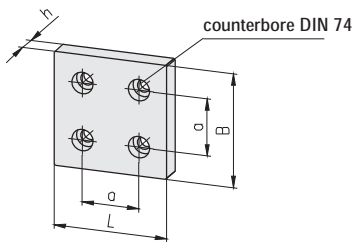
16 20 30 40 45 50 60

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
Base plate w/o thread	60×90	Alu	- Km8	15	45	202 g	1.47.2060090.0800.1



16 20 30 40 45 50 60

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

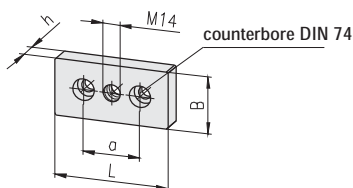


16 20 30 40 45 50 60

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

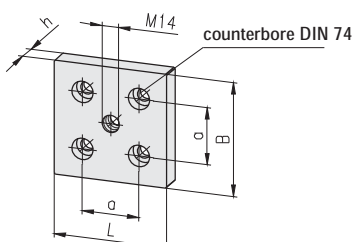
Base plates

with thread



16 20 30 40 45 50 60

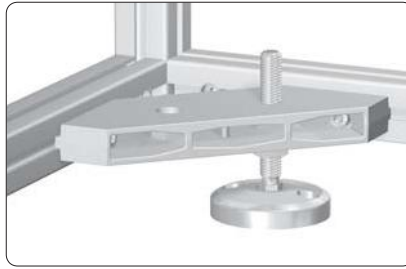
Description	B×L	Design		h	a	Weight	Article-No.
Base plate	30×60	GD-Zn	M14 M6	12	30	104.2 g	1.47.20306
Base plate	40×80	GD-Zn	M14 M8	16	40	205.2 g	1.47.20408
Base plate	45×90	GD-Zn	M14 M8	16	45	256.5 g	1.47.2045090
Base plate	50×100	GD-Zn	M14 M8	16	50	316.8 g	1.47.20510
Base plate	60×90	Alu	M14 M8	15	45	197.1 g	1.47.2060090



16 20 30 40 45 50 60

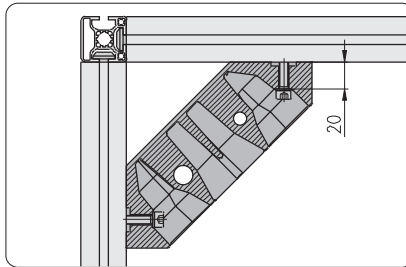
Description	B×L	Design		h	a	Weight	Article-No.
Base plate	60×60	GD-Zn	M14 M8	12	30	158.4 g	1.47.2060060
Base plate	80×80	GD-Zn	M14 M8	16	40	434.3 g	1.47.20808
Base plate	90×90	GD-Zn	M14 M8	16	45	520.7 g	1.47.2090090
Base plate	100×100	GD-Zn	M14 M8	16	50	601.0 g	1.47.21010

Floor mounting plate



Application

For fastening and manual levelling of profile racks and frames

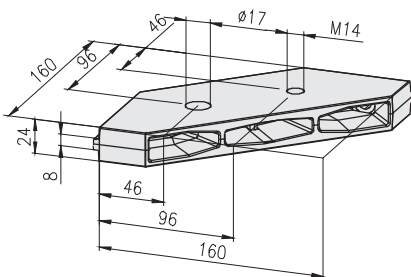


Technical data

material: aluminium
 surface: natural or 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

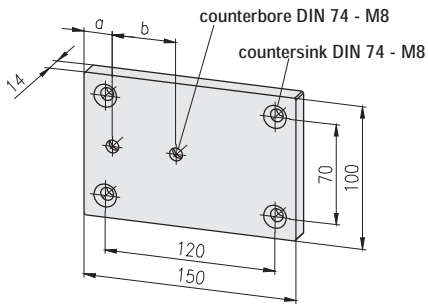
Description	Weight	Article-No.
Floor mounting plate, natural	622 g	1.47.225160.1
Floor mounting plate, black powder-coated	622 g	1.47.225160.2

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

- 16
- 20
- 30
- 40
- 45
- 50
- 60

Description

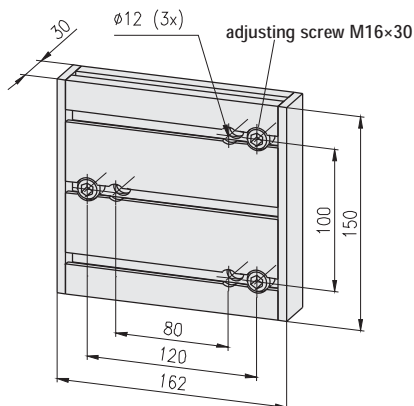
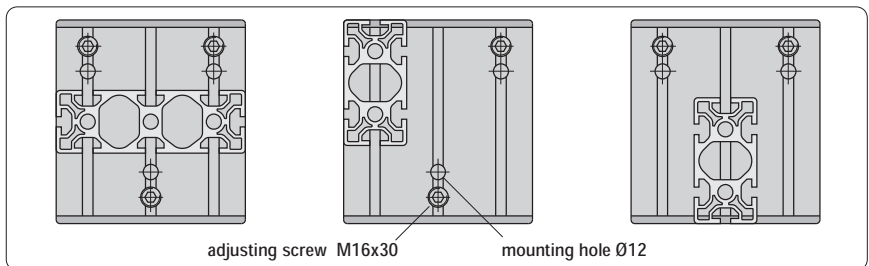
	a	b	Weight	Article-No.
Mounting plate for profile 30x60	15	30	450 g	1.47.30306
Mounting plate for profile 40x80	20	40	450 g	1.47.30408
Mounting plate for profile 50x100	25	50	450 g	1.47.30510

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 30x150x150
- 2 cover caps
- 3 set screws M16x30

- 16
- 20
- 30
- 40
- 45
- 50
- 60

Description

	Weight	Article-No.
Floor plate 30x150x150	1,100 g	1.47.40315

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

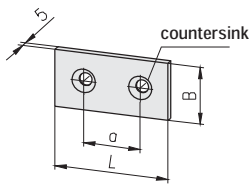
- for subsequent or additional connection of profiles
- for fastening of accessories

Technical data

material: aluminium
 strength: F22
 surface: natural anodised

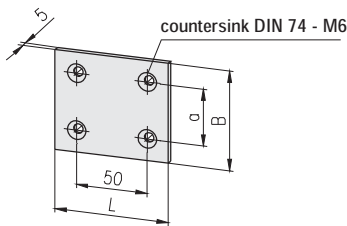
Comments

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



- 16 20 30 40 45 50 60

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



- 16 20 30 40 45 50 60

Comments

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

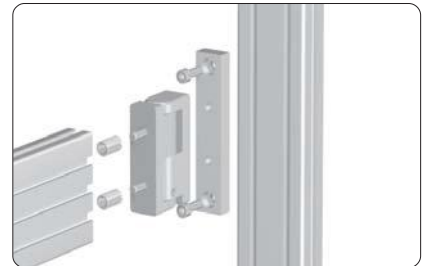
Description	B×L	a	Weight	Article-No.
Connection plate	50×80	30	50 g	1.47.50508
Connection plate	70×80	40	69 g	1.47.50708
Connection plate	75×80	45	76 g	1.47.50758
Connection plate	80×80	50	81 g	1.47.50808

**Fastening plate
30x150**



Fastening of profile 30x100

Fastening of profile 30x100 with joint 30x100



Application

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

- for profile 30x100
- for joint 30x100

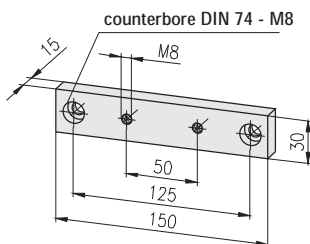
Technical data

material: aluminium
strength: F22
surface: natural anodised

max. bend-load: $M_b = F \times L$	
vertical profiles	M_b
30x30	750 Nm
40x40	1,000 Nm
50x50	1,500 Nm

Comments

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



- 16 20 **30** 40 45 50 60

Description

Fastening plate 30x150

Weight

228 g

Article-No.

1.47.60315

Eye-bolt



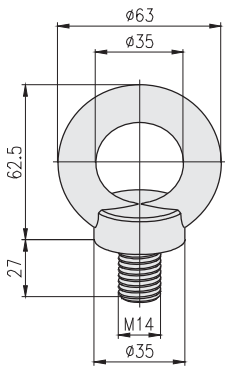
Mounting directly in the profile (core hole)



Mounting with base plates

Application

Eye-bolts for the transfer of frames and complete equipment



Technical data

material: C 15

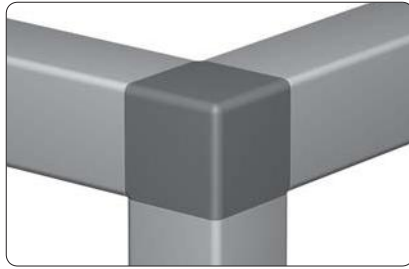
max. load ¹⁾:

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

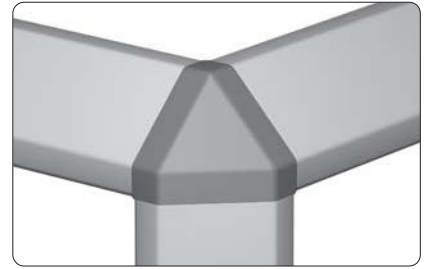
¹⁾ The max. load given is valid only if the eye-bolt face is tightened firmly

Description	Weight	Article-No.
Eye-bolt M14	193 g	1.47.96314

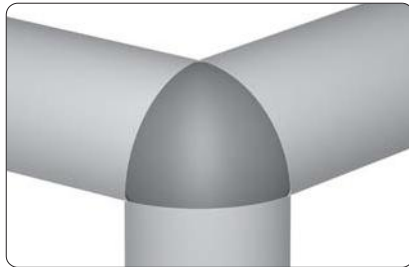
Corner pieces



Corner piece set cubic PA: For the connection of three profiles 40x40



Corner piece set 45° PA: For the connection of three profiles 40x40, 2E, 45°, LP



Corner piece set spherical PA: For the connection of three profiles 40x40, soft

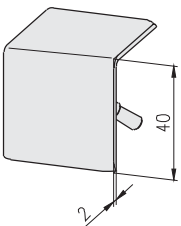
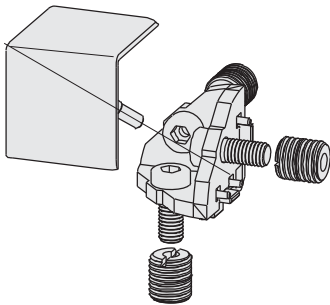
Technical data

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

Delivery unit (set)

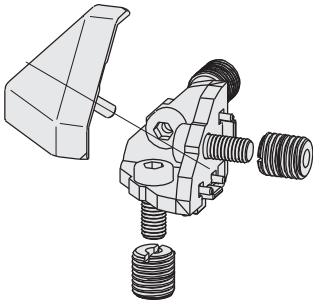
- Corner piece angle
- Corner piece cover cap
- Threaded insert M14/M8 (3 pcs)
- Cap head screw (3 pcs)

Cubic



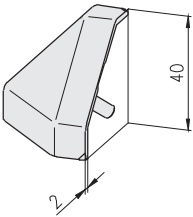
Description	Weight	Article-No.
Corner piece set cubic PA	136.0 g	1.48.14410

Description	Weight	Article-No.
Corner piece cover cap, cubic PA	15.5 g	1.48.14412

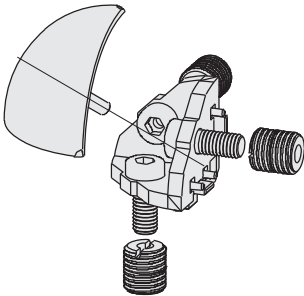
45°


16 20 30 **40** 45 50 60

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

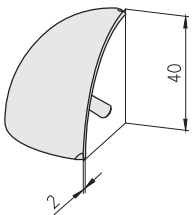


Description	Weight	Article-No.
Corner piece cover cap, 45° PA	7.5 g	1.48.14442

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



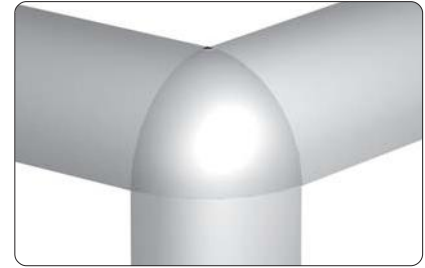
Corner pieces cubic:
Corner piece for the connection of 3 square profiles



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



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



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

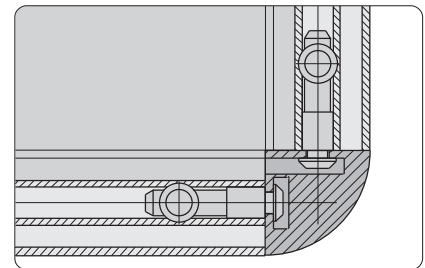
Technical data

- material: aluminium
 strength: F22
 surface:
- design anodised: natural anodised
 - design black: black powder-coated

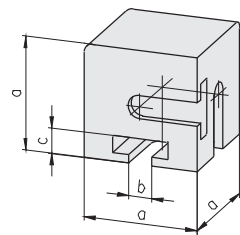
General

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

Connection with corner pieces

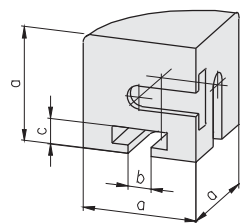


Connection of profiles with one corner piece using the standard connector

Corner pieces cubic


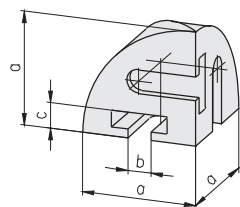
16 20 30 40 45 50 60

Description	a	Slot	b	c	Weight	Article-No.
Corner piece cubic 20, anodised	20	H	6.2	4.6	17 g	1.48.221
Corner piece cubic 30, anodised	30	F	8.2	6.2	59 g	1.48.331
Corner piece cubic 40, anodised	40	E3	8.2	9.0	135 g	1.48.441
Corner piece cubic 50, anodised	50	E4	8.2	10.0	292 g	1.48.551
Corner piece cubic 20, black	20	H	6.2	4.6	17 g	1.48.221.2
Corner piece cubic 30, black	30	F	8.2	6.2	59 g	1.48.331.2
Corner piece cubic 40, black	40	E3	8.2	9.0	135 g	1.48.441.2
Corner piece cubic 50, black	50	E4	8.2	10.0	292 g	1.48.551.2

Corner pieces segment


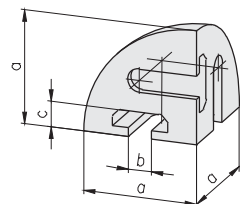
16 20 30 40 45 50 60

Description	a	Slot	b	c	Weight	Article-No.
Corner piece segment 20, anodised	20	H	6.2	4.6	12 g	1.48.222
Corner piece segment 30, anodised	30	F	8.2	6.2	43 g	1.48.332
Corner piece segment 40, anodised	40	E3	8.2	9.0	100 g	1.48.442
Corner piece segment 50, anodised	50	E4	8.2	10.0	222 g	1.48.552
Corner piece segment 20, black	20	H	6.2	4.6	12 g	1.48.222.2
Corner piece segment 30, black	30	F	8.2	6.2	43 g	1.48.332.2
Corner piece segment 40, black	40	E3	8.2	9.0	100 g	1.48.442.2
Corner piece segment 50, black	50	E4	8.2	10.0	222 g	1.48.552.2

Corner pieces segment, 2gang


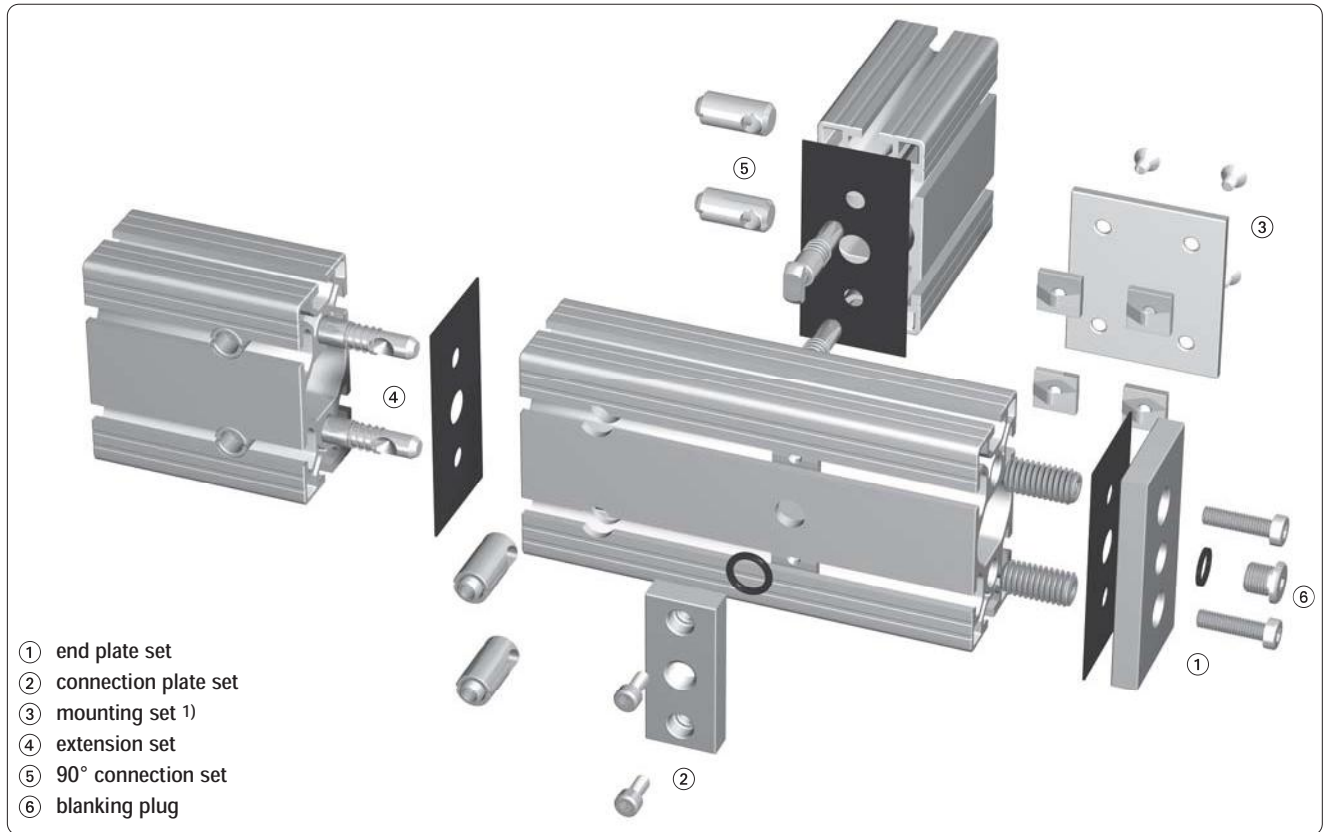
16 20 30 40 45 50 60

Description	a	Slot	b	c	Weight	Article-No.
Corner piece segment, 2gang 20, anodised	20	H	6.2	4.6	7 g	1.48.223
Corner piece segment, 2gang 30, anodised	30	F	8.2	6.2	24 g	1.48.333
Corner piece segment, 2gang 40, anodised	40	E3	8.2	9.0	57 g	1.48.443
Corner piece segment, 2gang 50, anodised	50	E4	8.2	10.0	135 g	1.48.553
Corner piece segment, 2gang 20, black	20	H	6.2	4.6	7 g	1.48.223.2
Corner piece segment, 2gang 30, black	30	F	8.2	6.2	24 g	1.48.333.2
Corner piece segment, 2gang 40, black	40	E3	8.2	9.0	57 g	1.48.443.2
Corner piece segment, 2gang 50, black	50	E4	8.2	10.0	135 g	1.48.553.2

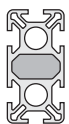
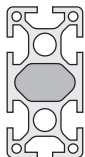
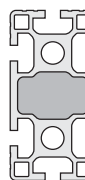

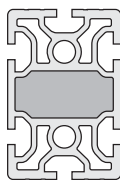
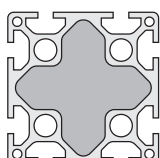
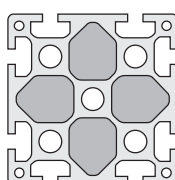
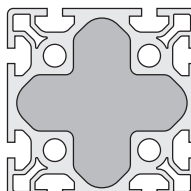
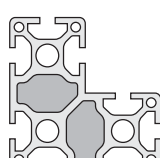
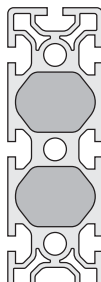
Corner pieces sphere


16 20 30 40 45 50 60

Description	a	Slot	b	c	Weight	Article-No.
Corner piece sphere 20, anodised	20	H	6.2	4.6	7 g	1.48.228
Corner piece sphere 30, anodised	30	F	8.2	6.2	24 g	1.48.338
Corner piece sphere 40, anodised	40	E3	8.2	9.0	57 g	1.48.448
Corner piece sphere 50, anodised	50	E4	8.2	10.0	135 g	1.48.558
Corner piece sphere 20, black	20	H	6.2	4.6	7 g	1.48.228.2
Corner piece sphere 30, black	30	F	8.2	6.2	24 g	1.48.338.2
Corner piece sphere 40, black	40	E3	8.2	9.0	57 g	1.48.448.2
Corner piece sphere 50, black	50	E4	8.2	10.0	135 g	1.48.558.2



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

Profiles for pneumatic applications				
PG 30	PG 40	PG 45	PG 50	PG 60
 <p>Profile 30×60, 6F (pneumatic) cross-sectional area: 1) 299.8 mm²</p>	 <p>Profile 40×80, 6E 1) 521.8 mm²</p>	 <p>Profile 45×90, 6E 1) 816.2 mm²</p>	 <p>Profile 50×100, 6E 1) 1,043.3 mm²</p>	 <p>Profile 60×90, 6E 1) 1,203.0 mm²</p>
	 <p>Profile 80×80, 8E 1) 2,454.1 mm²</p>	 <p>Profile 90×90, 8E 1) 635.2 mm² (4×)</p>	 <p>Profile 100×100, 8E 1) 4,080.4 mm²</p>	<p>Comments Any profile with closed interior chambers can also be used as pressure line max. pressure: 10 bar</p>
	 <p>Profile 80×80, 8E, angle 1) 505.7 mm² (2×)</p>		 <p>Profile 50×150, 8E 1) 1,115.8 mm² (2×)</p>	

Pneumatic end plates



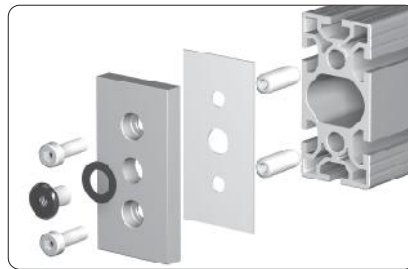
Application

- 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

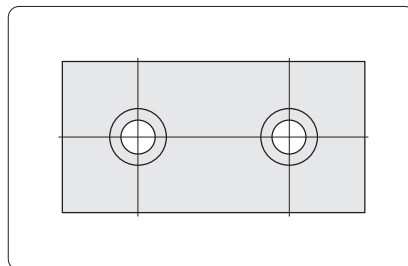
Seal

- material: NBR

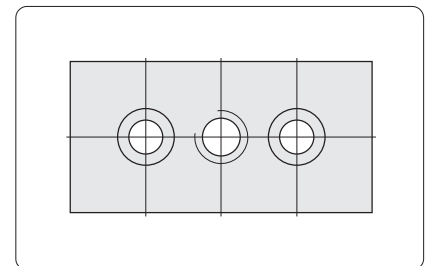
Comments

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

Variants

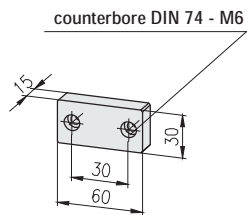


without thread

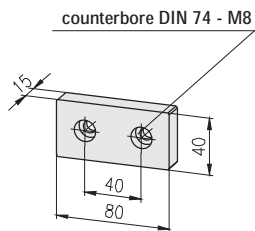


with thread

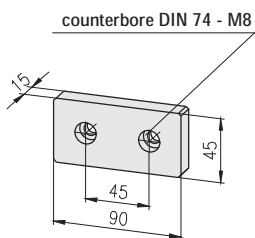
Dimensions	without thread	with thread G1/4"	with thread G1/2"
B×L	Article-No.	Article-No.	Article-No.
30×60	1.47.2030060.0600.1	1.51.13061	
40×80	1.47.2040080.0800.1		1.51.1481
45×90	1.47.2045090.0800.1		1.51.14591
50×100	1.47.2050100.0800.1		1.51.15101
50×150	1.47.2050150.0800.1		1.51.15151
60×90	1.47.2060090.0800.1		1.51.16091
80×80 Winkel	1.47.2080080W.0800.1		
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


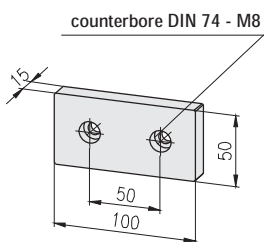
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 30×60	121 g	1.47.2030060.0600.0
Single parts		
	Pcs.	
Base plate w/o thread 30×60	1 64 g	1.47.2030060.0600.1
Pneumatic seal 30×60	1 3 g	1.51.13062
Threaded insert M14/M6	2 22 g	1.35.1140615
Cap-screw DIN 912 - M6×16	2 5 g	0.63.D00912.06016

40×80


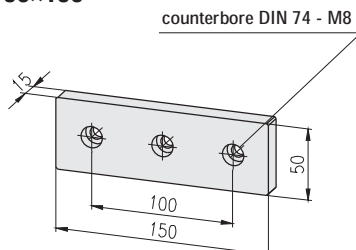
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 40×80	173 g	1.47.2040080.0800.0
Single parts		
	Pcs.	
Base plate w/o thread 40×80	1 114 g	1.47.2040080.0800.1
Pneumatic seal 40×80	1 5 g	1.51.14082
Threaded insert M14/M8	2 18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	2 9 g	0.63.D00912.08016

45×90


Description	Weight	Article-No.
Pneumatic end plate set w/o thread 45×90	208 g	1.47.2045090.0800.0
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


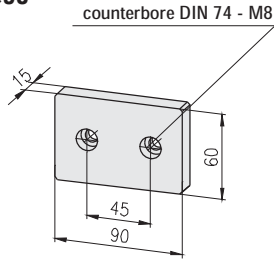
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 50×100	247 g	1.47.2050100.0800.0
Single parts		
	Pcs.	
Base plate w/o thread 50×100	1 186 g	1.47.2050100.0800.1
Pneumatic seal 50×100	1 7 g	1.51.15102
Threaded insert M14/M8	2 18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	2 9 g	0.63.D00912.08016

50×150


Description	Weight	Article-No.
Pneumatic end plate set w/o thread 50×150	371 g	1.47.2050150.0800.0
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

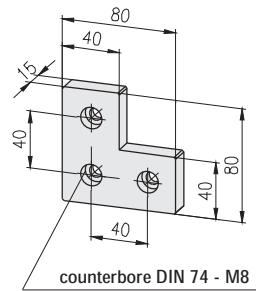
Pneumatic end plate sets
without thread

60×90



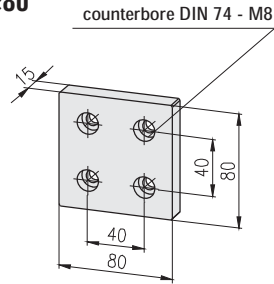
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 60×90	263 g	1.47.2060090.0800.0
Single parts		
	Pcs.	
Base plate w/o thread 60×90	1 202 g	1.47.2060090.0800.1
Pneumatic seal 60×90	1 7 g	1.51.16092
Threaded insert M14/M8	2 18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	2 9 g	0.63.D00912.08016

80×80 angle



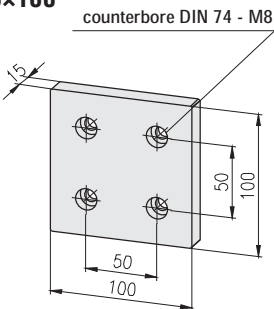
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 80×80 W	260 g	1.47.2080080W.0800.0
Single parts		
	Pcs.	
Base plate w/o thread 80×80 W	1 171 g	1.47.2080080W.0800.1
Pneumatic seal 80×80 W	1 8 g	1.51.18082W
Threaded insert M14/M8	3 18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	3 9 g	0.63.D00912.08016

80×80

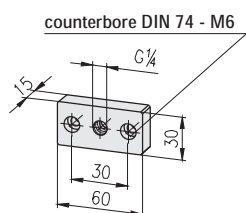


Description	Weight	Article-No.
Pneumatic end plate set w/o thread 80×80	343 g	1.47.2080080.0800.0
Single parts		
	Pcs.	
Base plate w/o thread 80×80	1 228 g	1.47.2080080.0800.1
Pneumatic seal 80×80	1 7 g	1.51.18082
Threaded insert M14/M8	4 18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	4 9 g	0.63.D00912.08016

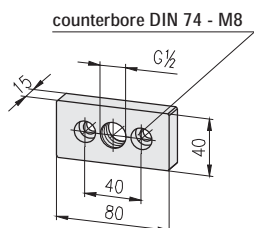
100×100



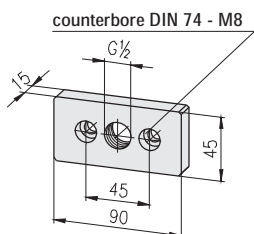
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 100×100	494 g	1.47.2100100.0800.0
Single parts		
	Pcs.	
Base plate w/o thread 100×100	1 374 g	1.47.2100100.0800.1
Pneumatic seal 100×100	1 12 g	1.51.20102
Threaded insert M14/M8	4 18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	4 9 g	0.63.D00912.08016

**Pneumatic end plate sets
with thread**
30×60


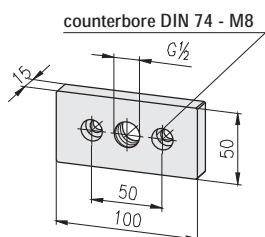
Description	Weight	Article-No.
Pneumatic end plate set 30×60	110 g	1.51.13060
Single parts		
	Pcs.	
Pneumatic end plate 30×60	1	53 g 1.51.13061
Pneumatic seal 30×60	1	3 g 1.51.13062
Threaded insert M14/M6	2	22 g 1.35.1140615
Cap-screw DIN 912 - M6×16	2	5 g 0.63.D00912.06016

40×80


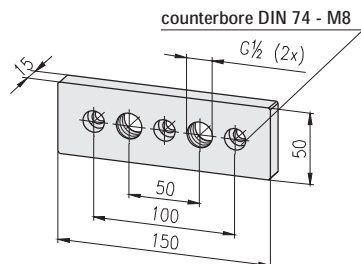
Description	Weight	Article-No.
Pneumatic end plate set 40×80	153 g	1.51.14080
Single parts		
	Pcs.	
Pneumatic end plate 40×80	1	94 g 1.51.14081
Pneumatic seal 40×80	1	5 g 1.51.14082
Threaded insert M14/M8	2	18 g 1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g 0.63.D00912.08016

45×90


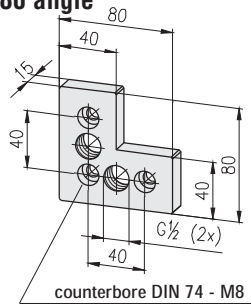
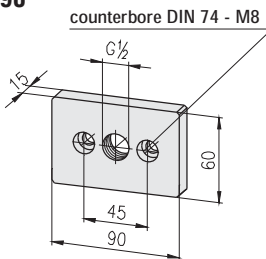
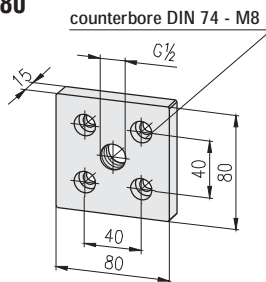
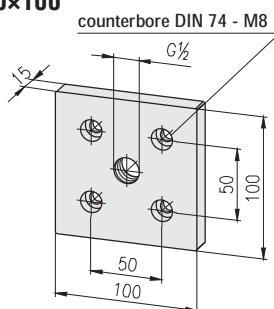
Description	Weight	Article-No.
Pneumatic end plate set 45×90	179 g	1.51.14590
Single parts		
	Pcs.	
Pneumatic end plate 45×90	1	119 g 1.51.14591
Pneumatic seal 45×90	1	6 g 1.51.14592
Threaded insert M14/M8	2	18 g 1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g 0.63.D00912.08016

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

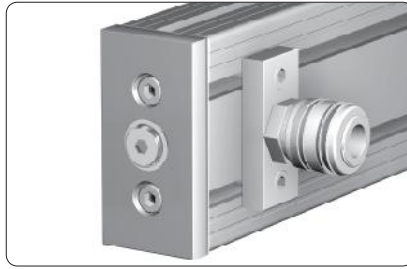
**Pneumatic end plate sets
with thread**
80×80 angle

60×90

80×80

100×100


Description	Weight	Article-No.
Pneumatic end plate set 80×80 W	271 g	1.51.18080W
Single parts		
	Pcs.	
Pneumatic end plate 80×80 W	1 182 g	1.51.18081W
Pneumatic seal 80×80 W	1 8 g	1.51.18082W
Threaded insert M14/M8	3 18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	3 9 g	0.63.D00912.08016

Description	Weight	Article-No.
Pneumatic end plate set 60×90	217 g	1.51.16090
Single parts		
	Pcs.	
Pneumatic end plate 60×90	1 156 g	1.51.16091
Pneumatic seal 60×90	1 7 g	1.51.16092
Threaded insert M14/M8	2 18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	2 9 g	0.63.D00912.08016

Description	Weight	Article-No.
Pneumatic end plate set 80×80	251 g	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

Description	Weight	Article-No.
Pneumatic end plate set 100×100	416 g	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

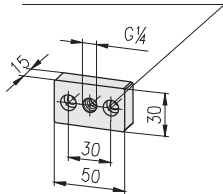
- material: NBR

Comments

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

30×60

counterbore DIN 74 - M6


Description

Pneumatic connection plate set 30×60

Weight

59.2 g

Article-No.

1.52.03061

Single parts
Pcs.

Pneumatic connection plate 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

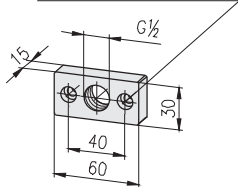
2

5.0 g

0.63.D00912.06012

40×80

counterbore DIN 74 - M6


Description

Pneumatic connection plate set 40×80

Weight

80.6 g

Article-No.

1.52.14081

Single parts
Pcs.

Pneumatic connection plate 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

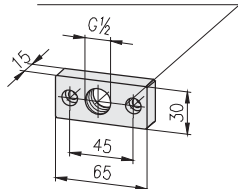
2

5.0 g

0.63.D00912.06016

45×90

counterbore DIN 74 - M6


Description

Pneumatic connection plate set 45×90

Weight

84.6 g

Article-No.

1.52.04591

Single parts
Pcs.

Pneumatic connection plate 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

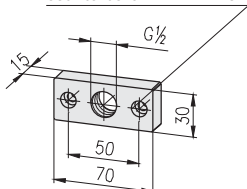
2

5.0 g

0.63.D00912.06016

50×100

counterbore DIN 74 - M6


Description

Pneumatic connection plate set 50×100

Weight

90.6 g

Article-No.

1.52.15101

Single parts
Pcs.

Pneumatic connection plate 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

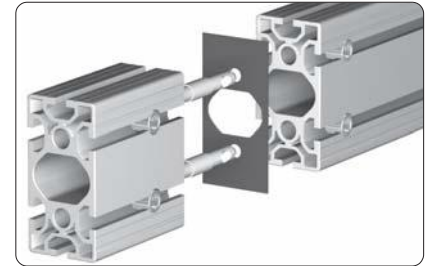
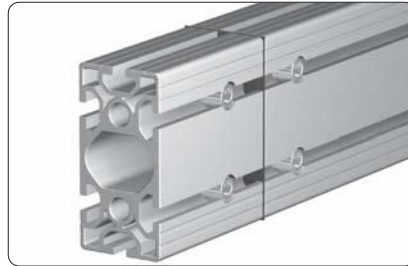
Cap-screw DIN 912 - M6×16

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

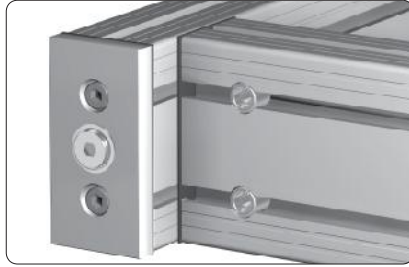
for profile 80×80

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

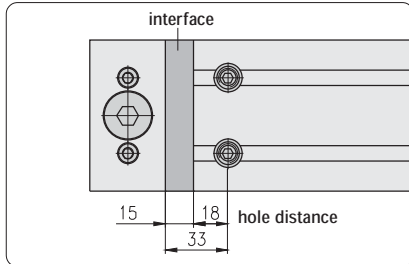
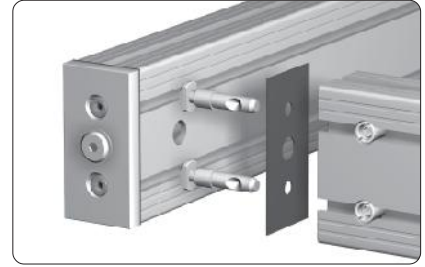
for profile 100×100

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

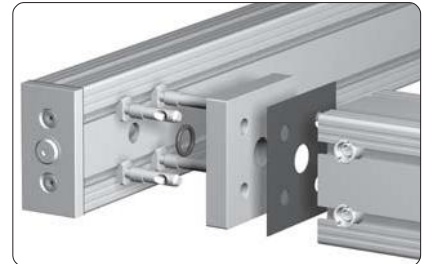
Pneumatic 90° connection sets



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

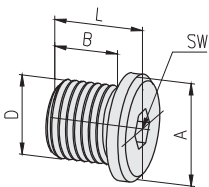
Blanking plug for the connection thread



Application

Reducing nipple to reduce the connection thread

Blanking plug



Technical data

material:

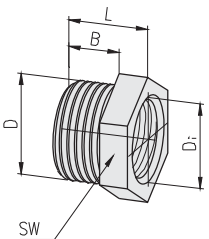
- blanking plug: steel, galvanised
- sealing: NBR

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



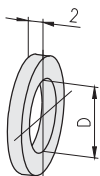
Technical data

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

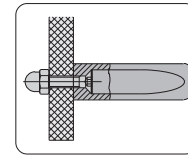
Description	D	Weight	Article-No.
Sealing ring Ø1/4"		1 g	1.59.03030
Sealing ring Ø3/8"		1 g	1.59.03040
Sealing ring Ø1/2"		2 g	1.59.03050

Handles light PA

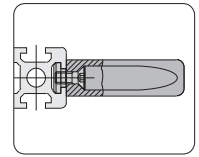


Application

For doors and drawers of light material



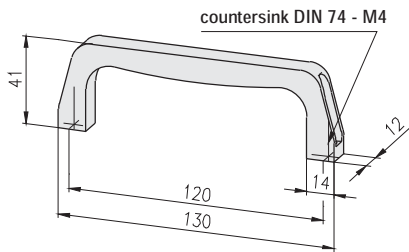
Mounting on panel elements



Mounting on profiles

Technical data

material: PA



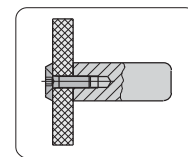
Description	Colour	Weight	Article-No.
Handle light PA	grey	30 g	1.61.20.1
Handle light PA	black	30 g	1.61.20.2

Handle light Alu

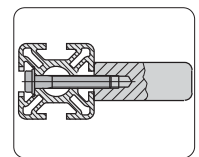


Application

For doors and drawers of light material



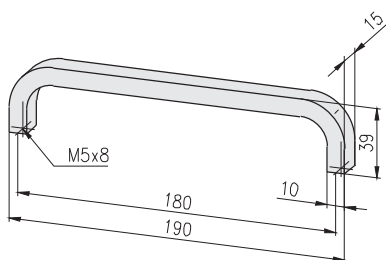
Mounting on panel elements



Mounting on profiles

Technical data

material: aluminium
surface: natural anodised



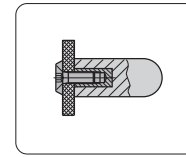
Description	Weight	Article-No.
Handle light Alu	85 g	1.61.210

Handle PA

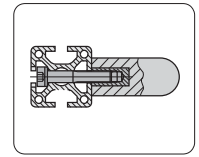


Application

Ergonomical designed handle



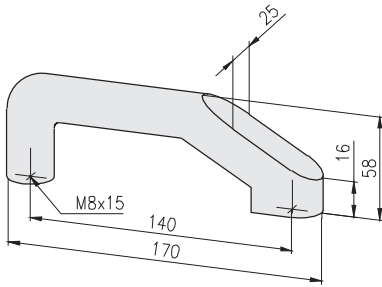
Mounting on panel elements



Mounting on profiles

Technical data

material: PA
colour: black



Description

Handle PA, with thread M8

Weight

166 g

Article-No.

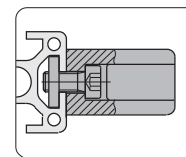
1.61.230

Handles PA

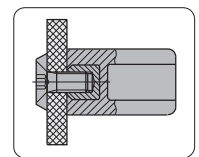


Application

Handle with fixing possibilities from the front and the rear



Handle with bore

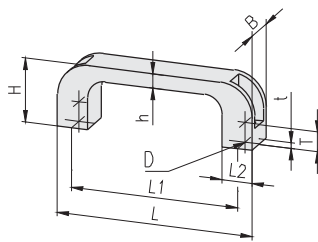


Handle with thread

Technical data

material: PA
colour: black

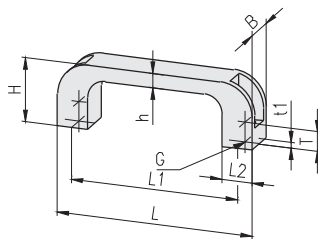
with bore



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

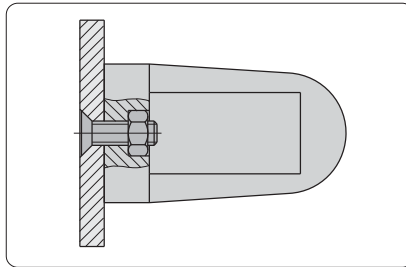
L	L1	L2	H	h	T	t	t1	B
110	94	17	37	8	13	6	10	21
139	120	20	40	10	15	6	10	24
151	132	22	43	10	16	6	15	26
200	180	25	50	11	20	9	15	28
260	235	28	53	12	21	11	15	32

**Handle system
round design**

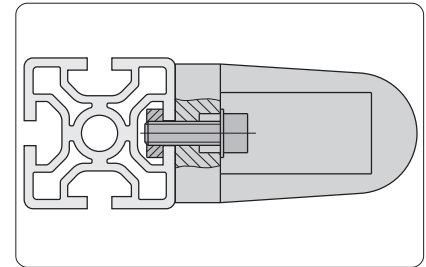


Application

Handle system for making handles of any length

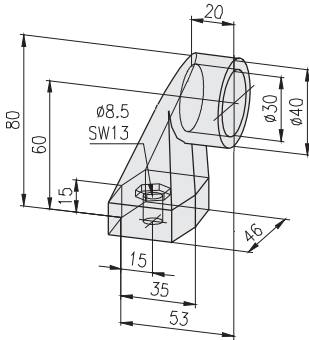


Mounting on panel elements



Mounting on profiles

Corner piece PA-GF

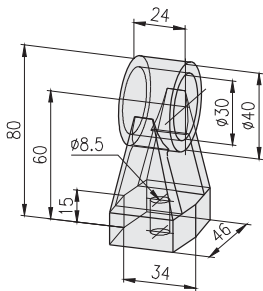


Technical data

material: PA-GF
colour: black

Description	Weight	Article-No.
Corner piece PA-GF	76 g	1.61.280

Centre piece PA-GF

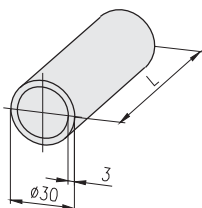


Technical data

material: PA-GF
colour: black

Description	Weight	Article-No.
Centre piece PA-GF	53 g	1.61.281

Tube Ø30×3



Technical data

material: aluminium
surface: natural anodised
tube length: 6 m

Description	Weight	Article-No.
Tube Ø30×3	bar 4.2 kg	1.19.16130.60
Tube Ø30×3	cut to length 0.7 kg/m	1.19.16130-A00A00/...

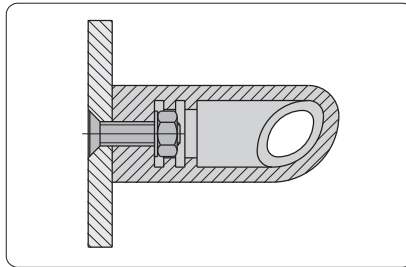
/... = length in mm

**Handle system
oval design**

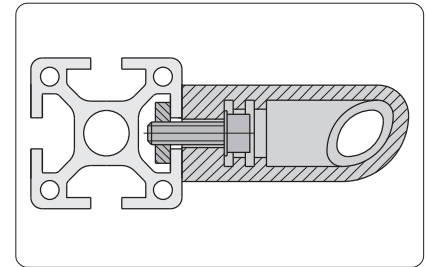


Application

Handle system for making handles of any length

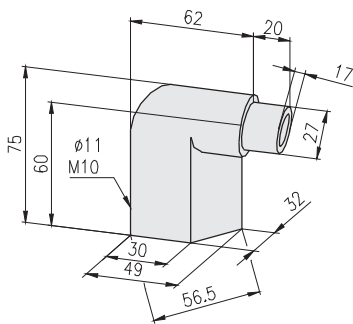


Mounting on panel elements



Mounting on profiles

Oval corner piece right



Technical data

material: PA-GF
colour: black

Description

Oval corner piece right

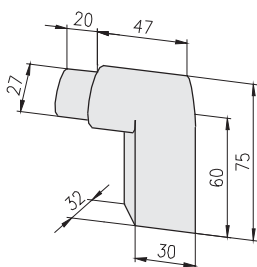
Weight

65 g

Article-No.

1.61.290

Oval corner piece left



Technical data

material: PA-GF
colour: black

Description

Oval corner piece left

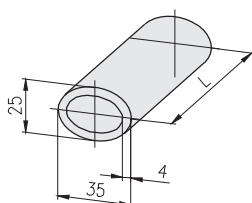
Weight

65 g

Article-No.

1.61.291

Oval tube 35x4



Technical data

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

Description

Oval tube 35x4

bar 2.5 kg

Article-No. 1.61.292.30



Oval tube 35x4

cut to length 0.83 kg/m

Article-No. 1.61.292-A00A00/...

/... = length in mm

Grab handles



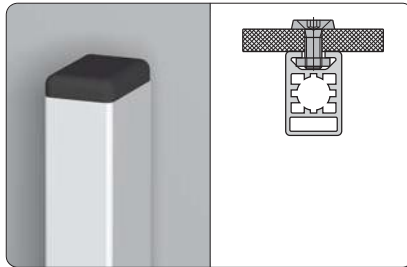
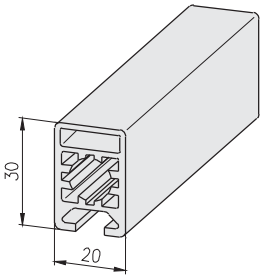
Application

Alu grip handles for customer's assembly from standard profiles

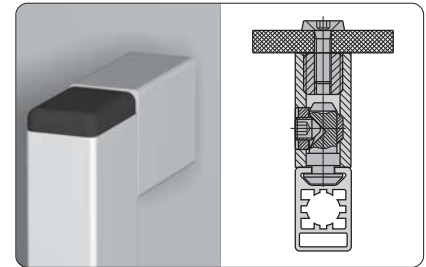
Comments

Grab handles increase the rigidity of panels without profile frames

Profile 20x30, 1F, LP



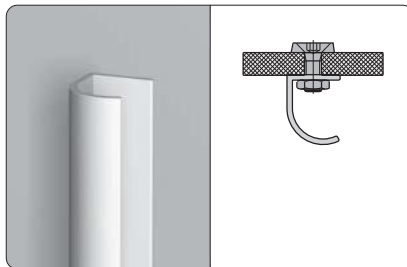
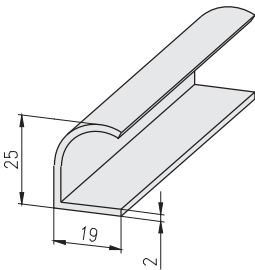
Fixing of the profile directly on the panel element



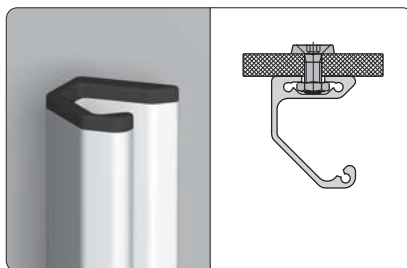
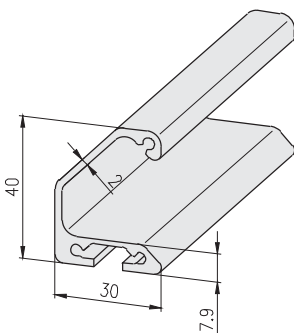
Fixing of the profile with a connecting piece on the panel element

Description	Weight	Article-No.
Profile 20x30, 1F, LP cut to length	0.66 kg/m	1.11.020030.14LP-A00A00/... /... = length in mm

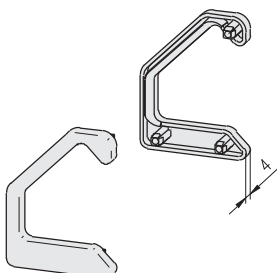
Grab handle profiles



Description	Weight	Article-No.
Grab handle profile cut to length	0.3 kg/m	1.19.14319-A00A00/... /... = length in mm



Description	Weight	Article-No.
Grab handle profile cut to length	0.73 kg/m	1.19.14330-A00A00/... /... = length in mm



Technical data
material: PA-GF
colour: black

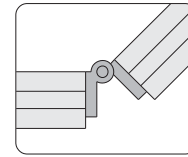
Description	Weight	Article-No.
Cover cap kit left/right for grab handle profile	3.6 g	1.19.14330A

Hinges

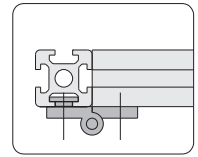


Application

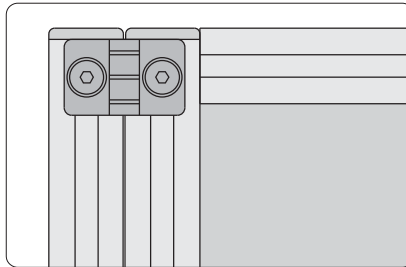
Hinge for doors and flaps of light material



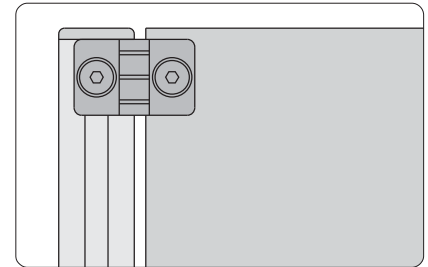
Face-sided connection of 2 profiles



Connection of 2 profiles in rectangular position

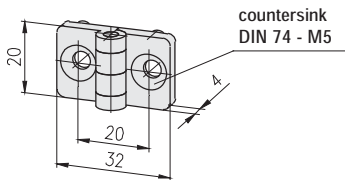


Doors with profile frames

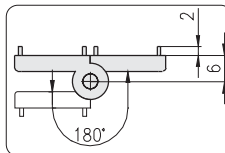


Doors made of panel elements without profile frames

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



- 16
- 20
- 30
- 45
- 50
- 60

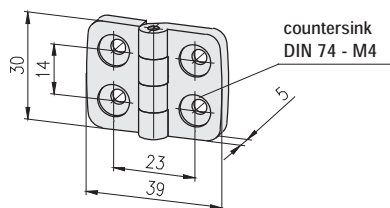


Swivel angle

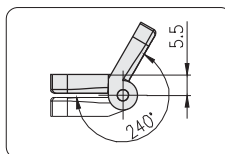
Comments

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

Description	Weight	Article-No.
Hinge 20×32	6 g	1.62.12032



- 16
- 20
- 30
- 45
- 50
- 60

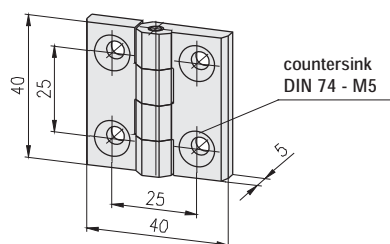


Swivel angle

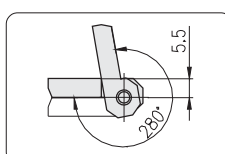
Comments

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

Description	Weight	Article-No.
Hinge 30×39	7.6 g	1.62.23039



- 16
- 20
- 30
- 45
- 50
- 60



Swivel angle

Comments

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

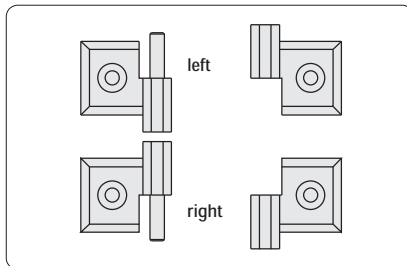
Description	Weight	Article-No.
Hinge 40×40	55 g	1.62.24040

Lift-off hinges

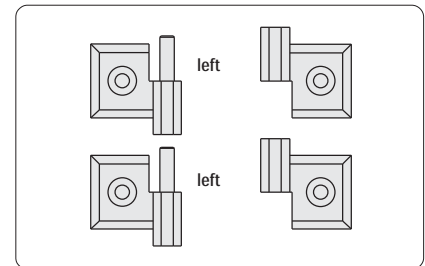


Application

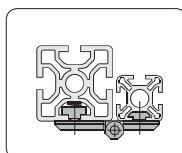
Enables the connection of different profile widths in parallel as well as in rectangular arrangement



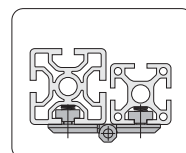
Non-liftable door with one right- and one left-sided hinge



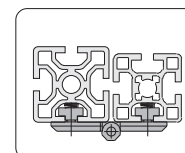
Liftable door with two similar hinges



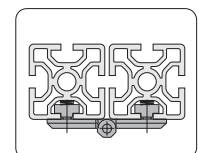
1 profile 30x30
1 profile 50x50



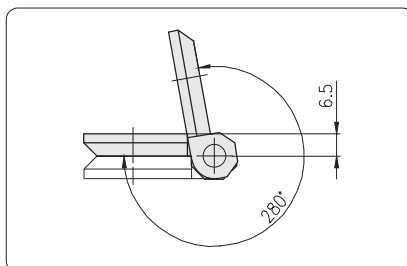
1 profile 40x40
1 profile 50x50



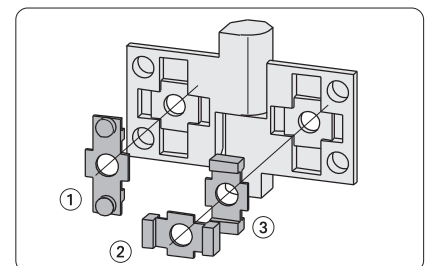
1 profile 45x45
1 profile 50x50



2 profiles 50x50



Swivel angle



Application of locking device:

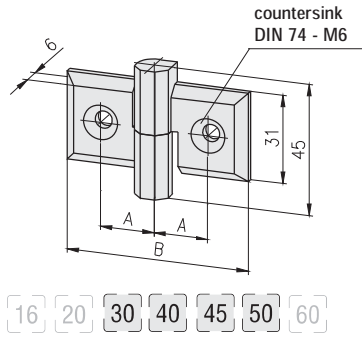
- ① for panel element
- ② for profile slot, horizontal
- ③ for profile slot, vertical

Technical data

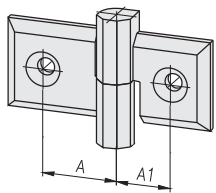
material: GD-Zn
 surface: black coated
 hinge bolt: stainless steel
 max. static load: 250 N

Comments

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



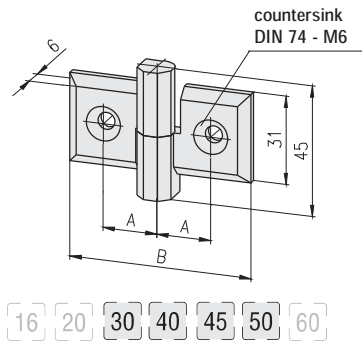
Description	A	B	Weight	Article-No.
Hinge 31, A16.5 left		59	68 g	1.62.331.16/16L
Hinge 31, A19.0 left		64	72 g	1.62.331.19/19L
Hinge 31, A21.5 left		69	76 g	1.62.331.21/21L
Hinge 31, A24.0 left		74	81 g	1.62.331.24/24L
Hinge 31, A26.5 left		79	86 g	1.62.331.26/26L



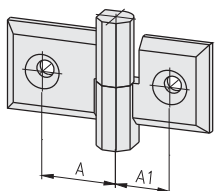
Combinations

Description	A ¹⁾	A1 ¹⁾	Article-No.
Hinge 31 × □□/□□ left			1.62.331.□□/□□L

¹⁾ Data without decimal places



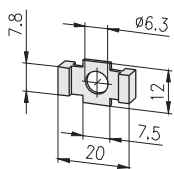
Description	A	B	Weight	Article-No.
Hinge 31, A16.5 right		59	68 g	1.62.331.16/16R
Hinge 31, A19.0 right		64	72 g	1.62.331.19/19R
Hinge 31, A21.5 right		69	76 g	1.62.331.21/21R
Hinge 31, A24.0 right		74	81 g	1.62.331.24/24R
Hinge 31, A26.5 right		79	86 g	1.62.331.26/26R



Combinations

Description	A ¹⁾	A1 ¹⁾	Article-No.
Hinge 31 × □□/□□ right			1.62.331.□□/□□R

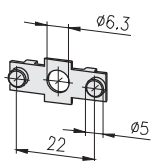
¹⁾ Data without decimal places



Technical data

material: GD-Zn
surface: bare

Description	Weight	Article-No.
Anti-twist device for slot 8 mm	4 g	1.62.331x1

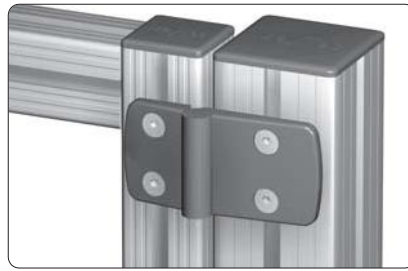


Technical data

material: GD-Zn
surface: bare

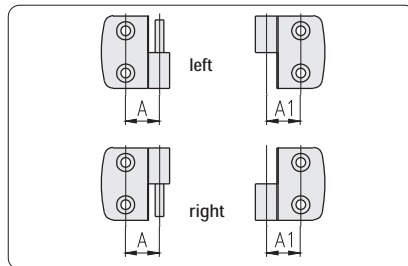
Description	Weight	Article-No.
Anti-twist device for panel element	4 g	1.62.331x2

Lift-off hinges

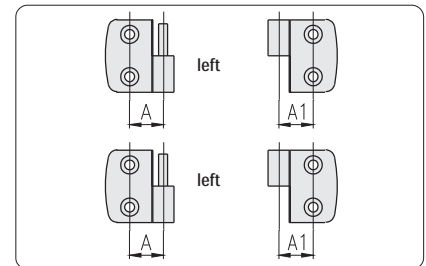


Application

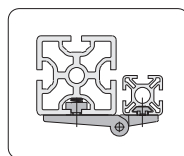
The hinges enable the connection of profiles with different widths



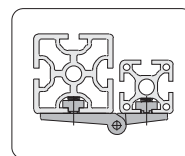
Non-liftable door with one right- and one left-sided hinge



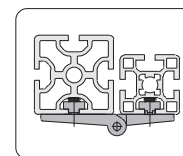
Liftable door with two similar hinges



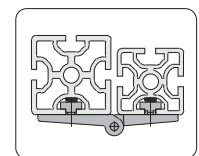
1 profile 60×60
1 profile 30×30



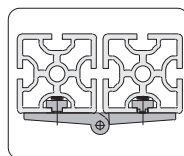
1 profile 60×60
1 profile 40×40



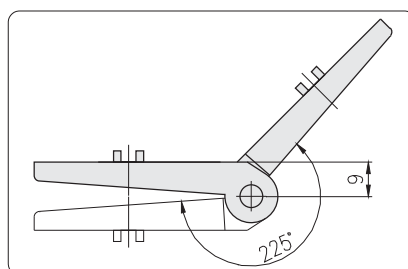
1 profile 60×60
1 profile 45×45



1 profile 60×60
1 profile 50×50



2 profiles 60×60



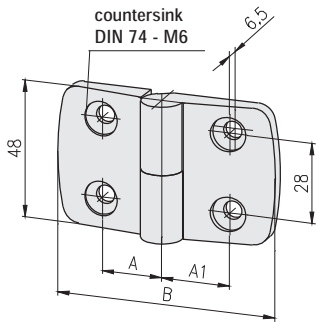
Swivel angle

Technical data

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

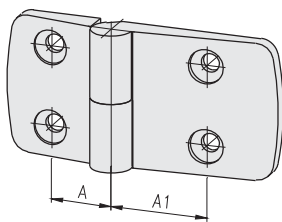
Comments

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



16 20 30 40 45 50 60

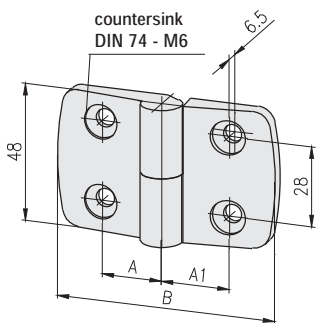
Description	A = A1	B	Weight	Article-No.
Lift-off hinge 48	A17.5, left	59	8 g	1.62.348.17/17L
Lift-off hinge 48	A22.5, left	77	10 g	1.62.348.22/22L
Lift-off hinge 48	A25.0, left	87	15 g	1.62.348.25/25L
Lift-off hinge 48	A27.5, left	97	25 g	1.62.348.27/27L
Lift-off hinge 48	A32.5, left	115	35 g	1.62.348.32/32L



Combinations

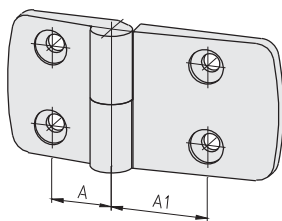
Description	A ¹⁾ A1 ¹⁾	Article-No.
Lift-off hinge 48 × □□/□□ left		1.62.348.□□/□□L

¹⁾ Data without decimal places



16 20 30 40 45 50 60

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

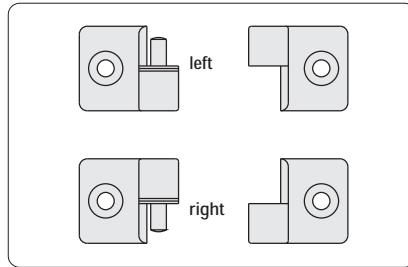
¹⁾ Data without decimal places

Hinges

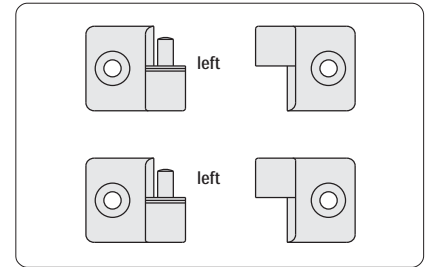


Application

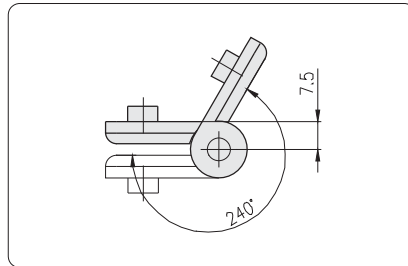
Hinge for doors and flaps of light material



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



Liftable door with two similar hinges



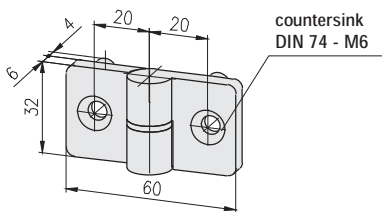
Swivel angle

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

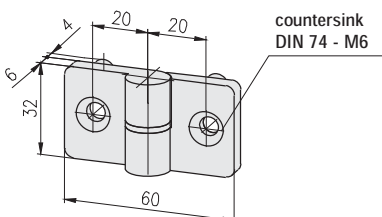
Hinge 32x60 left

Weight

21 g

Article-No.

1.62.41L



16 20 30 40 45 50 60

Description

Hinge 32x60 right

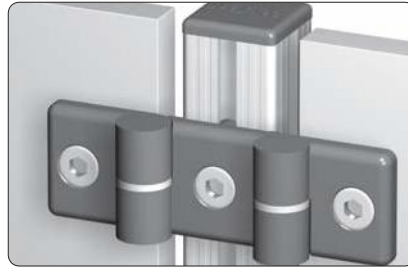
Weight

21 g

Article-No.

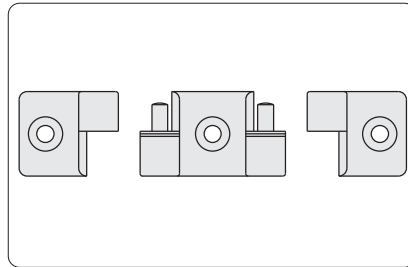
1.62.41R

Double hinge

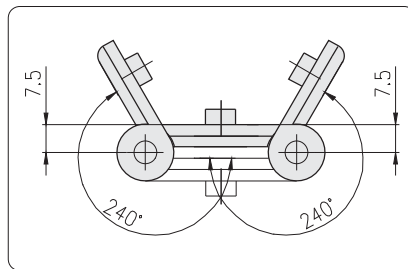


Application

Hinge for doors and flaps of light material



Liftable doors



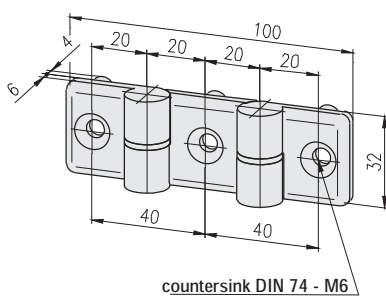
Swivel angle

Technical data

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

Comments

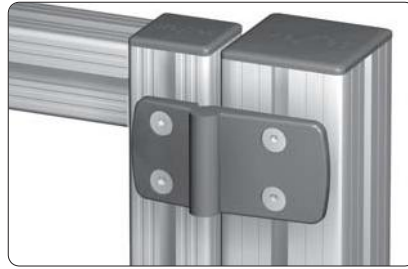
Countersink DIN 74 - M6 for
countersunk screw DIN 7991 - M6



- 16
- 20
- 30
- 40
- 45
- 50
- 60

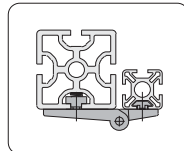
Description	Colour	Weight	Article-No.
Double hinge	grey	40 g	1.62.420.1
Double hinge	black	40 g	1.62.420.2

Hinges

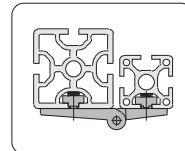


Application

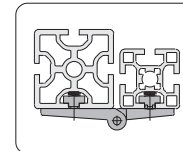
The hinges enable the connection of profiles with different widths



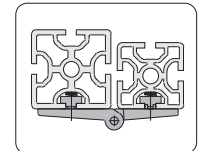
1 profile 60×60
1 profile 30×30



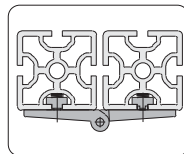
1 profile 60×60
1 profile 40×40



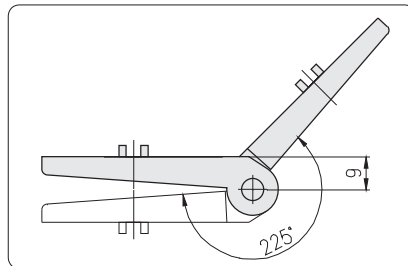
1 profile 60×60
1 profile 45×45



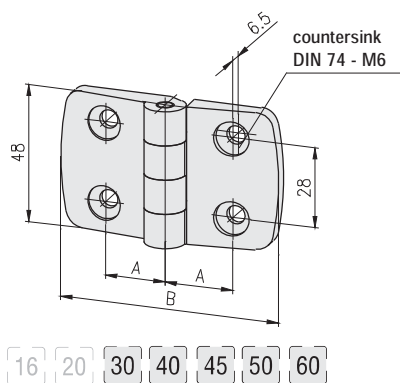
1 profile 60×60
1 profile 50×50



2 profiles 60×60



Swivel angle



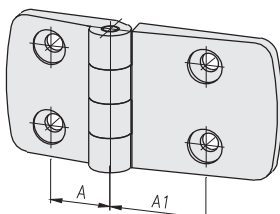
Technical data

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

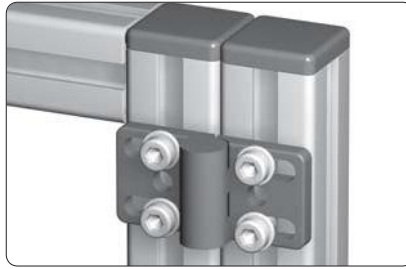


Combinations

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

¹⁾ Data without decimal places

**Hinge
30x60**

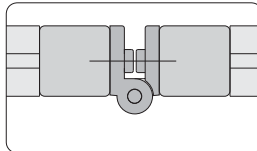


Application

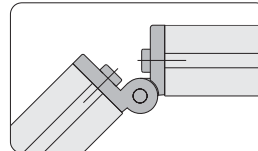
Hinge or higher loads such as doors with profile frames

Technical data

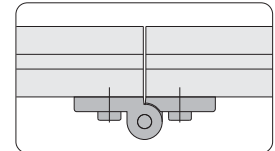
material: GD-Zn
 colour: black
 surface: coated
 max. static load: 400 N



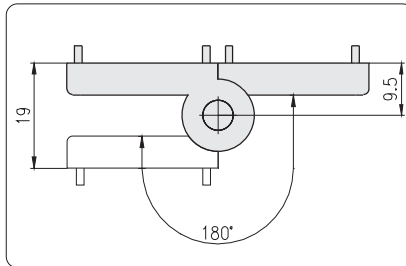
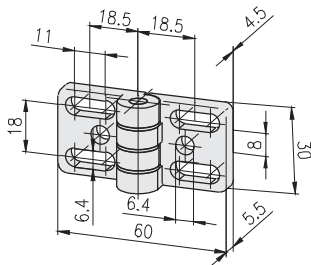
Connection of 2 vertical profiles, all anti-twist safety devices removed



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



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



Swivel angle

- 16
- 20
- 30
- 40
- 45
- 50
- 60

Description

Hinge 30x60

Weight

68.8 g

Article-No.

1.62.51030060

**Hinge
40x80**

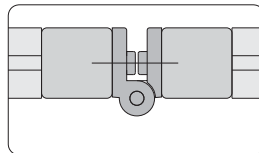


Application

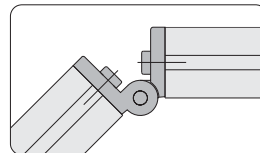
Hinge or higher loads such as doors with profile frames

Technical data

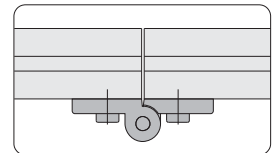
material: GD-Zn
 colour: black
 surface: coated
 max. static load: 750 N



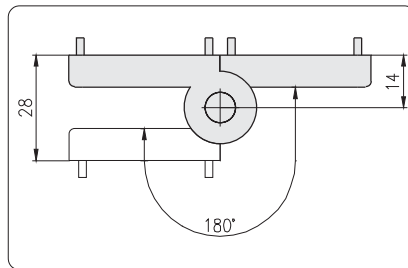
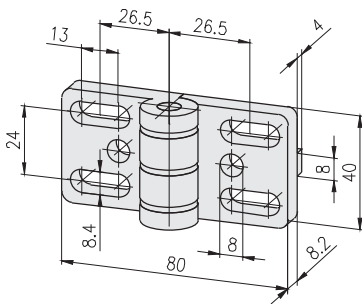
Connection of 2 vertical profiles, all anti-twist safety devices removed



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



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



Swivel angle

- 16
- 20
- 30
- 40
- 45
- 50
- 60

Description	Weight	Article-No.
Hinge 40x80	180 g	1.62.520

**Hinges
40x80**

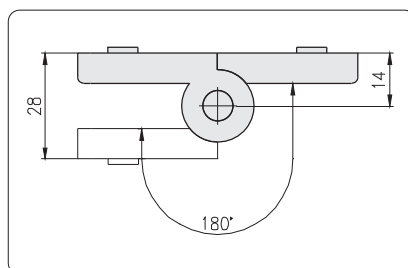


Application

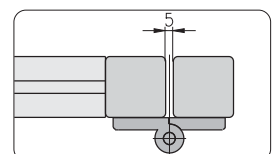
Hinge or higher loads such as doors with profile frames

Technical data

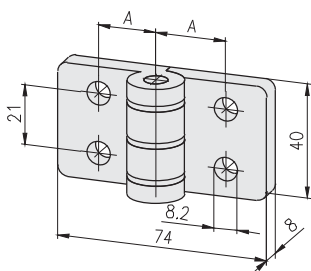
material: GD-Zn
 colour: black
 surface: powder-coated
 max. static load: 750 N



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

- 16
- 20
- 30
- 40
- 45
- 50
- 60

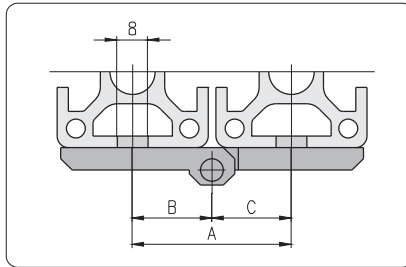
Description	A	Weight	Article-No.
Hinge 40x80 for PG 40	22.5	194 g	1.62.53045
Hinge 40x80 for PG 45	25.0	194 g	1.62.53050

Hinges

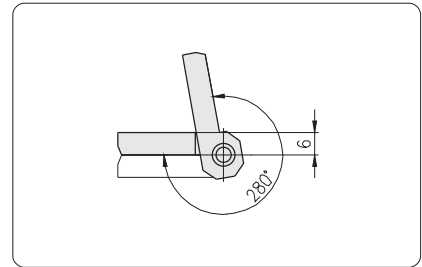


Application

Hinge with detachable fixing plug for different slot distances



Doors with profile frames



Swivel angle

Technical data

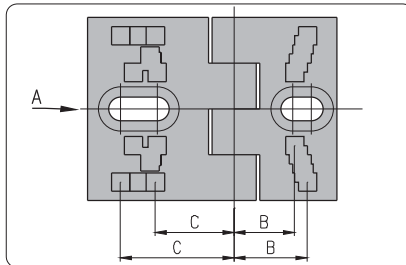
material: GD-Zn
 surface: coated
 colour: black
 max. static load: 250 N

Comments

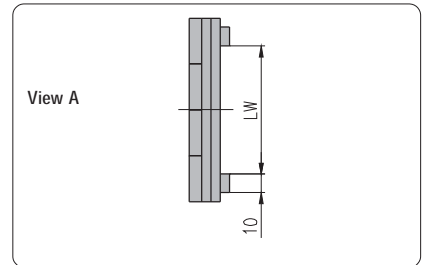
Countersink DIN 74 - M6 for countersunk screw DIN 7991 - M6

Delivery unit

Including 4 plugs for F- and E-slot



Distances for positioning plugs



Possibilities of fastening

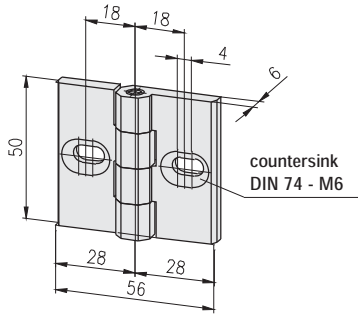
Legend

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

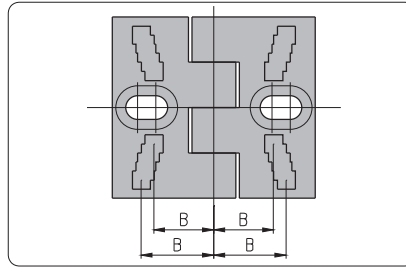
		short flange					
		slots					
		F		E3		E4	
B	LW	G	T	G	T	G	T
16.5	11	-	-	x	-	x	x
17.5	14.75	x	x	x	-	x	x
18.5	20.5	x	x	x	x	x	x
19	25.25	x	x	x	x	x	x
20	30	x	x	x	x	x	x

		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 50x56



- 16 20 30 40 45 50 60



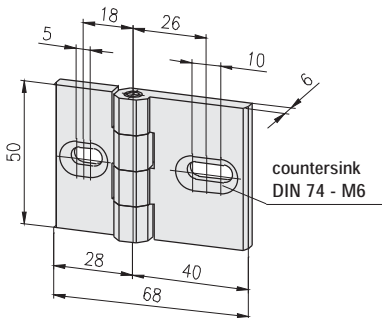
Rear view: plug assignment

2 short flanges

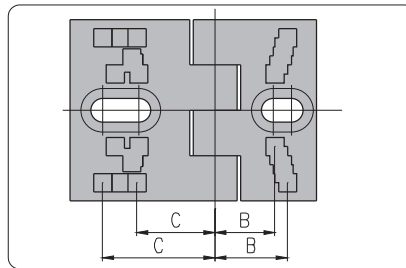
B
16.5
17.5
18.5
19
20

Description	Weight	Article-No.
Hinge 50x56	112 g	1.62.65056

Hinge 50x68



- 16 20 30 40 45 50 60



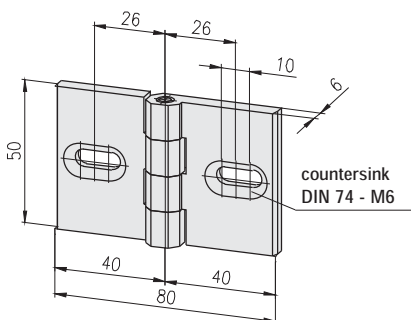
Rear view: plug assignment

1 short flange, 1 long flange

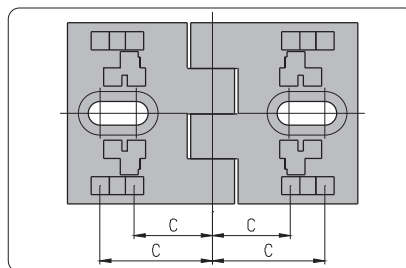
B	C
16.5	21
17.5	21.5
18.5	23.5
19	26
20	27.5
	31

Description	Weight	Article-No.
Hinge 50x68	130 g	1.62.65068

Hinge 50x80



- 16 20 30 40 45 50 60



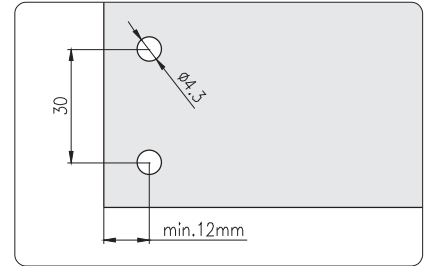
Rear view: plug assignment

2 long flanges

C
21
21.5
23.5
26
27.5
31

Description	Weight	Article-No.
Hinge 50x80	130 g	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

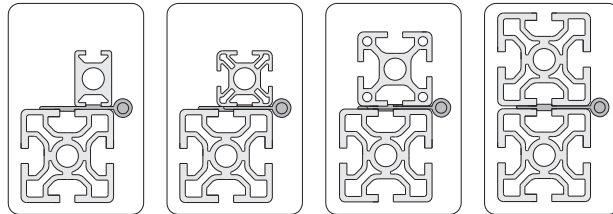
Technical data

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

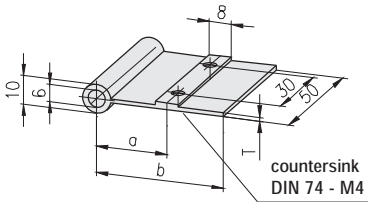
Type A



1 profile 20x30 1 profile 30x30 1 profile 40x40 2 profiles 50x50
 1 profile 50x50 1 profile 50x50 1 profile 50x50

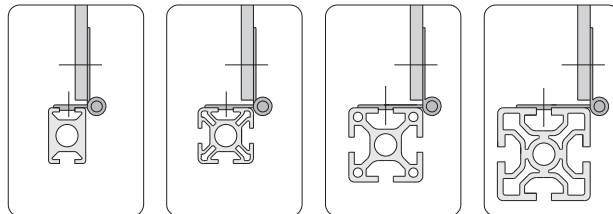
Connection:

- 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

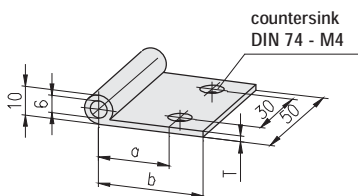
Type B



profile 20x30 profile 30x30 profile 40x40 profile 50x50

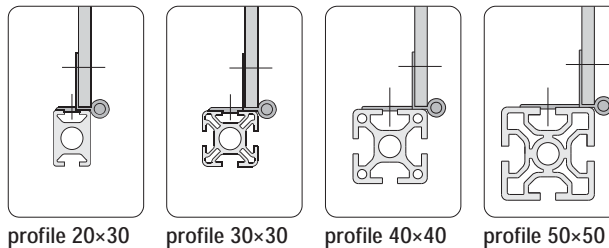
Connection:

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

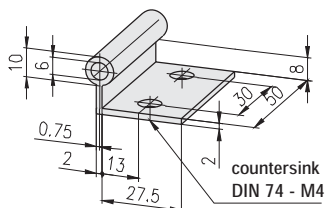


Description	T	a	b	Weight	Article-No.
Hinge element Type B, PG 20	2.0	15.3	21	11 g	1.62.7220
Hinge element Type B, PG 20	3.0	15.3	21	13 g	1.62.7220.030
Hinge element Type B, PG 30	2.0	20.3	29	11 g	1.62.7230
Hinge element Type B, PG 30	3.0	20.3	29	13 g	1.62.7230.030
Hinge element Type B, PG 40	2.0	25.3	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

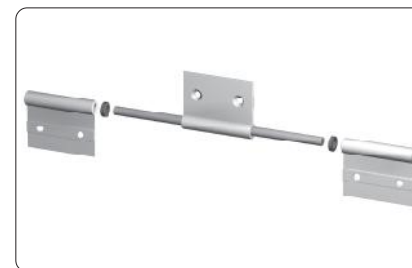


Description	Weight	Article-No.
Hinge element Type C, 30 mm	15 g	1.62.7330

Press-fit pins
for alu hinges

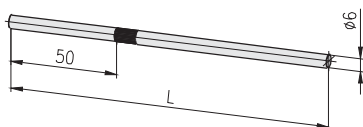


Press-fit pin for one sided installation



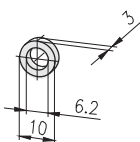
Press-fit pin for two sided installation

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

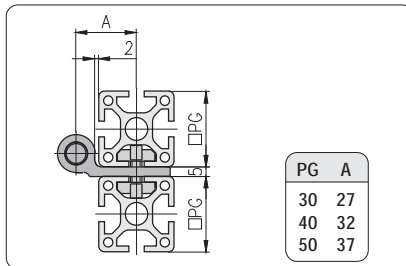
hinge material: aluminium
 strength: F25
 surface: natural anodised

bolt material: steel
 stainless steel

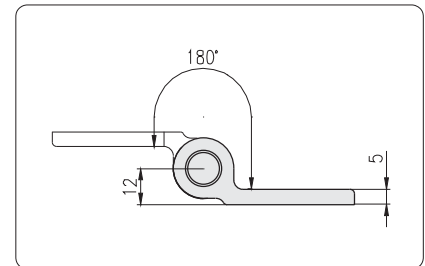


Comments

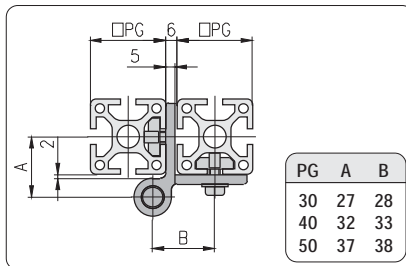
Countersink DIN 74 - M8 for
 countersunk screw DIN 7991 - M8



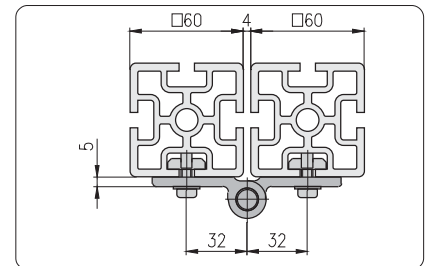
Application: Type 20



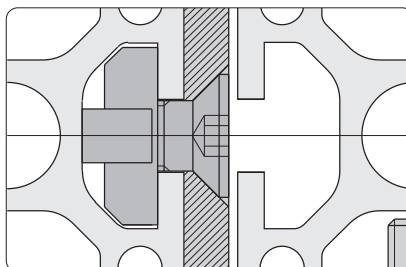
Swivel angle: Type 20



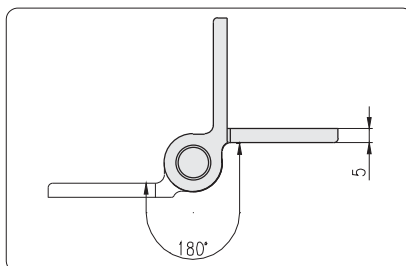
Application: Type 21, 22, 23, 31
 with profiles PG 40/50



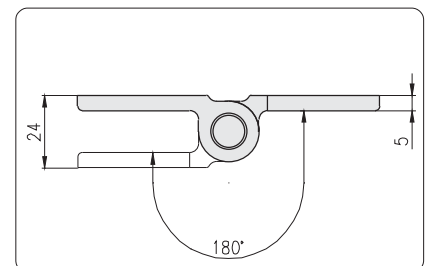
Application: Type 21, 22, 23, 31
 with profiles PG 60



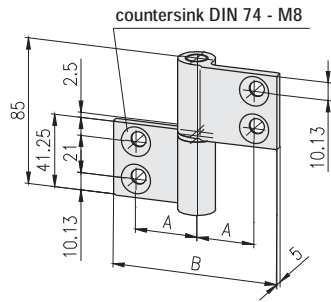
Application: Type 21, 22, 23, 31
 with profiles PG 30/40/50



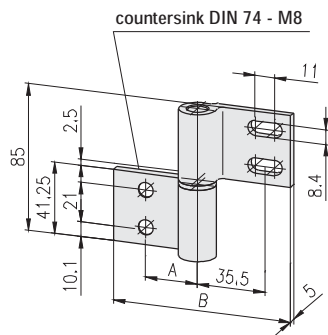
Swivel angle: Type 21, 22, 23, 31
 at application with profiles PG 30/40/50



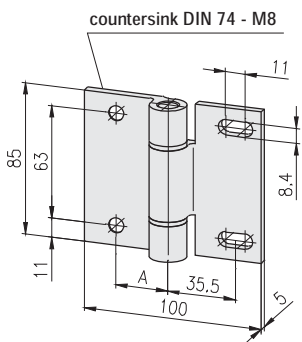
Swivel angle: Type 21, 22, 23, 31
 at application with profiles PG 60



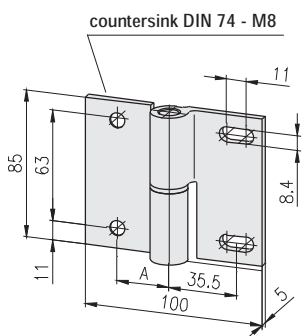
Description	Bolt	A	B	Weight	Article-No.
Alu hinge, heavy, type 20, PG 30	steel	27	78	130 g	1.62.842027085
Alu hinge, heavy, type 20, PG 40	steel	32	100	166 g	1.62.842032085
Alu hinge, heavy, type 20, PG 50	steel	37	100	166 g	1.62.842037085
Alu hinge, heavy, type 20, PG 30	stainless	27	78	130 g	1.62.842027085V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



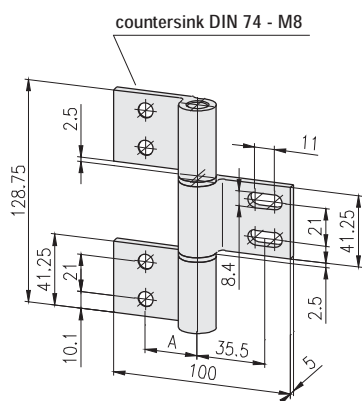
Description	Bolt	A	B	Weight	Article-No.
Alu hinge, heavy, type 21, PG 30/30-50	steel	27	89	123 g	1.62.842127085
Alu hinge, heavy, type 21, PG 40/40-50	steel	32	100	159 g	1.62.842132085
Alu hinge, heavy, type 21, PG 50	steel	37	100	159 g	1.62.842137085
Alu hinge, heavy, type 21, PG 30/30-50	stainless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



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

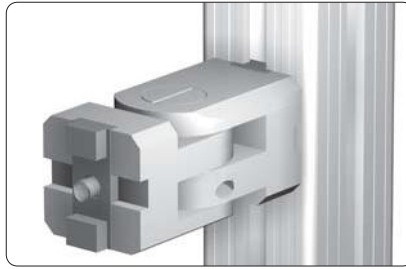


Description	Bolt	A	Weight	Article-No.
Alu hinge, heavy, type 23, PG 40/40-50	steel	32	258 g	1.62.842332085
Alu hinge, heavy, type 23, PG 50	steel	37	258 g	1.62.842337085
Alu hinge, heavy, type 23, PG 40/40-50	stainless	32	258 g	1.62.842332085V
Alu hinge, heavy, type 23, PG 50	stainless	37	258 g	1.62.842337085V

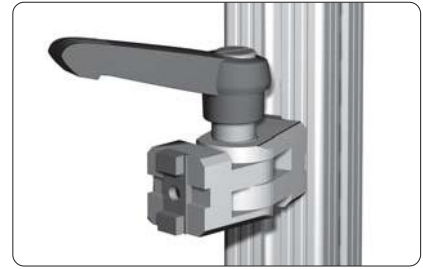


Description	Bolt	A	Weight	Article-No.
Alu hinge, heavy, type 31, PG 40/40-50	steel	32	245 g	1.62.843132128
Alu hinge, heavy, type 31, PG 50	steel	37	245 g	1.62.843137128
Alu hinge, heavy, type 31, PG 40/40-50	stainless	32	245 g	1.62.843132128V
Alu hinge, heavy, type 31, PG 50	stainless	37	245 g	1.62.843137128V

Joints
with / without clamping lever



The MayTec clamping system allows backlash free adjusting and clamping



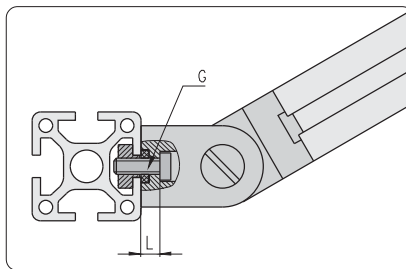
The joint can be locked with the adjustable clamping lever

Application

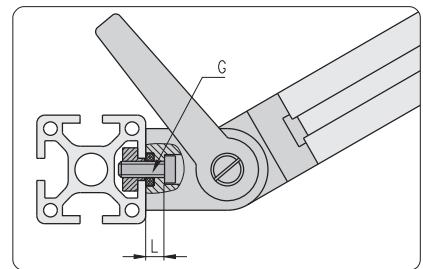
To enable infinitely variable adjusting and swivelling of profiles

Technical data

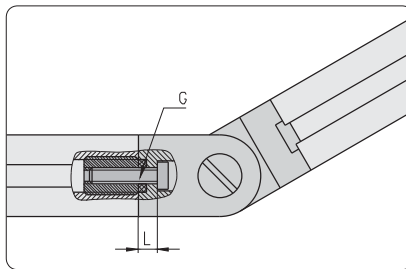
material: steel
surface: galvanised



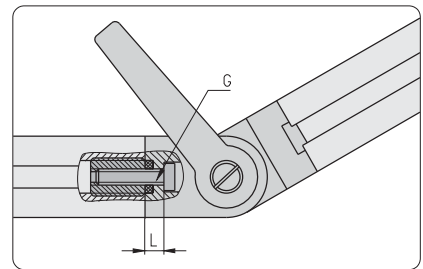
Mounting on profile side



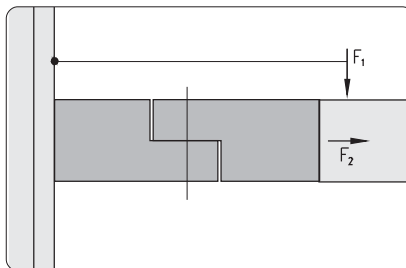
Mounting on profile side



Mounting on profile end



Mounting on profile end

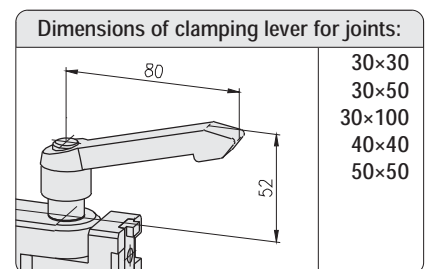
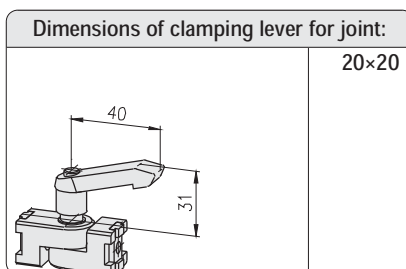


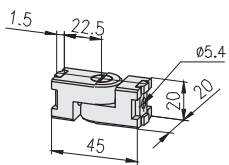
Joint	max. loads	
	F1 _{max}	F2 _{max}
20×20	10 Nm	2,000 N
30×30	30 Nm	4,000 N
30×50	50 Nm	4,000 N
30×100	100 Nm	8,000 N
30×100 ¹⁾	200 Nm	8,000 N
40×40	50 Nm	6,000 N
50×50	60 Nm	10,000 N

¹⁾ with fastening plate

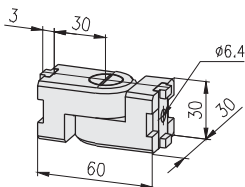
Comments

- Mounting with:
- cap-screw DIN 6912
 - washer DIN 433

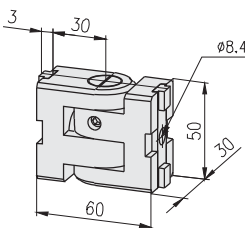


20x20


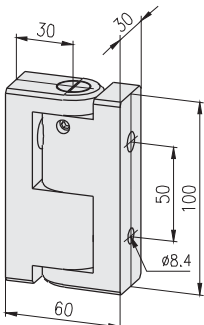
Description	G	L	Weight	Article-No.
Joint 20x20	M5	6.5	97 g	1.63.02021
Joint 20x20 with clamping lever	M5	6.5	114 g	1.63.12021
Anti-twist device for joint, H, L20			8 g	1.63.02022
Anti-twist device for joint, F, L20			8 g	1.63.02023

30x30


Description	G	L	Weight	Article-No.
Joint 30x30	M6	7.5	315 g	1.63.03031
Joint 30x30 with clamping lever	M6	7.5	380 g	1.63.13031
Anti-twist device for joint, L30			28 g	1.63.03032

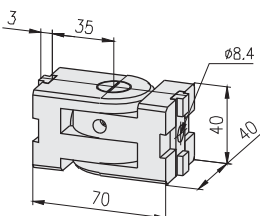
30x50


Description	G	L	Weight	Article-No.
Joint 30x50	M8	7.5	533 g	1.63.03051
Joint 30x50 with clamping lever	M8	7.5	600 g	1.63.13051
Anti-twist device for joint, L30			28 g	1.63.03032
Anti-twist device for joint, L50			33 g	1.63.03052

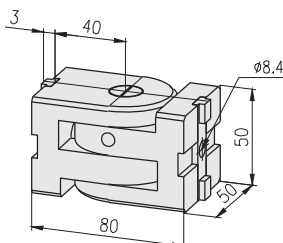
30x100

Comments

To increase the load capacity on hinge 30x100
 ➔ fastening plate 30x150, 1.47.60315

Description	G	L	Weight	Article-No.
Joint 30x100	M8	7.5	1,098 g	1.63.03101
Joint 30x100 with clamping lever	M8	7.5	1,160 g	1.63.13101

40x40


Description	G	L	Weight	Article-No.
Joint 40x40	M8	7.5	674 g	1.63.04041
Joint 40x40 with clamping lever	M8	7.5	739 g	1.63.14041
Anti-twist device for joint, L40			28 g	1.63.04042

50x50


Description	G	L	Weight	Article-No.
Joint 50x50	M8	7.5	1,244 g	1.63.05051
Joint 50x50 with clamping lever	M8	7.5	1,300 g	1.63.15051
Anti-twist device for joint, L50			33 g	1.63.03052

Joints Zn
with / without clamping lever



The MayTec clamping system allows backlash free adjusting and clamping



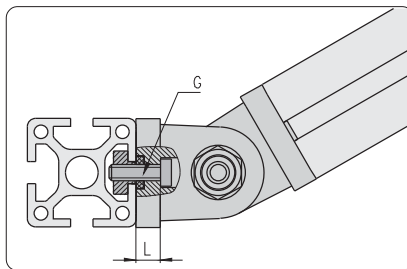
The joint can be locked with the adjustable clamping lever

Application

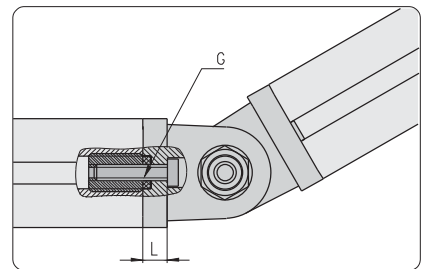
To enable infinitely variable adjusting and swivelling of profiles

Technical data

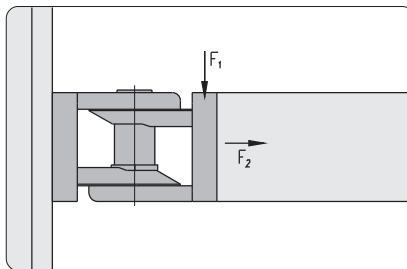
material: GD-Zn
surface: aluminium coloured powder-coated



Mounting on profile side



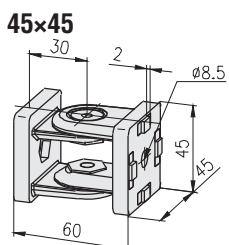
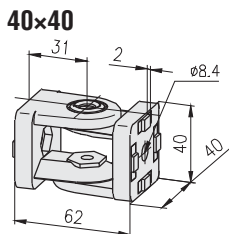
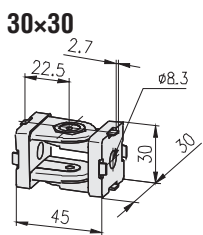
Mounting on profile end



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

Comments

- Mounting with:
- cap screw DIN 6912
 - washer DIN 433

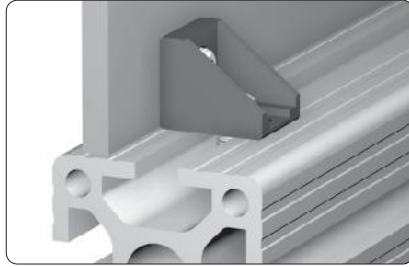


Description	G	L	Weight	Article-No.
Joint Zn 30×30	M8	7.0	124 g	1.63.51030030
Joint Zn 30×30 with clamping lever	M8	7.0	147 g	1.63.52030030

Description	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	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**

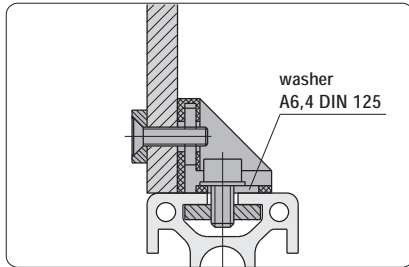


Application

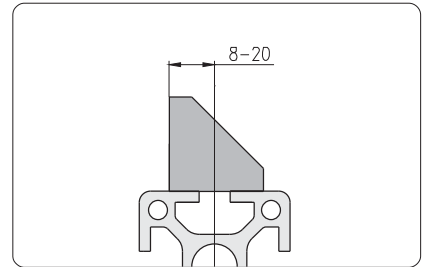
For mounting of panels

Technical data

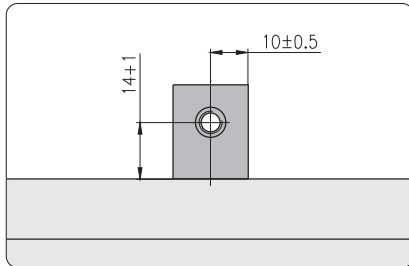
Mounting block
material: PA-GF
colours: grey, black
Threaded plate
material: steel
surface: galvanised



Mounting on the profile with threaded plate or T-Nut

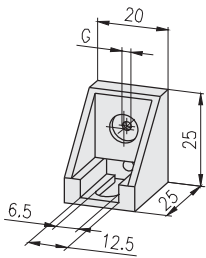


Adjustable position



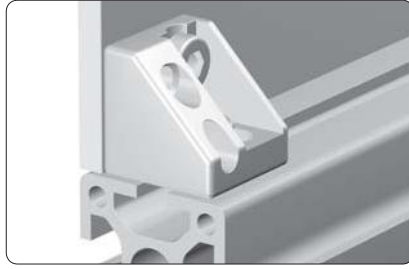
Comments

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



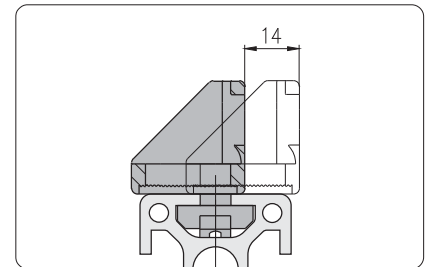
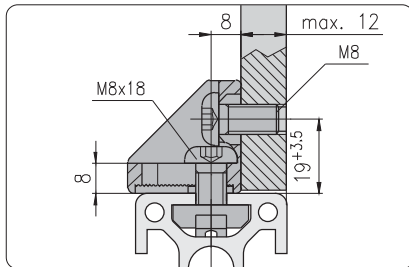
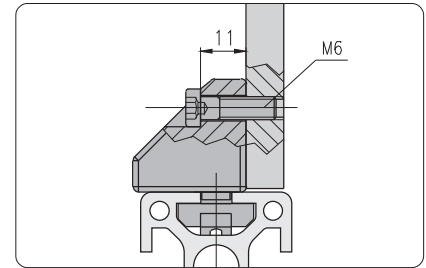
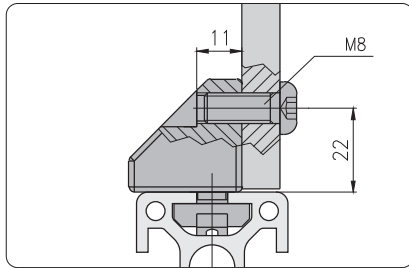
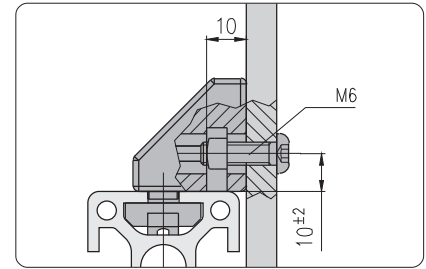
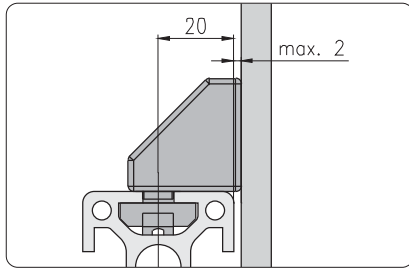
Description	G	Colour	Weight	Article-No.
Mounting block screw type M3	M3	grey	9 g	1.64.10M3.1
Mounting block screw type M3	M3	black	9 g	1.64.10M3.2
Mounting block screw type M4	M4	grey	9 g	1.64.10M4.1
Mounting block screw type M4	M4	black	9 g	1.64.10M4.2
Mounting block screw type M5	M5	grey	9 g	1.64.10M5.1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

Mounting block GD-Zn

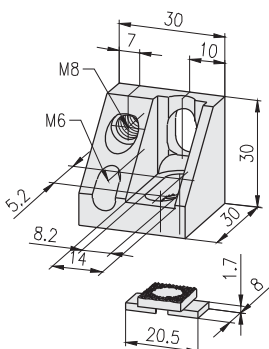
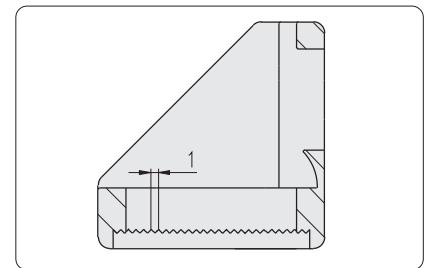


Application
For mounting of panels

Technical data
material: GD-Zn

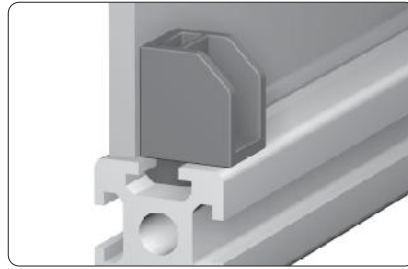


Anti-twistable mounting in steps of 1 mm



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

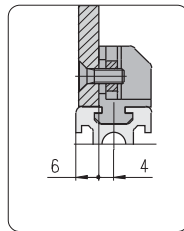
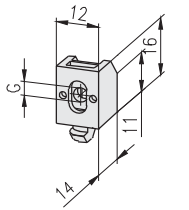
Mounting blocks for subsequent insertion



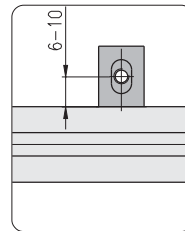
Application

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

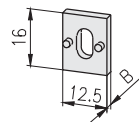
Technical data

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

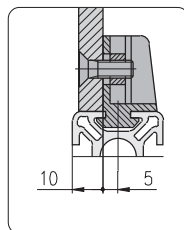
Technical data

material: PA-GF
colour: black

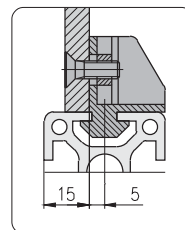


Description	B	Weight	Article-No.
Distancing plate for mounting block H	1	0.2 g	1.64.xH01
Distancing plate for mounting block H	2	0.4 g	1.64.xH02
Distancing plate for mounting block H	3	0.6 g	1.64.xH03
Distancing plate for mounting block H	4	0.8 g	1.64.xH04

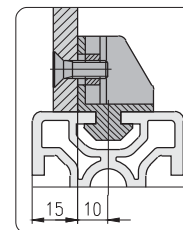
Mounting blocks F and E



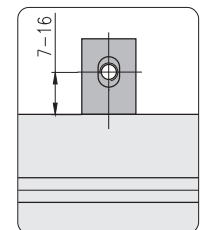
F-slot



E3-slot



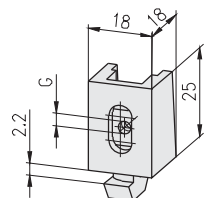
E4-slot



Tolerance equalisation: 9 mm

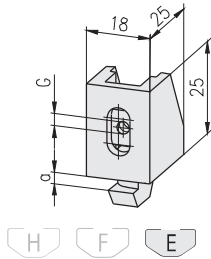
Technical data

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

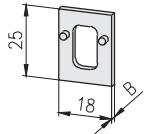
Mounting blocks E



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

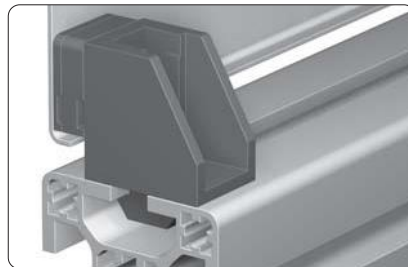
Technical data

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

Distancing plate, thin

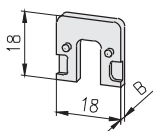
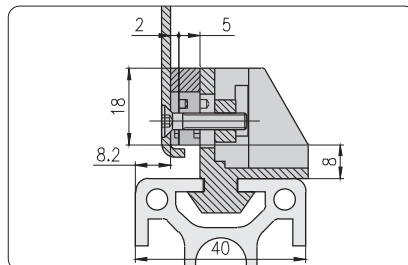


Application

For the mounting of folded panels

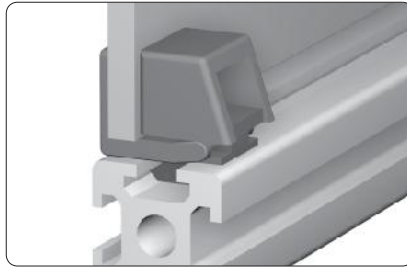
Technical data

material: PA-GF
colours: grey, black



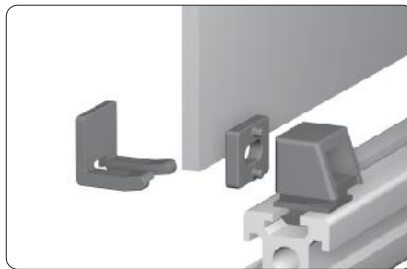
Description	B	Colour	Weight	Article-No.
Distancing plate, thin, for mounting block FE	2	grey	0.3 g	1.64.2x102.1
Distancing plate, thin, for mounting block FE	2	black	0.3 g	1.64.2x102.2
Distancing plate, thin, for mounting block FE	3	grey	0.6 g	1.64.2x103.1
Distancing plate, thin, for mounting block FE	3	black	0.6 g	1.64.2x103.2
Distancing plate, thin, for mounting block FE	5	grey	0.9 g	1.64.2x105.1
Distancing plate, thin, for mounting block FE	5	black	0.9 g	1.64.2x105.2

Mounting clamp blocks for subsequent insertion

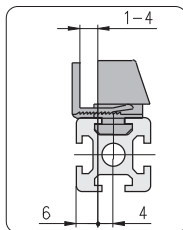


Application

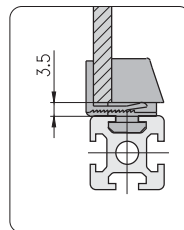
Mounting of panels with clamps, without drilling and screwing
 For subsequent insertion:
 Variable mounting position of panels with distance plates



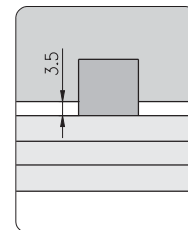
The distance plates are positioned and fastened by pins, it is possible to mount several distance plates in series



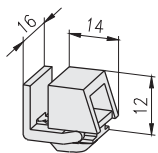
H-slot



Installation dimensions



Installation dimensions



Technical data

material: PA-GF
 colour: black
 max. static load:
 • towards clamp block: 110 N
 • towards slider: 30 N

Description

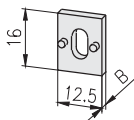
Description	Weight	Article-No.
Mounting clamp block H	3.4 g	1.64.3H2

Technical data

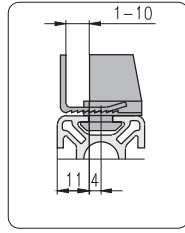
material: PA-GF
 colour: black

Description

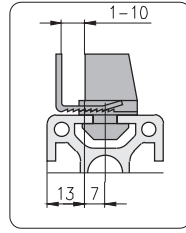
Description	B	Weight	Article-No.
Distancing plate for mounting clamp block H 1	1	0.2 g	1.64.xH01
Distancing plate for mounting clamp block H 2	2	0.4 g	1.64.xH02
Distancing plate for mounting clamp block H 3	3	0.6 g	1.64.xH03
Distancing plate for mounting clamp block H 4	4	0.8 g	1.64.xH04



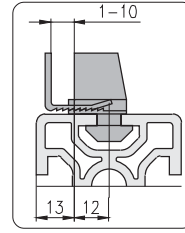
Mounting clamp blocks for subsequent insertion



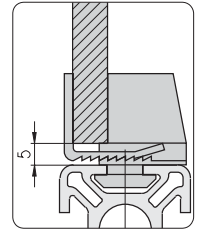
F-slot



E3-slot



E4-slot



Installation dimensions

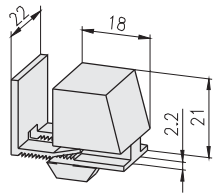
Technical data

material: PA-GF

colour: black

max. static load:

- towards clamp block: 250 N
- towards slider: 50 N



Description

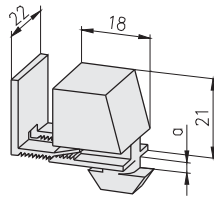
Mounting clamp block F

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

Mounting clamp block E4

a

4.0

Weight

8.0 g

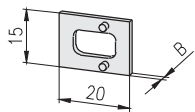
Article-No.

1.64.3E4

Technical data

material: PA-GF

colour: black



Description

Distancing plate for mounting clamp block FE 2

B

2

Weight

0.6 g

Article-No.

1.64.3x02

Distancing plate for mounting clamp block FE 3

B

3

Weight

0.9 g

Article-No.

1.64.3x03

Distancing plate for mounting clamp block FE 5

B

5

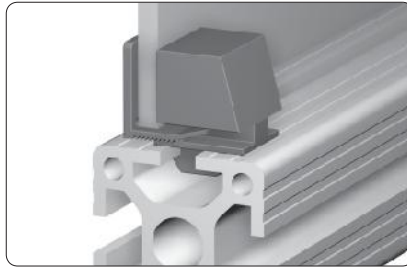
Weight

1.4 g

Article-No.

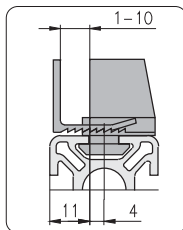
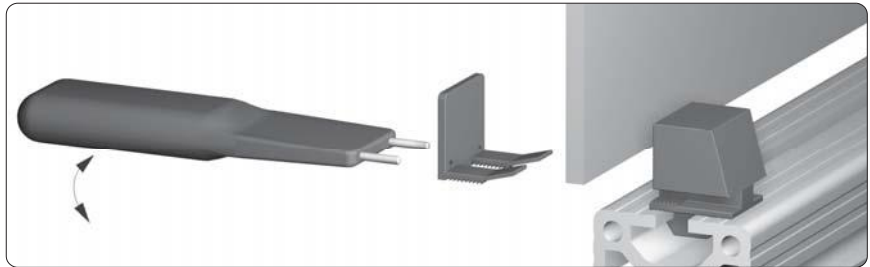
1.64.3x05

Mounting clamp blocks SL for subsequent insertion

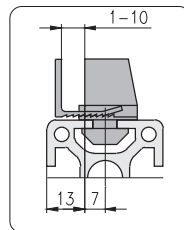


Application

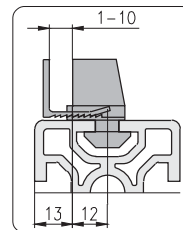
As mounting clamp block, however: For safety's sake it is only possible to be opened with special tools



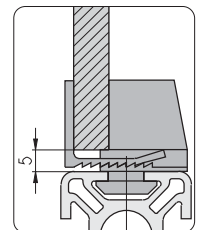
F-slot



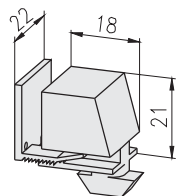
E3-slot



E4-slot



Installation dimensions



Technical data

material: PA-GF
 colour: black
 max. static load:
 • towards clamp block: 250 N
 • towards slider: 50 N

Description

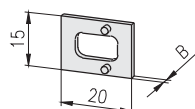
Description	Weight	Article-No.
Mounting clamp block F, SL	7.5 g	1.64.4F2
Mounting clamp block E3, SL	8.0 g	1.64.4E3
Mounting clamp block E4, SL	8.0 g	1.64.4E4

Technical data

material: PA-GF
 colour: black

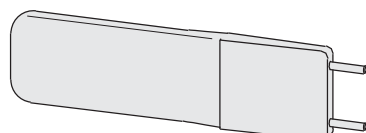
Description

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

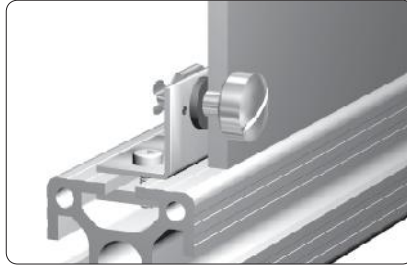
material: PA-GF
 colour: red
 steel bolt: hardened



Description

Description	Weight	Article-No.
Tool for mounting clamp block SL	23 g	1.64.4W

Quick locks

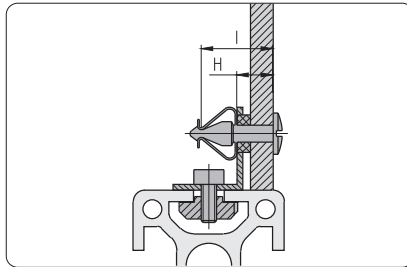


Application

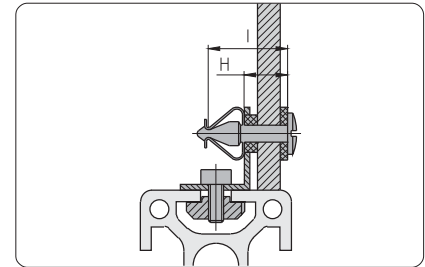
Mounting element for quick mounting and dismounting of covers

Comments

open: by 1/4-turn
close: by push in



Fastening without washer
 $H_{max} = S_{retaining\ ring} + \text{panel thickness}$

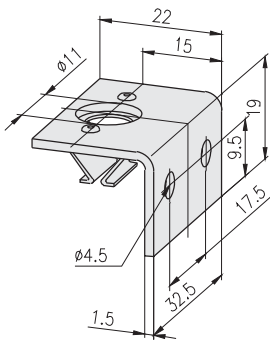


Fastening with washer
 $H_{max} = S_{retaining\ ring} + \text{panel thickness} + S_{washer}$

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

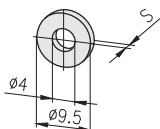
material: steel
surface: galvanised

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 g	1.64.5101

Retaining rings



Technical data

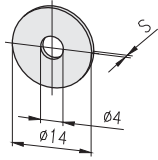
material: neoprene
hardness: 55 Shore A
temperature range: - 50°C to + 90°C

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

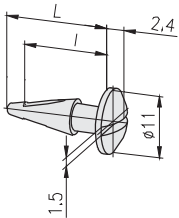
Round head bolts

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	5.7	18.6	16.4	4.0 g	1.64.5418
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	8.9	21.8	19.6	5.0 g	1.64.5421
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

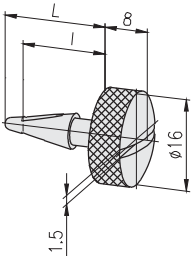
Knurled head bolts

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	3.7	16.6	14.4	14.0 g	1.64.5516
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	6.9	19.8	17.6	14.0 g	1.64.5519
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
Knurled head bolt	10.7	23.6	21.4	15.0 g	1.64.5523

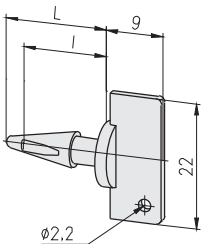
Wing head bolts

Technical data

material: brass
 surface: nickel-plated

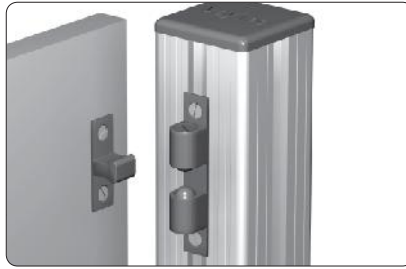
Comments

Mounting dimension "H" see mounting sketch



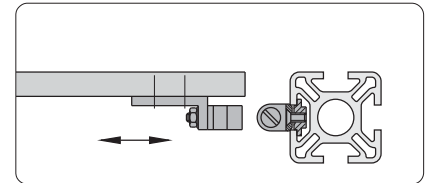
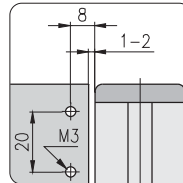
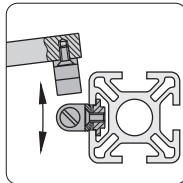
Description	H _{max}	L	I	Weight	Article-No.
Wing head bolt	3.7	16.6	14.4	5.8 g	1.64.5616
Wing head bolt	4.7	17.6	15.4	5.8 g	1.64.5617
Wing head bolt	5.7	18.6	16.4	5.8 g	1.64.5618
Wing head bolt	6.9	19.8	17.6	5.8 g	1.64.5619
Wing head bolt	7.7	20.6	18.4	6.3 g	1.64.5620
Wing head bolt	8.9	21.8	19.6	6.3 g	1.64.5621
Wing head bolt	9.7	22.6	20.4	6.3 g	1.64.5622
Wing head bolt	10.7	23.6	21.4	6.3 g	1.64.5623

Bullet catches



Application

Lock for swinging and sliding doors

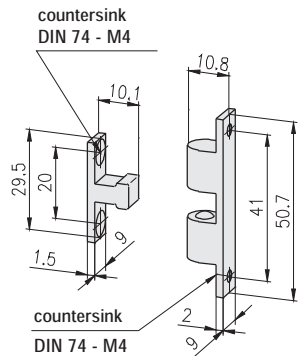


Technical data

material: brass, natural
bullet: stainless steel
retention force: adjustable

Comments

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



Description

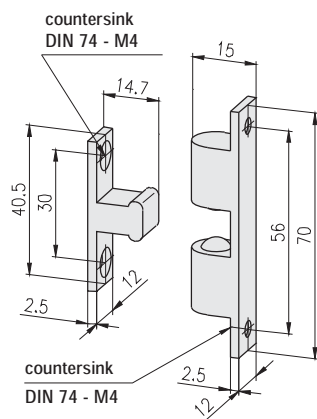
Bullet catch 9x50

Weight

25.0 g

Article-No.

1.65.1101



Comments

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

Description

Bullet catch 12x70

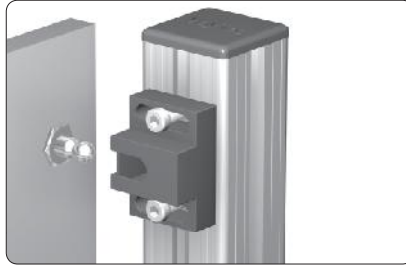
Weight

72.0 g

Article-No.

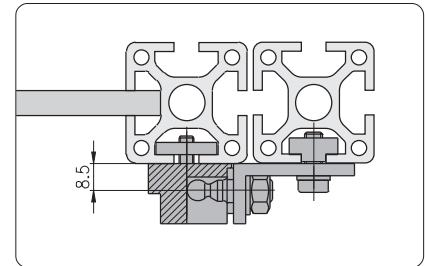
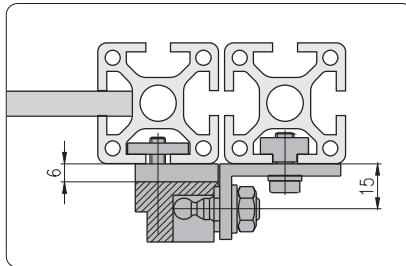
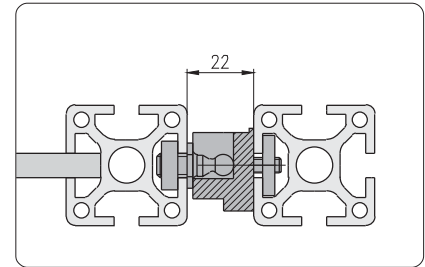
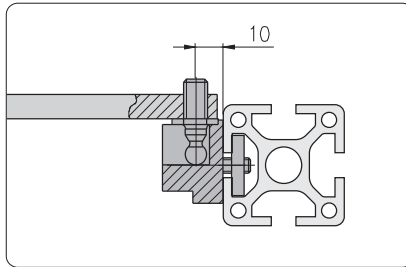
1.65.1102

Bullet catch PA



Application

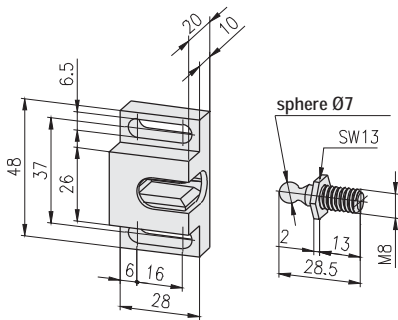
Lock for swinging and sliding doors



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

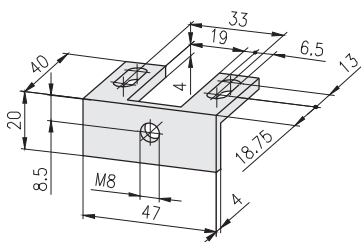


Technical data

capsule: PA-GF, black
bolt: steel, galvanised
retention force: 45 N

Description	Weight	Article-No.
Bullet catch PA	23.0 g	1.65.1201

Angle

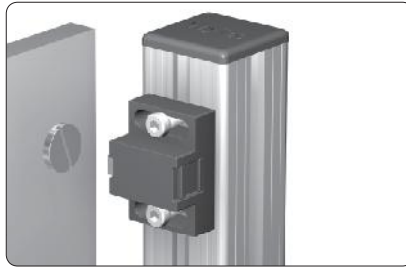


Technical data

material: aluminium
strength: F22
surface: natural anodised

Description	Weight	Article-No.
Angle 20×47, M8	16.0 g	1.65.1301

Magnetic lock PA

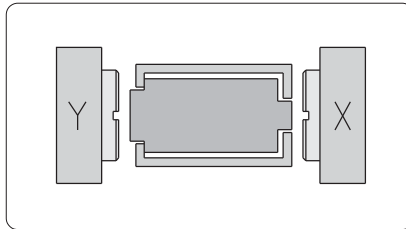


Application

Lock for swinging and sliding doors

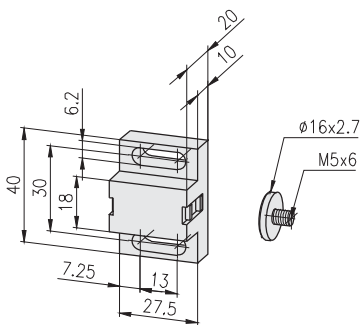
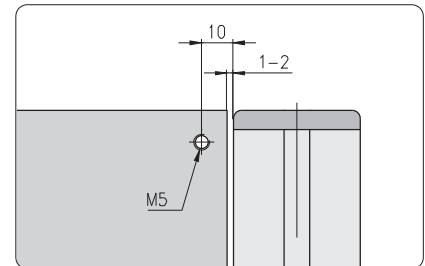
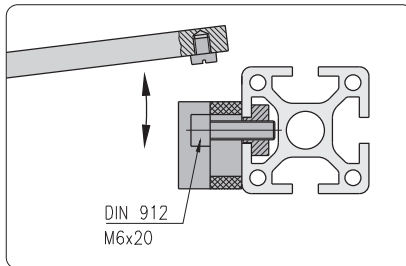
Technical data

capsule: PA-GF, black
 flat head screw: steel, galvanised
 retention force: y = 40 N
 x = 25 N



Comments

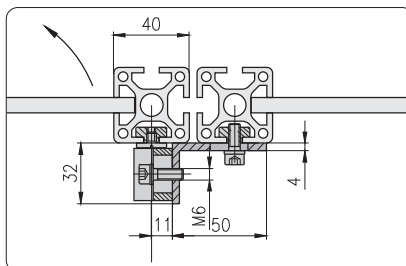
Different force
 y = large force
 x = small force



Description
 Magnetic lock PA

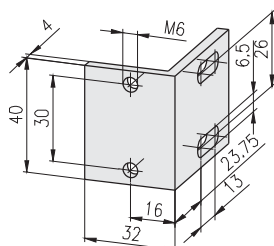
Weight 38.0 g
Article-No. 1.65.2101

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

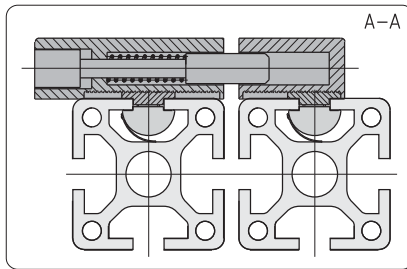


Application

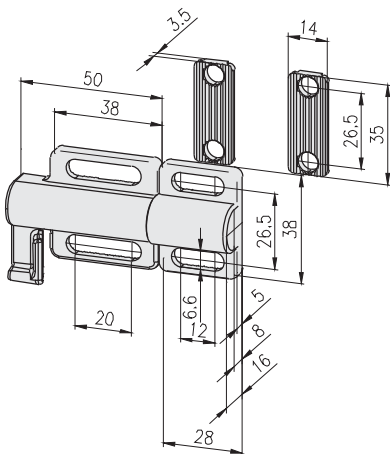
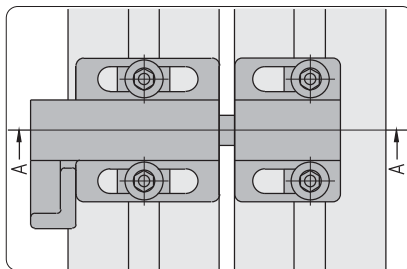
Lock with sprung bolt for easy closing of doors and panels, including separate slot fastening capability

Technical data

capsule: GD Zn, painted silver
 handle: PA, black
 bolt: stainless steel



Slot fastening capability



Description	Weight	Article-No.
Lock GD-Zn	120.0 g	1.65.2538078

Cylinder locks

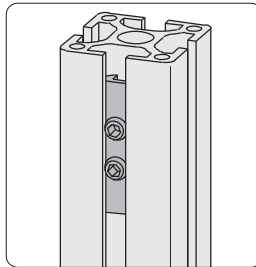


Application

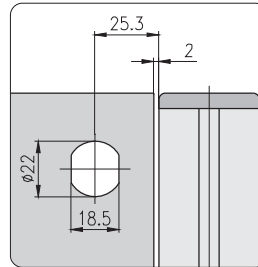
Locking system for swinging and sliding doors

Comments

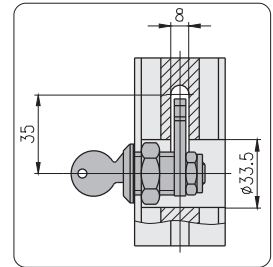
By turning the lock body the cylinder lock is insertable left or right



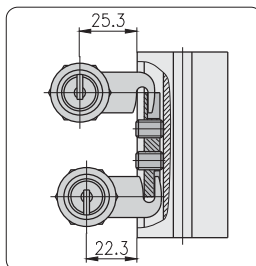
Insertion of the latch



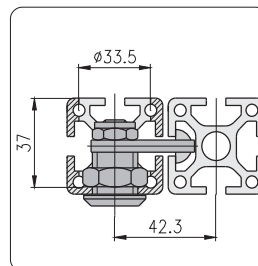
Fixing dimensions for the cylinder lock



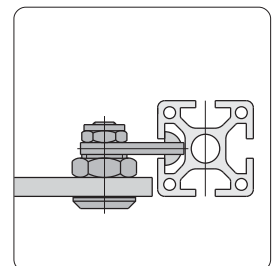
Fixing dimensions for the cylinder lock



Latch for two different bore spaces



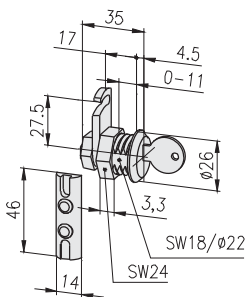
Swinging door with profile frame made of profile 40x40



Swinging door without profile frame

Technical data

capsule: GD Zn, galvanised
tongue, nut, screw: steel, galvanised



Description

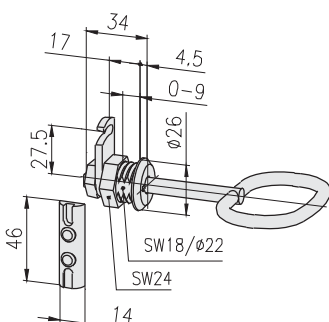
Cylinder lock with 2 keys

Weight

82.0 g

Article-No.

1.65.3101



Comments

Key with double beard Ø8 mm

Description

Cylinder lock with double beard insert

Weight

150.0 g

Article-No.

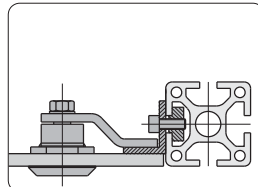
1.65.3102

Cylinder locks with security latch

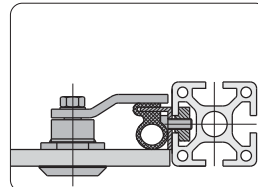


Application
Lock for swinging door

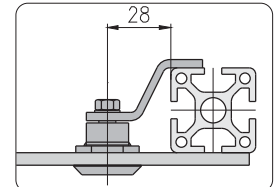
Comments
Security latch
Jolting- and vibrationless by integral lock



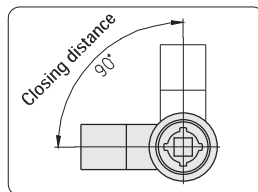
Installation variant with mounting angle



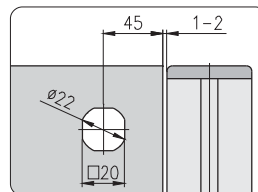
Installation variant with seal



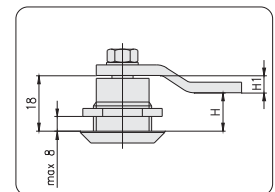
Installation variant



Closing distance

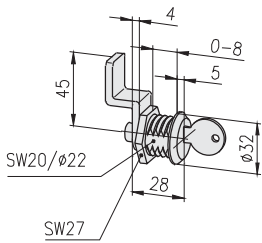


Drilling pattern



Security latch dimension H;
H1 = 18-H

Cylinder locks



Technical data

capsule: GD Zn, galvanised
tongue, nut, screw: steel, galvanised

Description

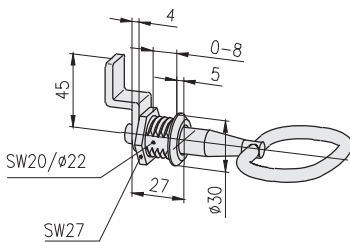
Cylinder lock with 2 keys, without security latch

Weight

66 g

Article-No.

1.65.3201



Comments

Socket wrench / square 8 mm

Description

Cylinder lock with 1 square key, without security latch

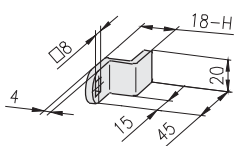
Weight

100 g

Article-No.

1.65.3202

Security latch



Description

Security latch for cylinder lock

Weight

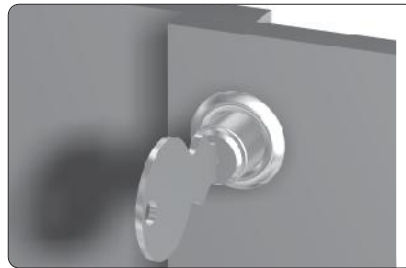
30 g

Article-No.

1.65.32...

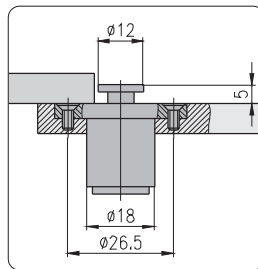
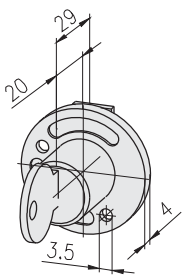
H	Article-No.	H	Article-No.	H	Article-No.	H	Article-No.
4	1.65.3204	18	1.65.3218	30	1.65.3230	42	1.65.3242
6	1.65.3206	20	1.65.3220	32	1.65.3232	44	1.65.3244
8	1.65.3208	22	1.65.3222	34	1.65.3234	45	1.65.3245
10	1.65.3210	24	1.65.3224	35	1.65.3235	47	1.65.3247
13	1.65.3213	25	1.65.3225	36	1.65.3236	50	1.65.3250
14	1.65.3214	26	1.65.3226	38	1.65.3238		
16	1.65.3216	28	1.65.3228	40	1.65.3240		

Flap-lock countersunk for sliding door

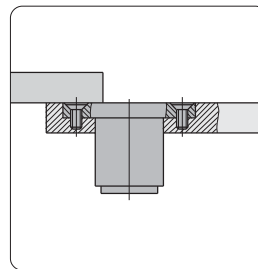


Application
Lock for sliding door

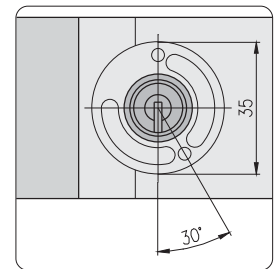
Technical data
capsule: GD Zn, chrome-plated
tongue and nut: steel, galvanised



Locked



Open



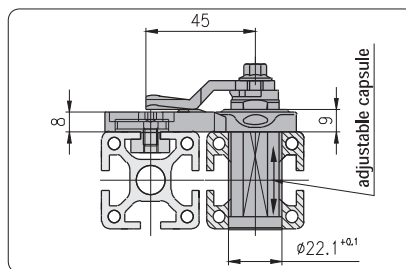
Description	Weight	Article-No.
Flap-lock countersunk, for sliding door	52 g	1.65.3301

Cylinder locks flush

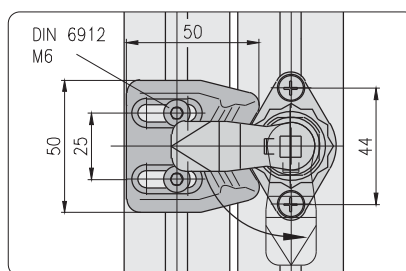
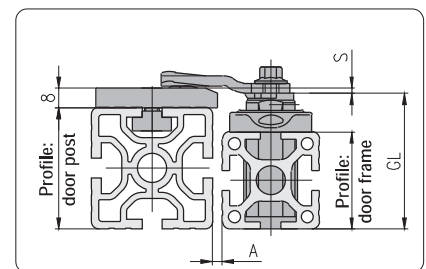


Application
Locking system for swinging doors

Technical data
locking: 90°
material:
• capsule: GD Zn, chrome-plated
• fixing plate: steel, chrome-plated



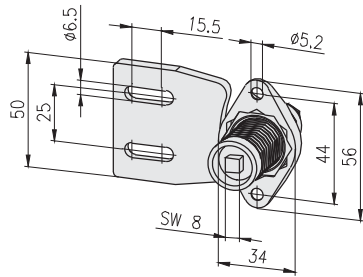
Outside: flush
(without jutout of lock parts)



Inside: with fixing plate

Profile				Latch
Door post	Door frame	GL	A	S
40	40	56	1.6	-8
	45	66	1.8	-12
50	40	56	1.6	2
	45	66	1.8	-8
	50	66	2.0	-8
60	40	56	1.6	12
	45	66	1.8	2
	50	66	2.0	2
	60	76	3.0	-8

Cylinder locks flush



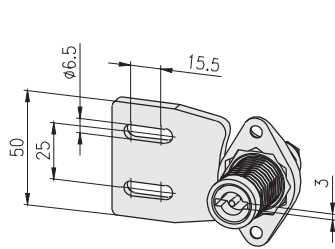
Delivery unit

- 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
Cylinder lock flush, square	66	212.8 g	1.65.34166
Cylinder lock flush, square	76	231.6 g	1.65.34176



Delivery unit

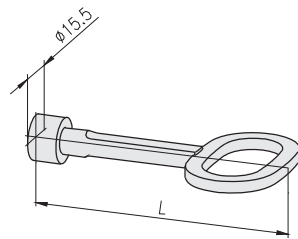
- cylinder lock with fixing plate

Separate order

- key
- security latch

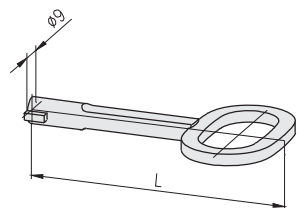
Description	GL	Weight	Article-No.
Cylinder lock flush, double beard	56	193.8 g	1.65.34356
Cylinder lock flush, double beard	66	204.1 g	1.65.34366
Cylinder lock flush, double beard	76	214.4 g	1.65.34376

Square keys



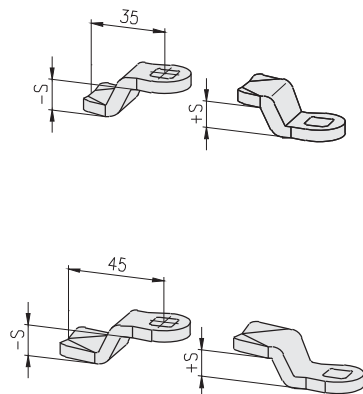
Description	L	Material	Weight	Article-No.
Square key 8, 40 mm		PA-GF	7.5 g	1.65.34540
Square key 8, 81 mm		GD Zn	41.6 g	1.65.34581

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	S	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

Description	S	Weight	Article-No.
Security latch 45	2	26.8 g	1.65.3494502.1
Security latch 45	-2	27.4 g	1.65.3494502.2
Security latch 45	-8	27.3 g	1.65.3494508.2
Security latch 45	12	30.3 g	1.65.3494512.1
Security latch 45	-12	30.3 g	1.65.3494512.2

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



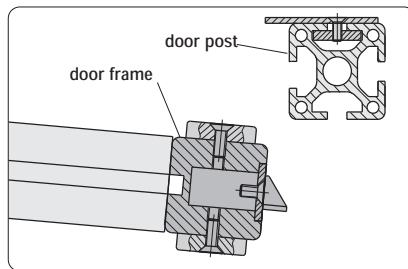
Door lock without lock insert and handles both sides



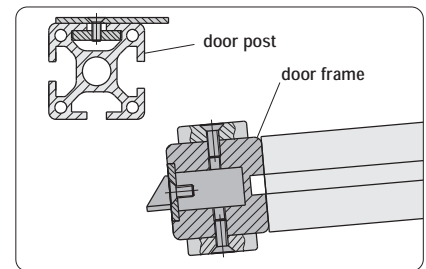
Door lock with cylinder lock and handles both sides



Door lock with lock insert, one handle and one fixed knob

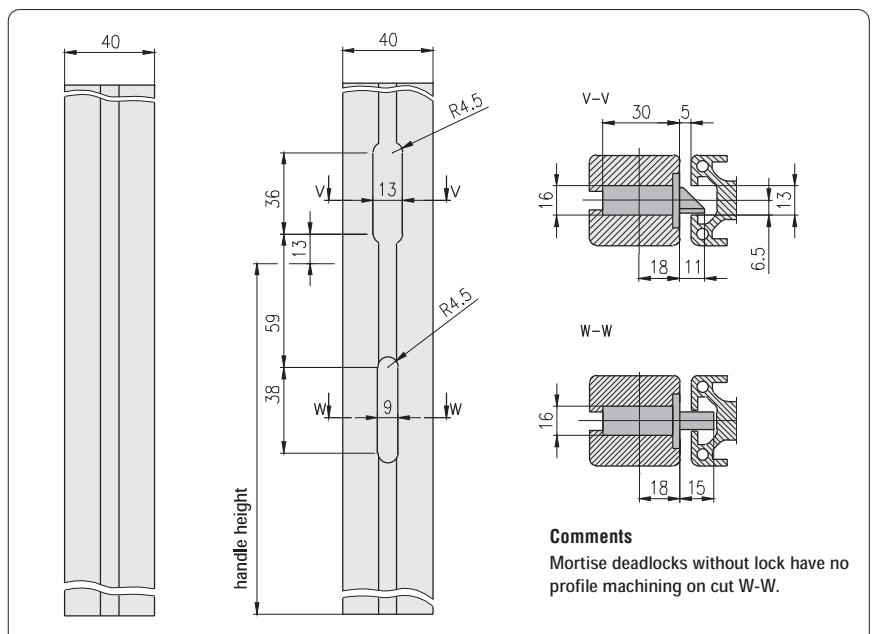


Mounting position left



Mounting position right

Profile machining for door post

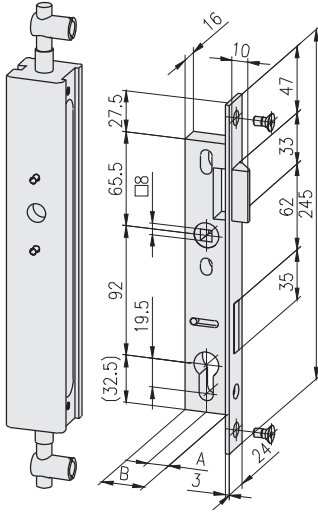


Comments

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

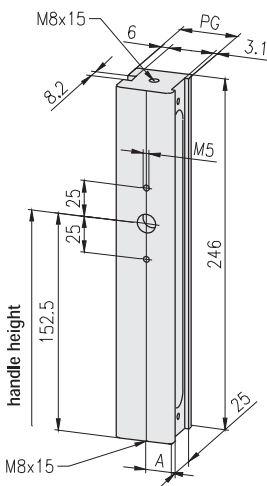


Description	Weight	Article-No.
Mortise deadlock installation set without lock, left, PG 40	1,191 g	1.65.4001L40
Mortise deadlock installation set without lock, right, PG 40	1,191 g	1.65.4001R40
Mortise deadlock installation set without lock, left, PG 45	1,352 g	1.65.4001L45
Mortise deadlock installation set without lock, right, PG 45	1,352 g	1.65.4001R45

Single parts

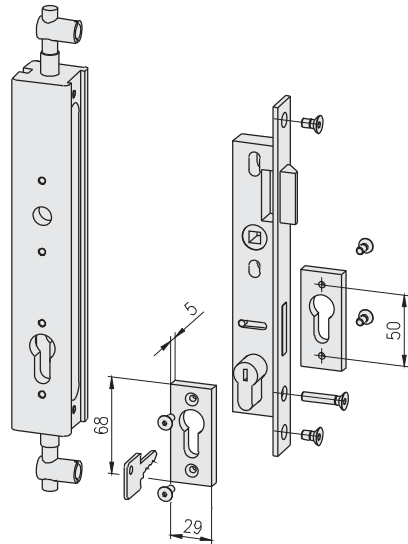
Description	Pcs.	Weight	Article-No.
Mortise deadlock case without lock PG 40	1	665 g	1.65.4101x40
Mortise deadlock case without lock PG 45	1	790 g	1.65.4101x45
Mortise deadlock left, PG 40	1	412 g	1.65.4211L40
Mortise deadlock right, PG 40	1	412 g	1.65.4211R40
Mortise deadlock left, PG 45	1	430 g	1.65.4211L45
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	1.21.4S1M8/11
Countersunk screw DIN 7991 - M5x12	2	2 g	0.63.D07991.05012

Mortise deadlock cases
without lock



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



Dimensions ↗ 276, drawing „Mortise deadlock installation sets without lock“

Comments

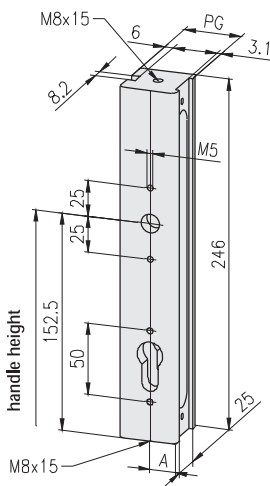
Drawing shows mounting position left, mirror image mounting position right

Description	Weight	Article-No.
Mortise deadlock installation set 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

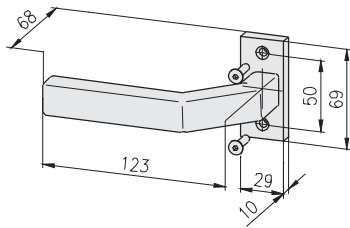
Single parts

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



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

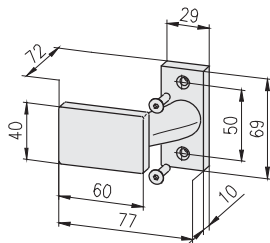
Door handle

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

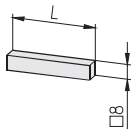
Comments

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

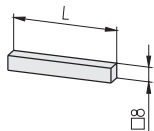
Push pins

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



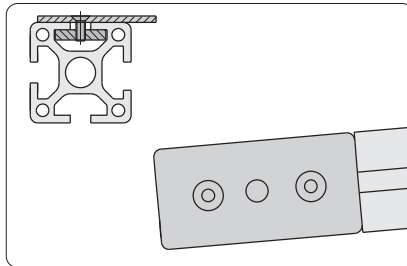
Bar lock with olive

Application

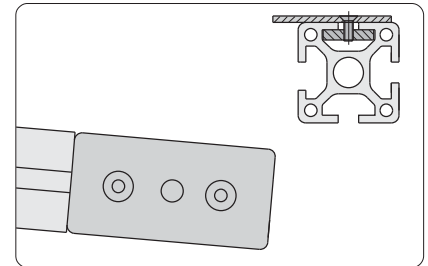
Lock for large doors made of profile 30×60 or 40×80, with pin arrest on top and bottom side



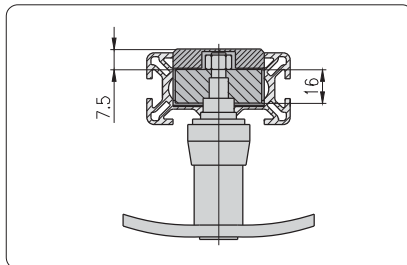
Bar lock with socket wrench



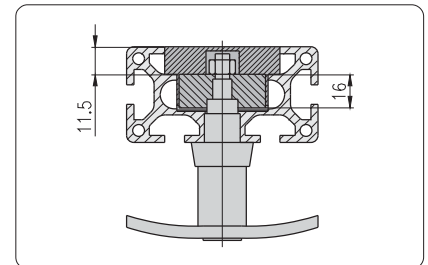
Mounting position right



Mounting position left

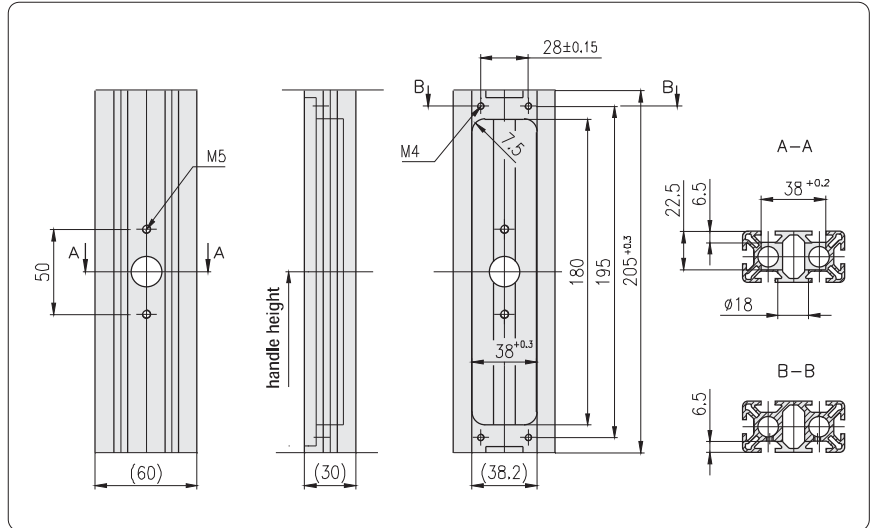
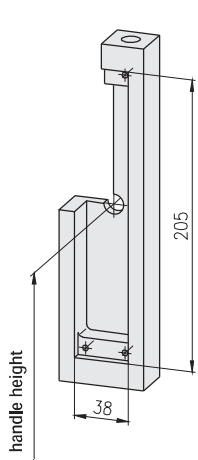


Mounting in profile 30×60



Mounting in profile 40×80

Profile machining 30x60
for bar lock



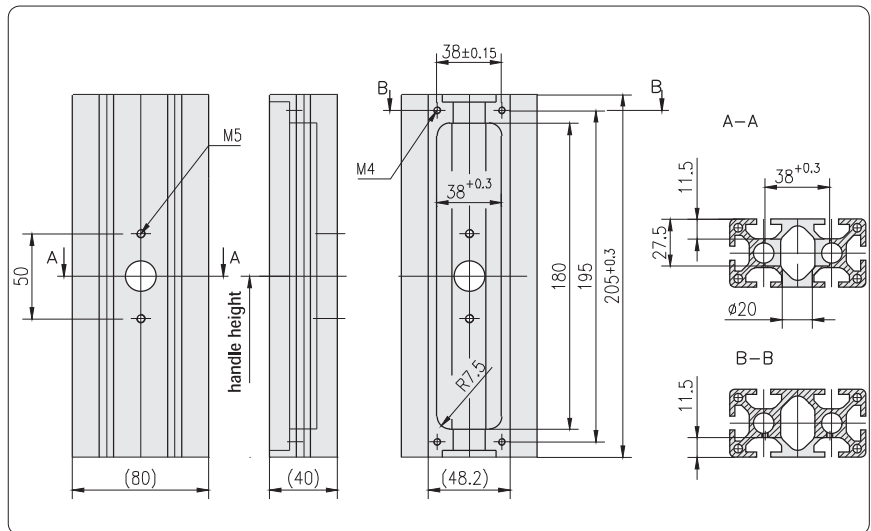
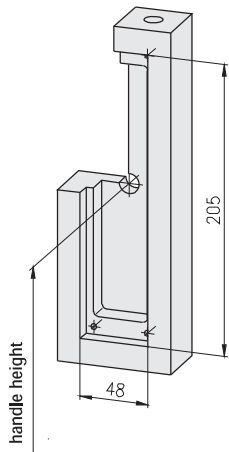
Description

Profile machining 30x60 for bar lock

Article-No.

1.65.5110

Profile machining 40x80
for bar lock



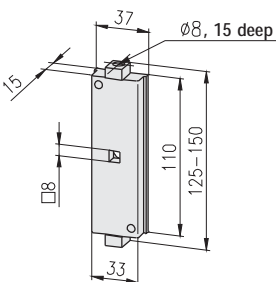
Description

Profile machining 40x80 for bar lock

Article-No.

1.65.5120

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

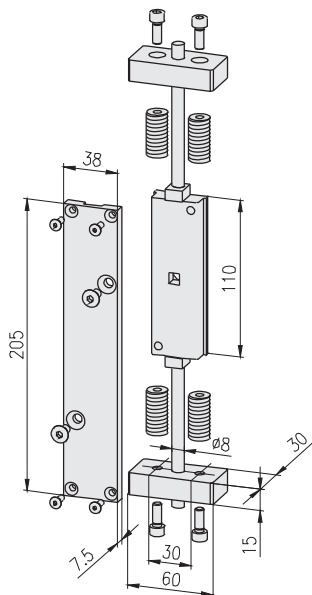
Bar locks

Technical data

cover plate: alu, natural anodised
 face plate: alu, natural anodised
 bar: steel, galvanised
 screws: steel, galvanised

Assembly accessories 30x60

for bar lock



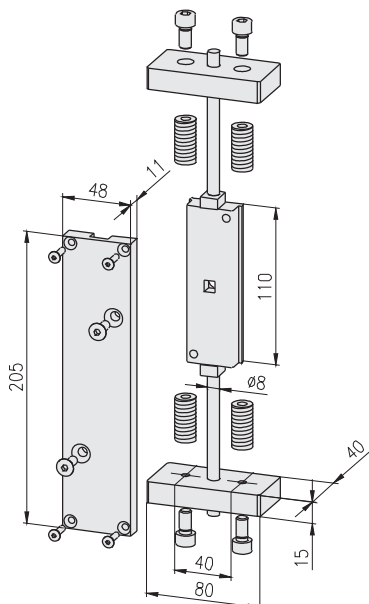
Description	Weight	Article-No.
Assembly accessories 30x60 for bar lock	590 g	1.65.5310

Single parts

Description	Pcs.	Weight	Article-No.
Cover plate 30x60	1	100 g	1.65.5311
Countersunk screw DIN 7991 - M4x12	4	1 g	0.63.D07991.04012
Countersunk screw DIN 7991 - M6x12	2	3 g	0.63.D07991.06012
Front plate 30x60	2	50 g	1.65.5312
Threaded insert M14/M6	4	22 g	1.35.1140615
Cap-screw DIN 912 - M6x16	4	5 g	0.63.D00912.06016
Bar, L1000	2	136 g	1.65.5313

Assembly accessories 40x80

for bar lock



Description	Weight	Article-No.
Assembly accessories 40x80 for bar lock	800 g	1.65.5320

Single parts

Description	Pcs.	Weight	Article-No.
Cover plate 40x80	1	225 g	1.65.5321
Countersunk screw DIN 7991 - M4x16	4	2 g	0.63.D07991.04016
Countersunk screw DIN 7991 - M6x16	2	4 g	0.63.D07991.06016
Front plate 40x80	2	90 g	1.65.5322
Threaded insert M14/M8	4	18 g	1.35.1140815
Cap-screw DIN 912 - M8x16	4	9 g	0.63.D00912.08016
Bar, L1000	2	136 g	1.65.5313

Olive installation set

for bar lock

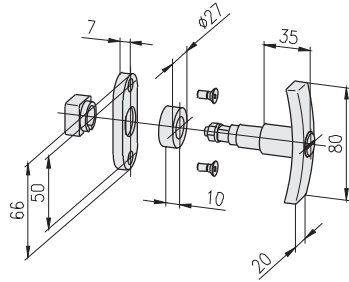
Technical data

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

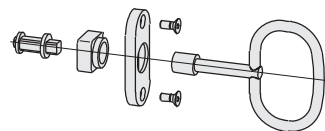
key: GD-Zn, galvanised

rosette: LM, natural anodised

key catch: PVC, grey

with square key

for bar lock



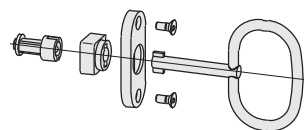
Description	Weight	Article-No.
Lock mounting set with square key for bar lock	73 g	1.65.5600

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

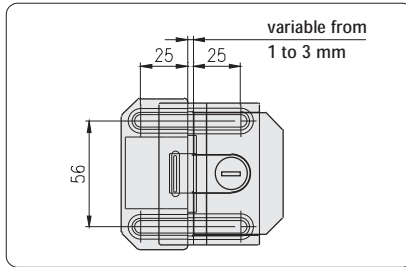
Description	Pcs.	Weight	Article-No.
Lock insert	1	16 g	1.65.5701
Key catch	1	3 g	1.65.5702
Rosette	1	8 g	1.65.5432
Double beard key ∅3	1	42 g	1.65.34789
Countersunk screw DIN 7991 - M5×12	2	2 g	0.63.D07991.05012

Latch locks

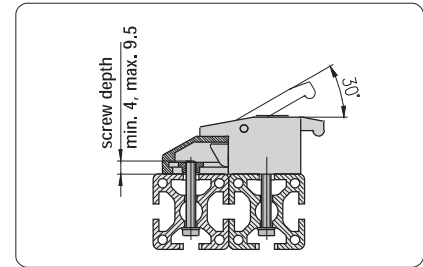


Application

Door lock with small jutout



Installation dimensions



Installation dimensions

Technical data

material:

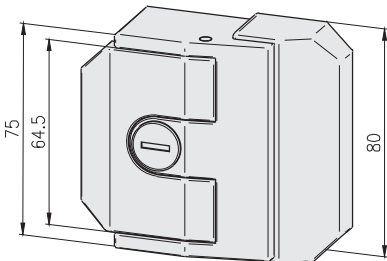
- capsule: GDZn black coated
- trap: GDZn rough
- nut: steel galvanised

Mounting elements

- cap-screw DIN 6913, M6
- washer DIN 433-6.4

Delivery unit

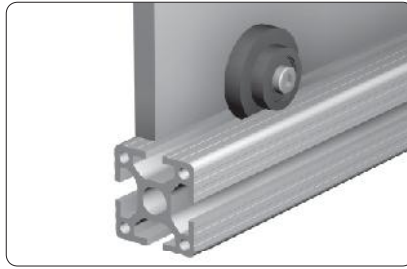
- latch lock
- 4 nuts M6
- 2 keys (by variant with lock)
- cover plug (by variant without lock)



Description

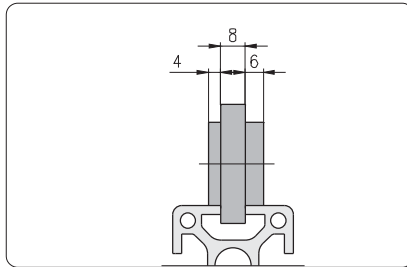
Description	Weight	Article-No.
Latch lock without lock	560 g	1.65.6010
Latch lock with lock, all keyed alike	560 g	1.65.6020
Latch lock with lock, keyed different	560 g	1.65.6030

Roller 39

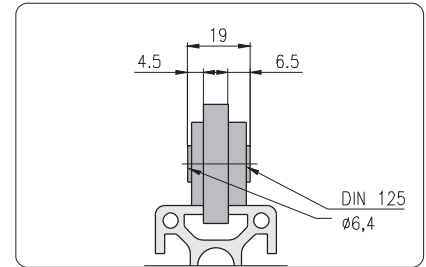


Application

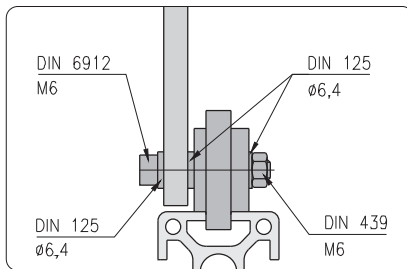
Roller for guiding in the 8 mm profile slot for sliding doors



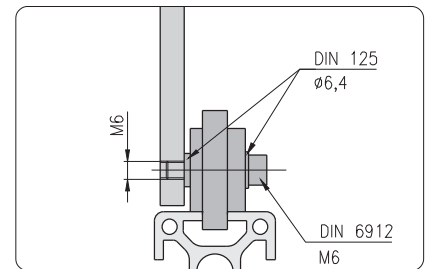
Asymmetric mount



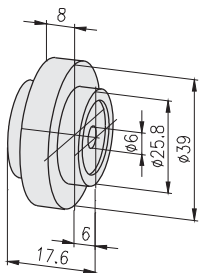
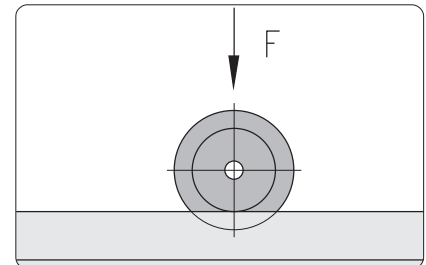
Mounting measure incl. washer DIN 125



Mounting with threaded pillar



Mounting with thread in panel element



Technical data

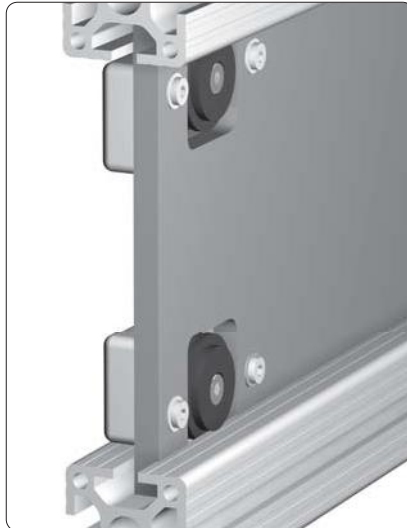
material: PA-GF
 colour: black
 max. static load: F = 150 N

Comments

2 deep grooved ball bearings with 2 cover discs

Description	Weight	Article-No.
Roller 39	32 g	1.66.1395

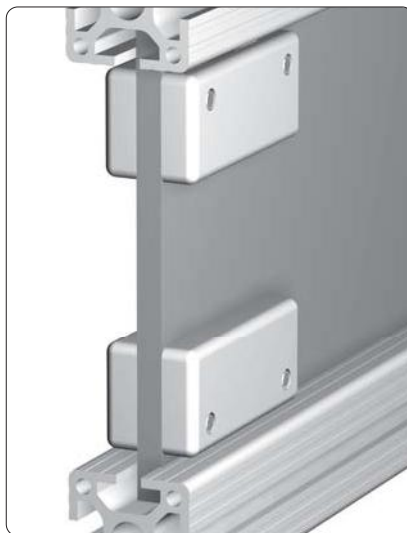
Roller fastening sets
type A



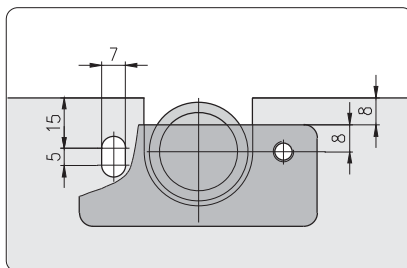
Roller fastening set type A, one-sided

Application

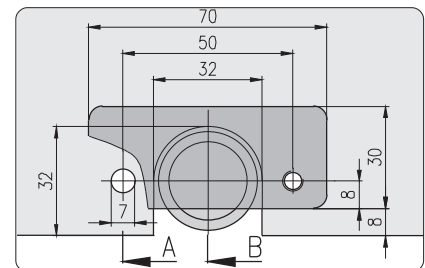
The roller fastening set allows the mounting of the roller into the panel element. Thus the panel element fits in the slot and fills the frame completely



Roller fastening set type A, double-sided



Mounting on top side

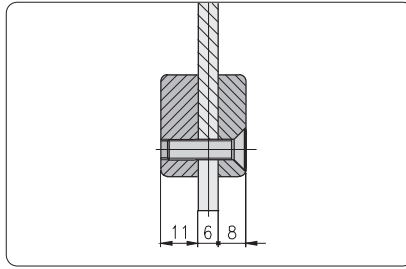


Mounting on bottom side

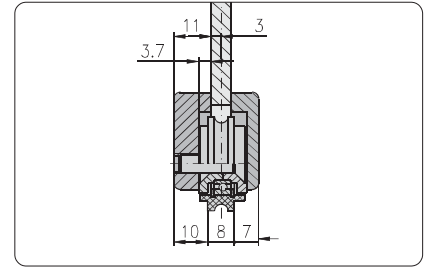
Comments

The elongated hole in the panel element allows the adjustment of the height tolerance

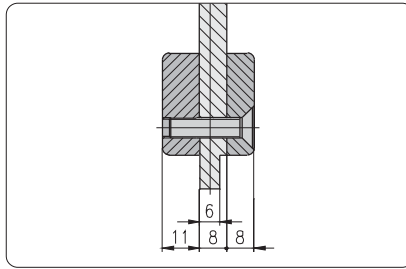
Roller fastening sets
type A



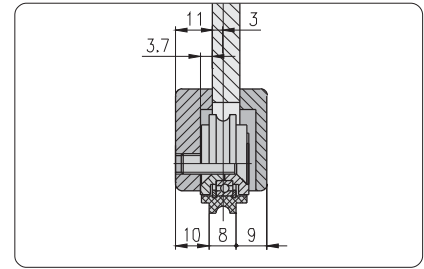
Panel element 6 mm
View A - A



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

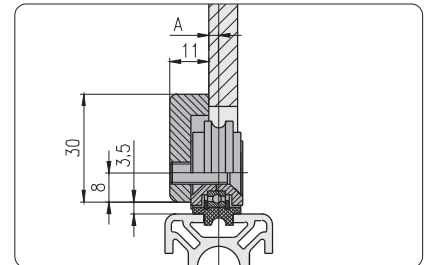
Roller fastening sets type B



Guidance in profile slot

Application

The roller fastening set allows the mounting of the roller into the panel element



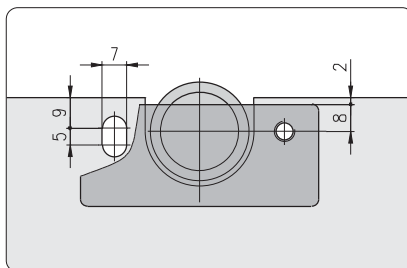
Guidance in twin track guide

Comments

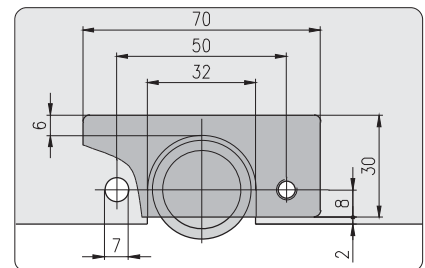
Mounting position of roller optional

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

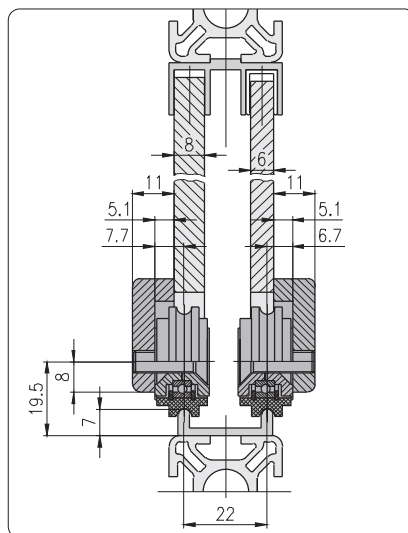


Application

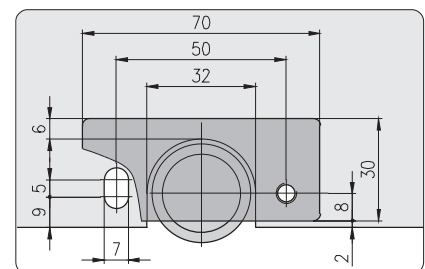
Guidance of sliding door
 on top: sliding profile 30×14
 on bottom: twin track guide with profile

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

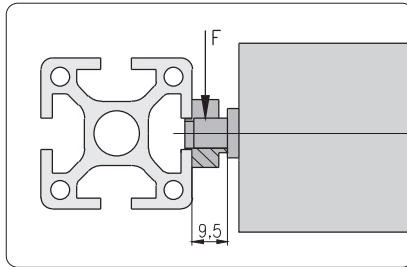
Description	Pcs.	Weight	Article-No.
Roller bracket type B	1	21.0 g	1.66.5399
Roller 29	1	12.0 g	1.66.2290
Countersunk screw DIN 7991 - M6×20	1	4.5 g	0.63.D07991.06020
Cap-screw DIN 6912 - M6×20	2	5.0 g	0.63.D06912.06020
Washer DIN 6340 - 6.4	2	4.0 g	0.62.D06340.06,4



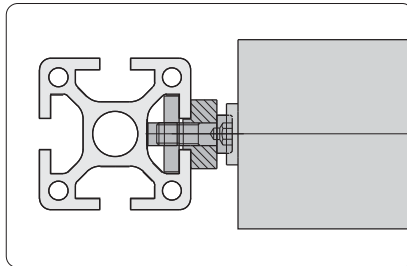
Mounting adaptor for roller



Application
For fastening of rollers

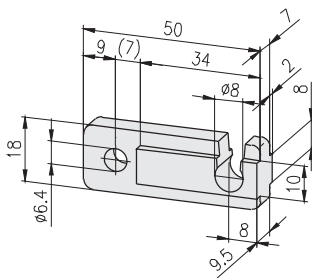


Comments
Simple mounting, enables installation without dismounting of frame
 $F_{max} = 1,000 \text{ N}$



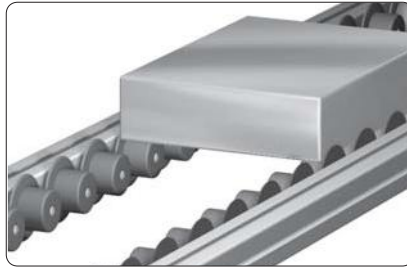
Technical data
material: PA, black

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	Weight	Article-No.
Mounting adaptor for roller Ø8	9 g	1.66.70808

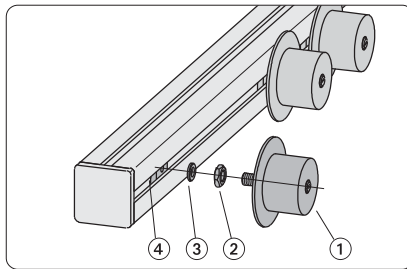
Edge roller



Application

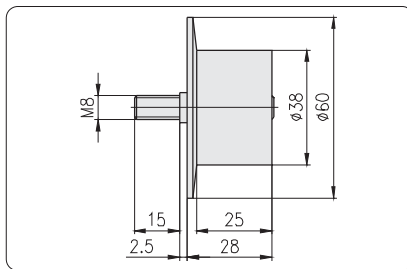
Roller conveyors for transporting boxes and containers

- 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

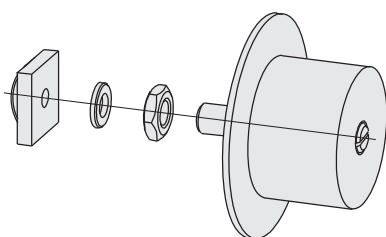
bearings: steel or stainlessball bearings on galvanised steel bolt

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

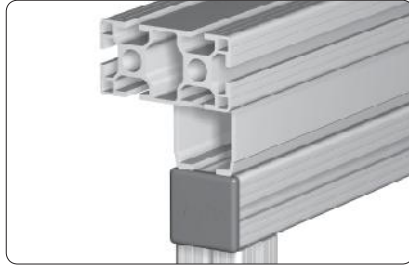
Weight

51.0 g

Article-No.

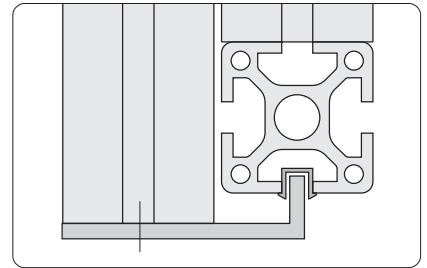
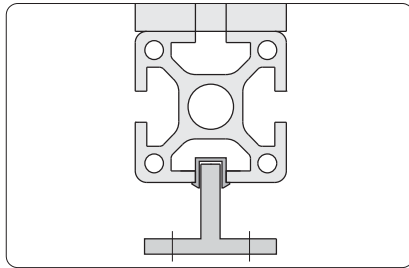
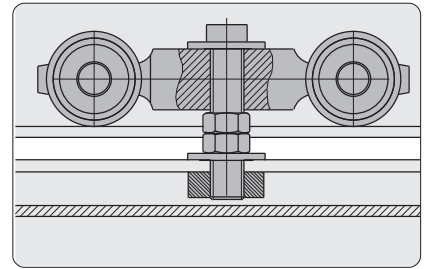
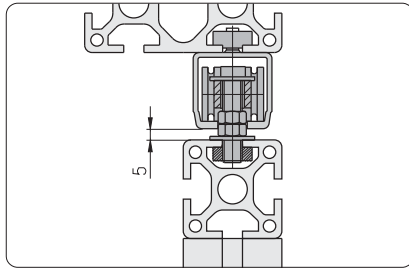
1.66.7523860

**Roller fitting
for suspended doors**



Application

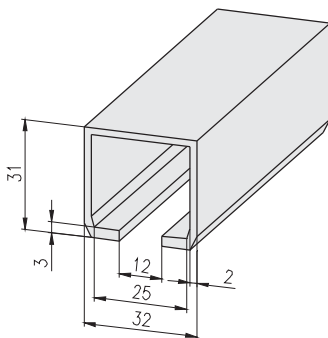
Sliding suspended doors made of profile frames for large openings and heavy doors



Guidance for mounting on the floor


Guidance for mounting on the profile frame

**Alu C-track
for suspended doors**

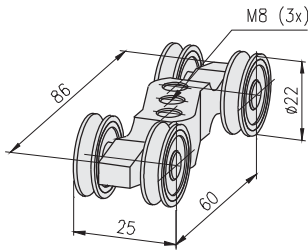


Technical data

bar length: 6 m
material: aluminium
surface: natural anodised

Description		Weight	Article-No.
Alu C-track	bar	3.6 kg	1.19.14532.60
 Alu C-track	cut to length	0.6 kg	1.19.14532-A00A00/... /... = length in mm

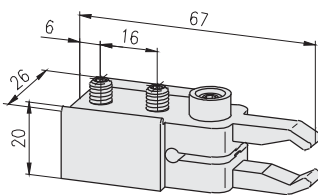
Runner
for suspended door



Technical data
 material: zinc diecasting
 surface: bare
 4 ball bearing rollers
 max. load capacity: 70 kg

Description	Weight	Article-No.
Runner for suspended door	91 g	1.66.8020

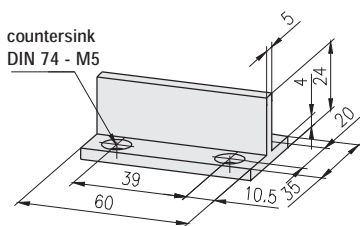
Stopper
for suspended door



Technical data
 material: plastic
 colour: grey

Description	Weight	Article-No.
Stopper for suspended door	21 g	1.66.8030

Bottom guide
for suspended door

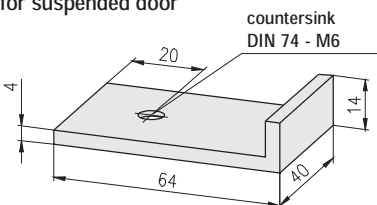


Technical data
 material: plastic
 colour: grey

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

Description	Weight	Article-No.
Bottom guide for suspended door	9 g	1.66.8040

Frame guide
for suspended door

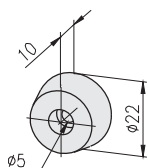


Technical data
 material: aluminium
 surface: natural anodised

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

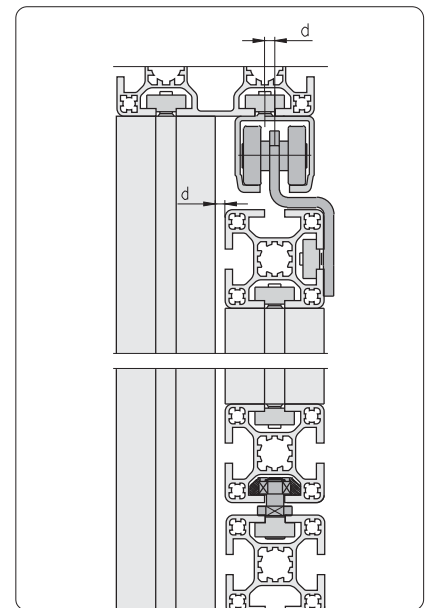
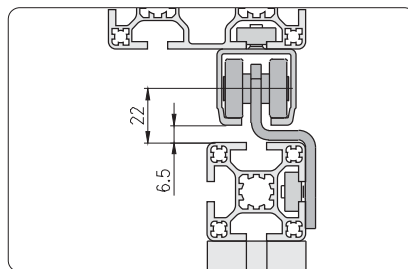
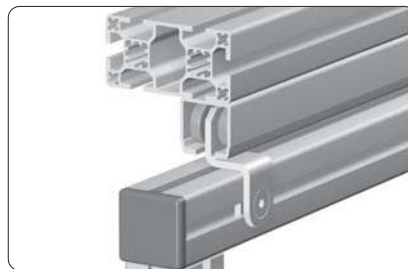
Description	Weight	Article-No.
Rubber door stop for suspended door	3 g	1.66.8060

**Runner
for sliding suspended doors**



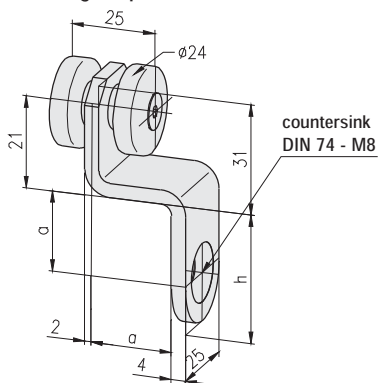
Application

Sliding suspended doors made of profile frames for large openings and heavy doors



Distance d = mismatch of Alu C-track

**Runner
for sliding suspended door**



Technical data

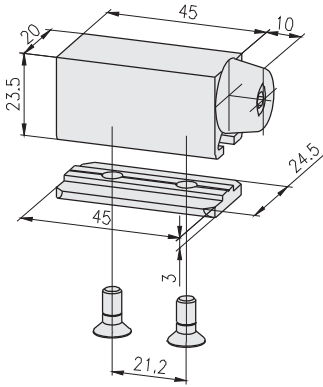
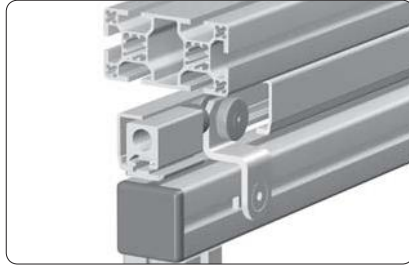
- material:
 • strap: VA
 • bolt: C45 K
 • distance bush: AlMg3
 max. load capacity: 100 kg

Comments

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

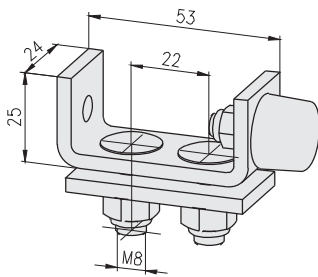
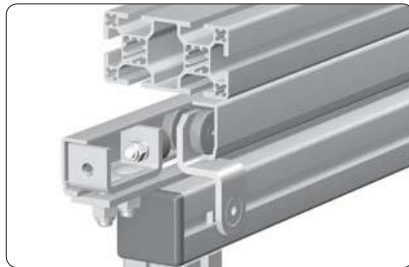
Description	a	b	h	Weight	Article-No.
Runner for sliding susp. door, PG 40	21.0	20.0	38.0	102 g	1.66.81140
Runner for sliding susp. door, PG 45	23.5	22.5	43.0	114 g	1.66.81145

Stopper Type 1
for sliding suspended door



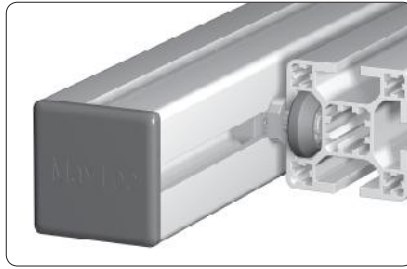
Description	Weight	Article-No.
Stopper Type 1 for sliding suspended door, complete	63 g	1.66.8201055

Stopper Type 2
for sliding suspended door



Description	Weight	Article-No.
Stopper Type 2 for sliding suspended door, complete	160 g	1.66.8202065

Slot rollers

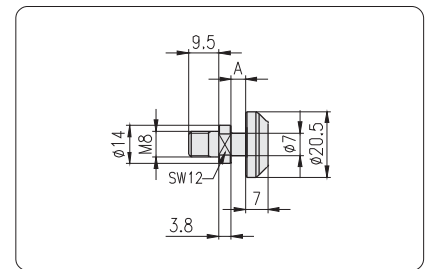
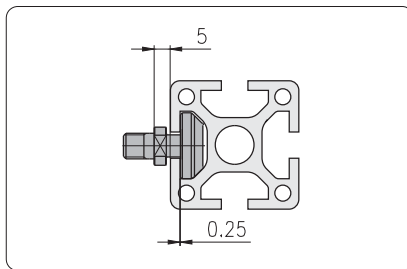
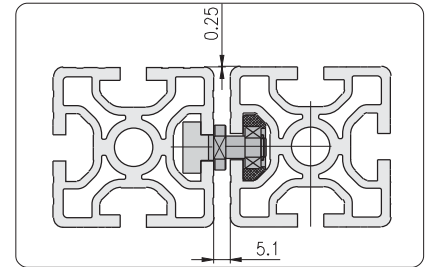
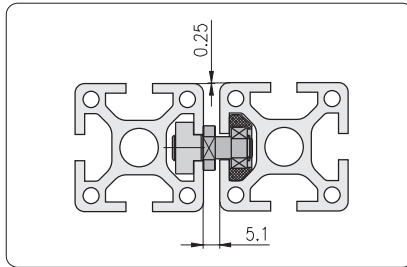


Application

For light running sliding doors

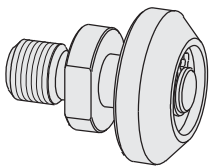
Technical data

material: PETP
 colour: black
 max. static load: 8 kg/roller

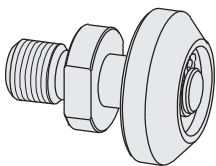


Fastening elements (optional)

- 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



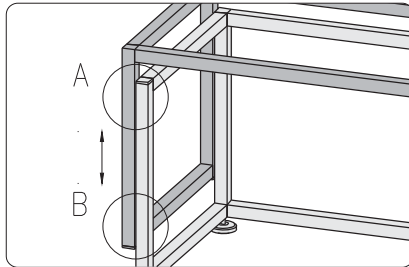
Description	A	Weight	Article-No.
Slot roller E4	5.45	24 g	1.67.42E4M8

Guidance system

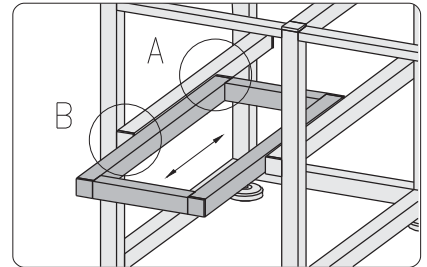


Application

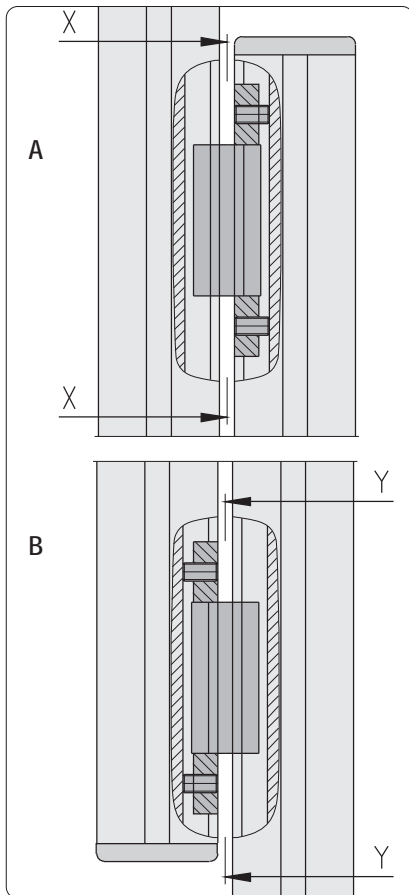
Slideway with sliding blocks e.g. for lifting tables and drawers



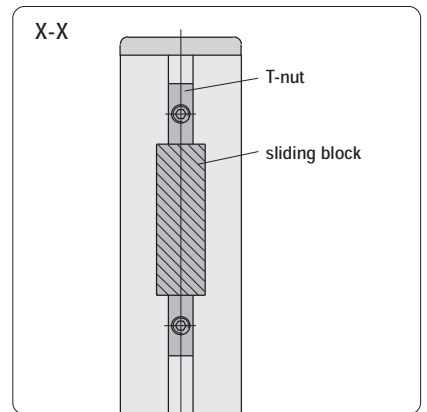
Slideway for lifting table



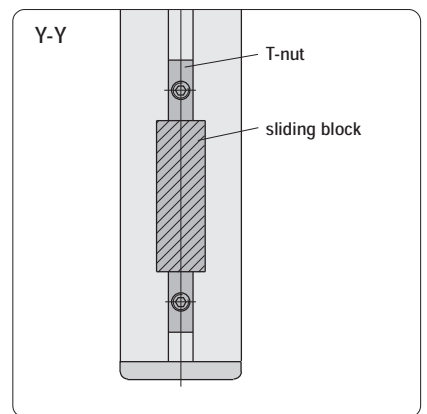
Slideway for drawer



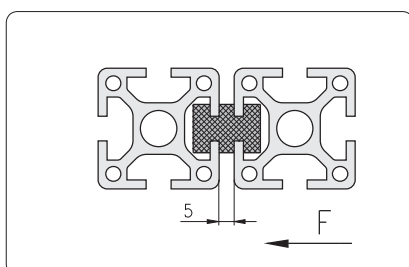
Details "A" and "B"



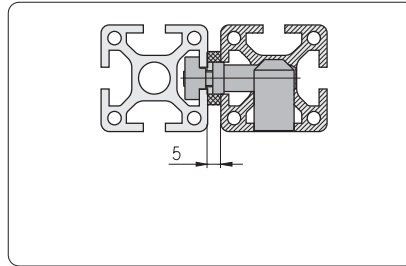
View "X"



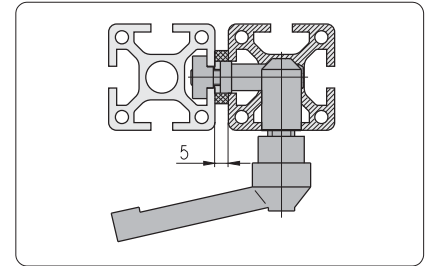
View "Y"



Clamping
for guidance system



Clamping with setscrew



Clamping with clamping lever

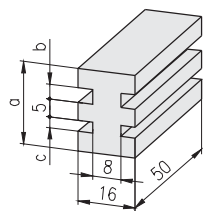
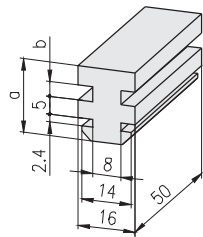
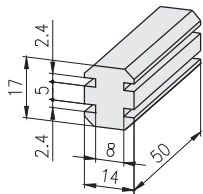
Single parts for clamping

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-type, parallel, M8	30×30	1.21.3/4S5M8/7
Connector, screw-type, parallel, M8	40×40	1.21.4/5S5M8/11
Connector, screw-type, parallel, M8	45×45	1.21.45/5S5M8/11
Connector, screw-type, parallel, M8	50×50	1.21.5/6S5M8/11
Connector, screw-type, 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

Description	F	Weight	Article-No.
Sliding block F	1,500 N	11 g	1.67.F2F2

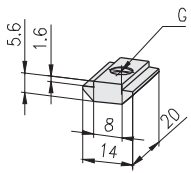
Description	a	b	F	Weight	Article-No.
Sliding block F/E3	19.6	3.2	1,500 N	15 g	1.67.F2E3
Sliding block F/E4	20.6	4.2	1,500 N	15 g	1.67.F2E4

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

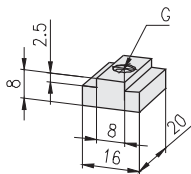
T-nut sliding blocks

Technical data

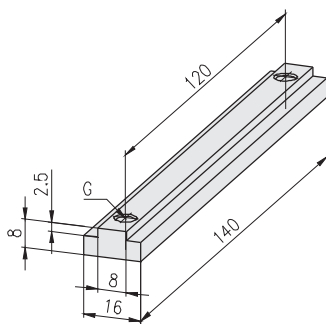
material: PA6G oil (murlubric or similar)
 colour: black



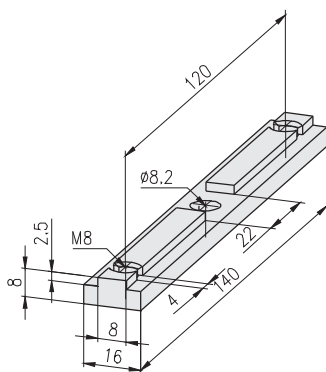
Description	G	Weight	Article-No.
T-nut sliding block F M6	M6	1.5 g	1.67.FM6
T-nut sliding block F M8	M8	1.5 g	1.67.FM8



Description	G	Weight	Article-No.
T-nut sliding block E M6	M6	3.0 g	1.67.EM6
T-nut sliding block E M8	M8	3.0 g	1.67.EM8



Description	G	Weight	Article-No.
T-nut sliding block E 2×M6	2×M6	17.0 g	1.67.E2M61400
T-nut sliding block E 2×M8	2×M8	16.6 g	1.67.E2M81400

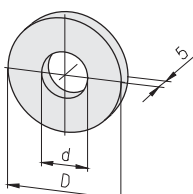


Description	Weight	Article-No.
T-nut sliding block E 2×M8 for Eco-Slide with clamping lever	15.6 g	1.67.E2M81408

Distance washer

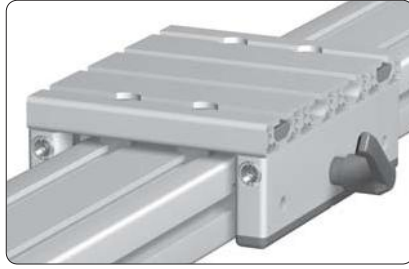
Technical data

material: PVC
 colour: grey



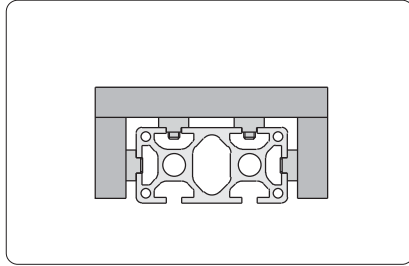
Description	D	d	Weight	Article-No.
Distance washer	22	8.3	3.0 g	1.67.2002
Distance washer	28	13.0	3.0 g	1.67.2008

Eco-Slides

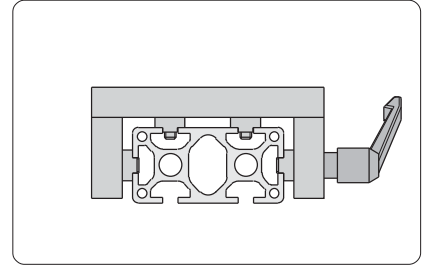


Application

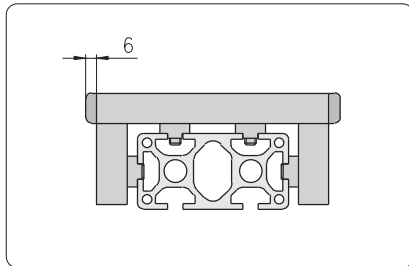
Sliding carriage in variable, simple and rugged design with low sliding resistance
High tolerance adjustment for width and height



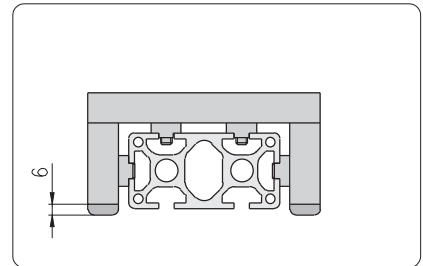
without clamping lever



with clamping lever

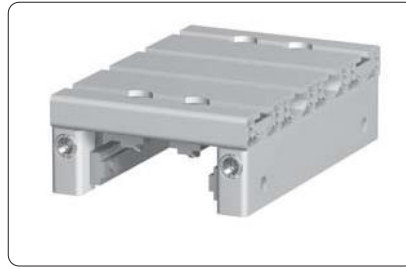


with side cover caps

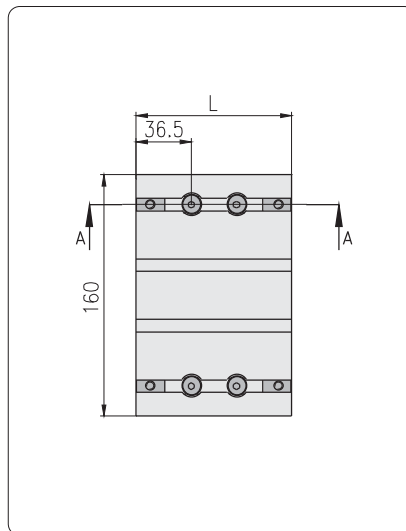
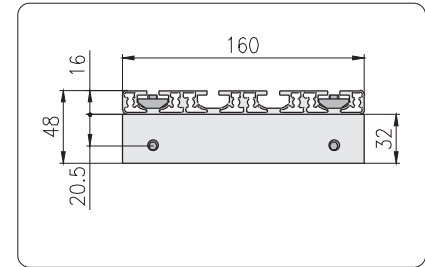
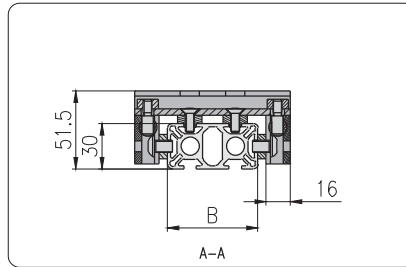


with lower cover caps

Eco-Slide
for profile group 30
F-slot



Technical data
loading capacity: max. 1,000 N



Width of profile

30 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 30 - 30F		73	510 g	1.67.S101.030030F
Eco-Slide, PG 30 - 30F, with clamping lever		73	549 g	1.67.S102.030030F

60 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 30 - 60F		103	600 g	1.67.S101.030060F
Eco-Slide, PG 30 - 60F, with clamping lever		103	639 g	1.67.S102.030060F

100 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 30 - 100F		143	720 g	1.67.S101.030100F
Eco-Slide, PG 30 - 100F, with clamping lever		143	759 g	1.67.S102.030100F

150 mm

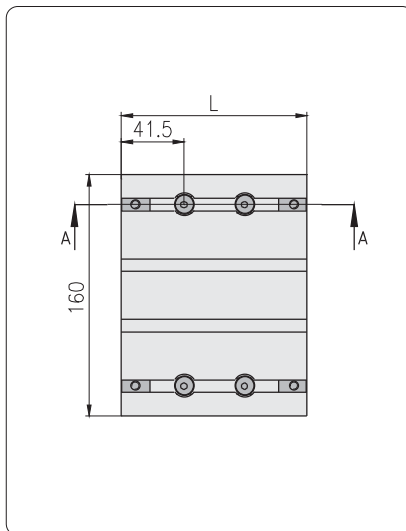
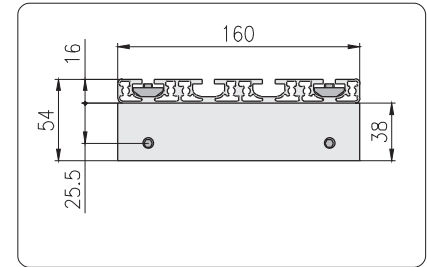
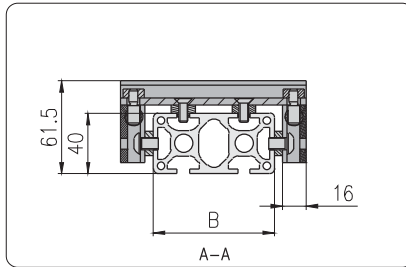
Description	B	L	Weight	Article-No.
Eco-Slide, PG 30 - 150F		193	810 g	1.67.S101.030150F
Eco-Slide, PG 30 - 150F, with clamping lever		193	849 g	1.67.S102.030150F

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

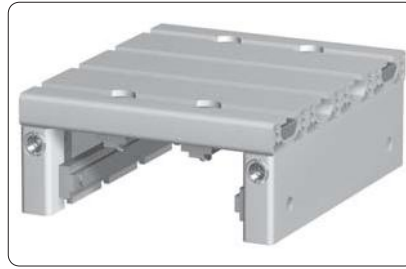
120 mm

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

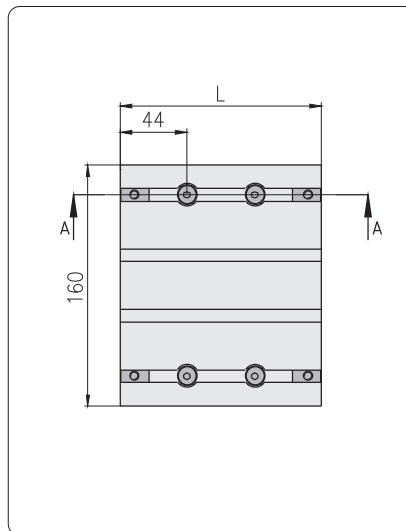
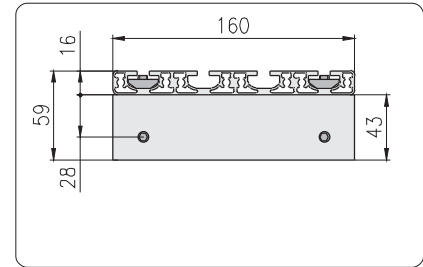
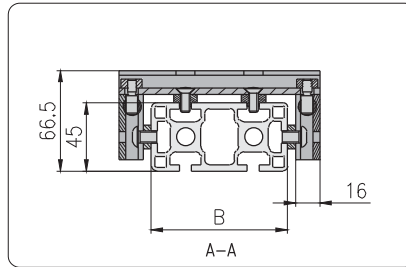
160 mm

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

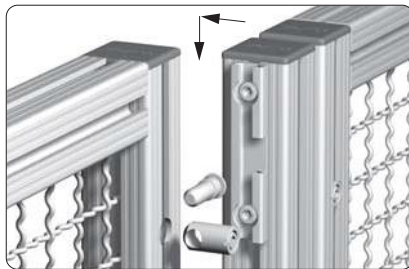
Description	B	L	Weight	Article-No.
Eco-Slide, PG 45 - 90E		133	710 g	1.67.S101.045090E
Eco-Slide, PG 45 - 90E, with clamping lever		133	749 g	1.67.S102.045090E

Hanging bracket

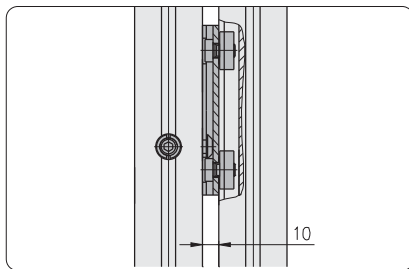


Application

Element for mounting unhingeable fence elements



The connector cross bushing can be fixed at the front or back

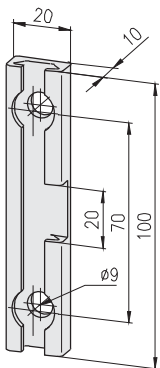


Technical data

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

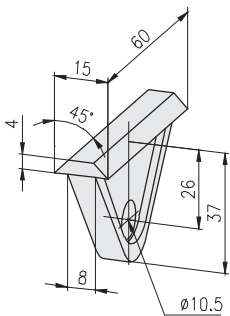


Application

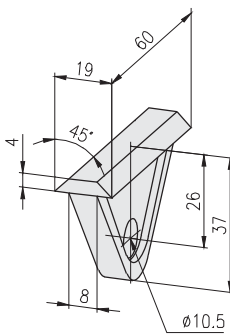
Element for tool suspension in MayTec-profile

Technical data

material: PA-GF
 colour: black
 max. static load: 300 N



Description	Weight	Article-No.
Suspended glider F	10 g	1.69.F010

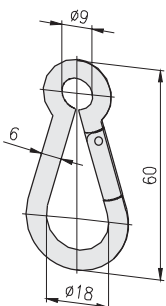


Description	Weight	Article-No.
Suspended glider E	10 g	1.69.E010

Carabine swivel

Technical data

material: steel
 surface: galvanised



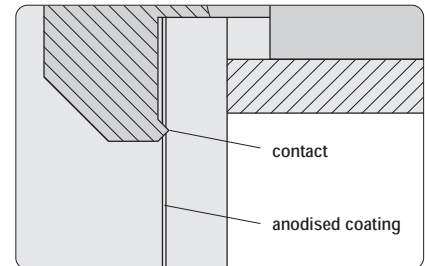
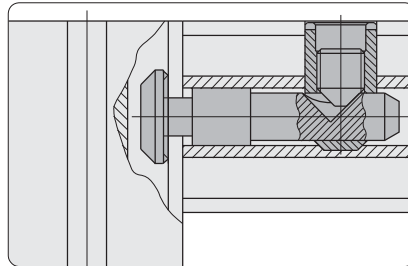
Description	Weight	Article-No.
Carabine swivel 60x6	27 g	1.69.1606

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

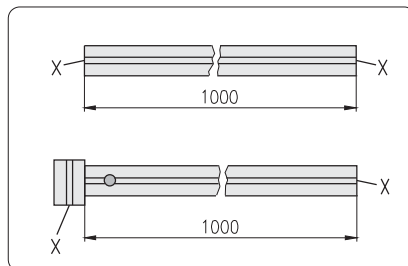


Comments

Suitable to equalise charge accumulations
Not suitable for higher currents

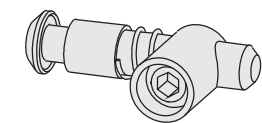
Technical data

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



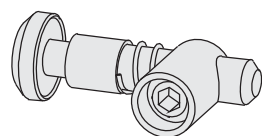
Resistance values with DC current of more than 200 mA with 1.0 m alu-profile

without connector	0.11 Ω
with 1 standard connector	> 2 MΩ
with 1 univ. grounding connector	0.11 Ω



Description

Description	Article-No.
Connector, universal, grounding, PG 20	1.21.2FOE
Connector, universal, grounding, PG 30	1.21.3FOE
Connector, universal, grounding, PG 40	1.21.4FOE
Connector, universal, grounding, PG 45	1.21.45FOE
Connector, universal, grounding, PG 50	1.21.5FOE
Connector, universal, grounding, PG 60	1.21.6FOE



Description

Description	Article-No.
Connector, universal, grounding, PG 20	1.21.2EOE
Connector, universal, grounding, PG 30	1.21.3EOE
Connector, universal, grounding, PG 40	1.21.4EOE
Connector, universal, grounding, PG 45	1.21.45EOE
Connector, universal, grounding, PG 50	1.21.5EOE
Connector, universal, grounding, PG 60	1.21.6EOE

Comments

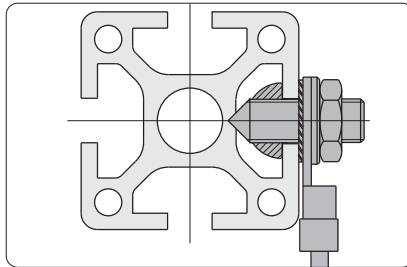
More grounding connectors
➔ Connectors 1.2A

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	Weight	Article-No.
Ground connection F, M6	74 g	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

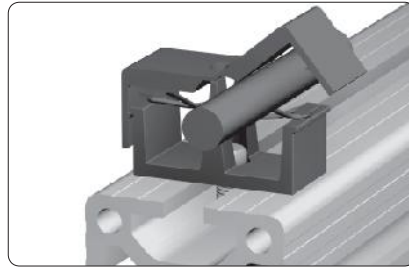
Description	Weight	Article-No.
Ground connection E, M8	146 g	1.70.10EM8



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

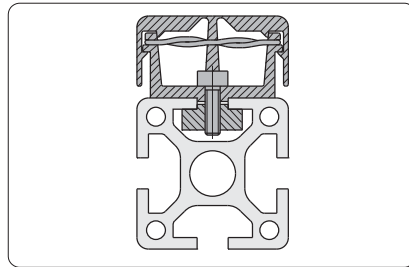


Application

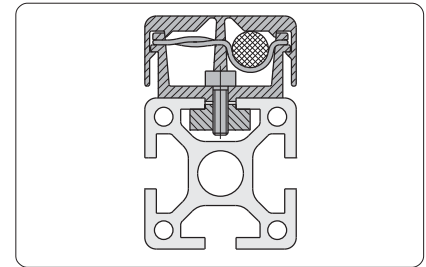
Fixing element for cables and hoses up to Ø12 mm

Technical data

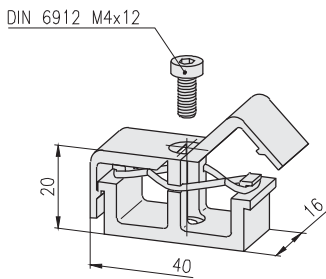
material: PA
colour: black



Mounting on profiles



Ø_{max} = 12 mm for cables and hoses



Fastening elements for E-slot

cap-screw DIN 6912 M4x12

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

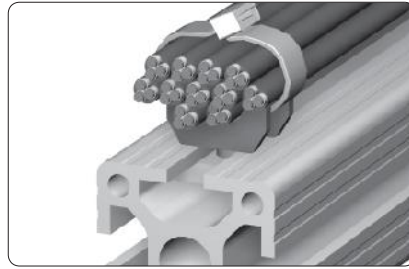
Weight

8 g

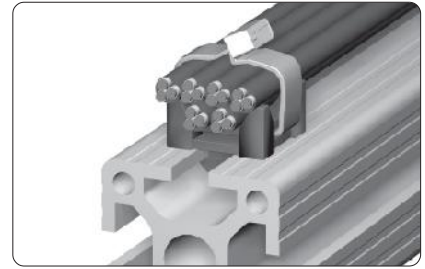
Article-No.

1.71.1010

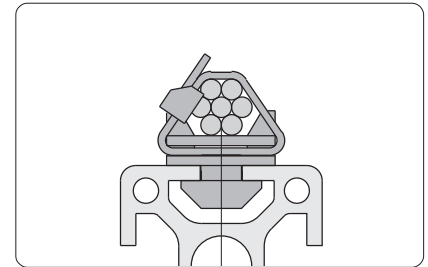
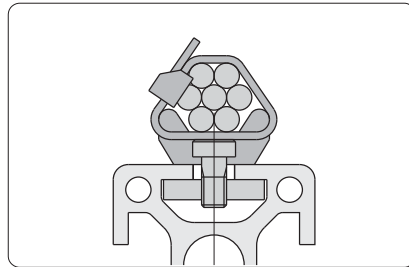
Block for cable binder,
Cross-blocks for cable binder
front-sided insertion,
Cable binder



Block for cable binder



Cross-block for cable binder

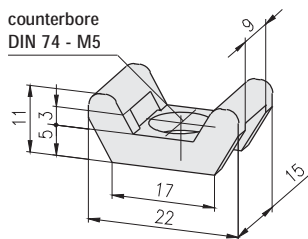


front-sided insertion

Technical data
material: PA
colour: black

Application
Element for fixing single cables and hoses
or large quantities

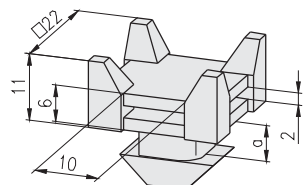
Block for cable binder



Comments
Counterbore DIN 74 - M5 for
cap-screw DIN 6912 - M5

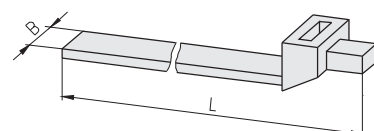
Description	Weight	Article-No.
Block for cable binder	1.6 g	1.71.2010

Cross-blocks for cable binder
front-sided insertion



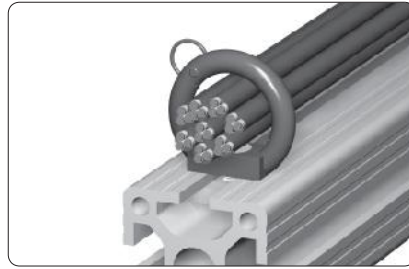
Description	a	Weight	Article-No.
Cross-block for cable binder F	2.2	4.0 g	1.71.2020F2
Cross-block for cable binder E3	3.0	4.0 g	1.71.2020E3
Cross-block for cable binder E4	4.0	4.0 g	1.71.2020E4

Cable binder
detachable



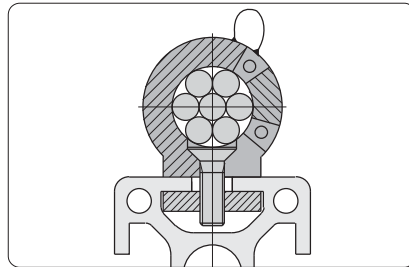
Description	BxL	Weight	Article-No.
Cable binder, detachable	4.8x145	0.7 g	1.71.2048145
Cable binder, detachable	9.0x140	1.9 g	1.71.2090140

Installation rings



Application

Element for fixing large quantities of cables and hoses
The rings can be opened for insertion

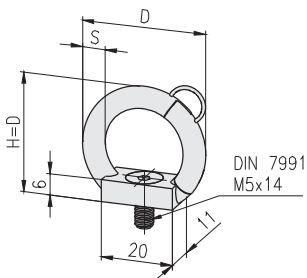


Technical data

material: PA-GF
colour: black

Comments

Delivery unit incl. screw



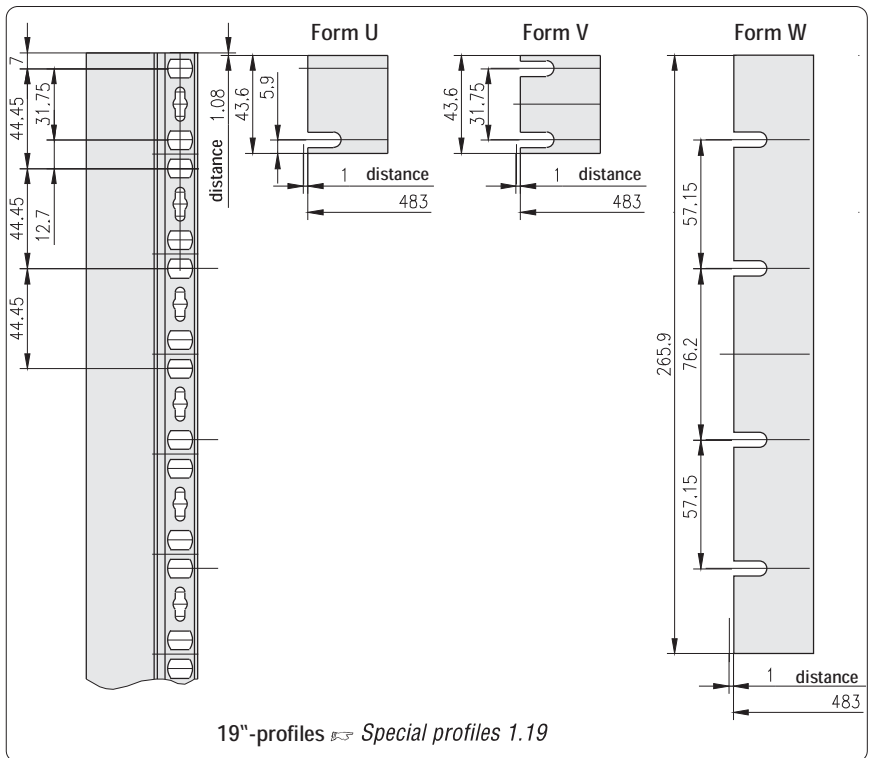
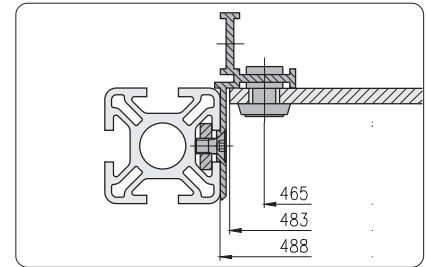
Description	D	s	Weight	Article-No.
Installation ring	Ø28.5	6.0	5 g	1.71.30285
Installation ring	Ø36.5	6.0	6 g	1.71.30365
Installation ring	Ø47.5	7.5	8 g	1.71.30475
Installation ring	Ø56.5	7.5	9 g	1.71.30565

Mounting set for 19" profile

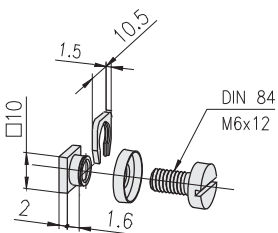


Application

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

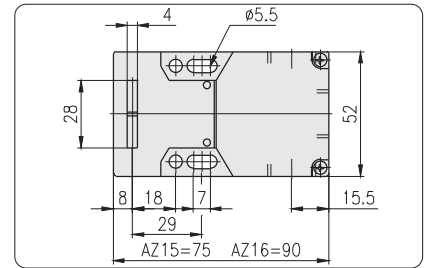
Weight

70 g

Article-No.

1.72.2010.10

Safety switches



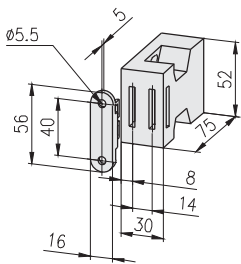
Application

Safety switch for the electrical interlocking of swinging or sliding doors

Comments

Smallest possible radius of operation of 150 mm

with 1 safety contact



Technical data

Schmersal: Type AZ 15 zvrk-M16-2254
IP 67 230V 4A

Description

Safety switch with 1 safety contact
with 5 N - lock-in position

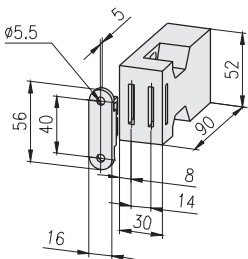
Weight

100 g

Article-No.

1.73.3010

with 1 safety contact and 1 alarm contact



Technical data

Schmersal: Type AZ 16 zvrk-M16-2254
IP 67 230V 4A

Description

Safety switch with 1 safety contact and 1 alarm contact
with 5 N - lock-in position

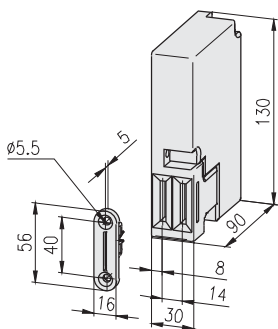
Weight

125 g

Article-No.

1.73.3020

with 1 closing and 1 positioning monitoring



Technical data

Schmersal: Type AZM161sk - 33rk-24V-M16
IP 65

Comments

Locking mechanism by spring
Releasing by solenoid
(closed-circuit system)
24V electrical potential of coil

Description

Safety switch with 1 closing and 1 positioning monitoring

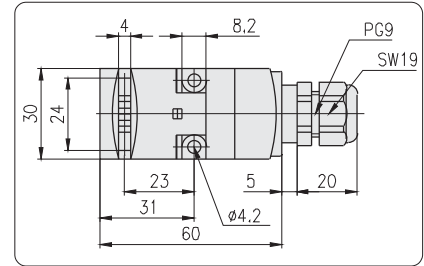
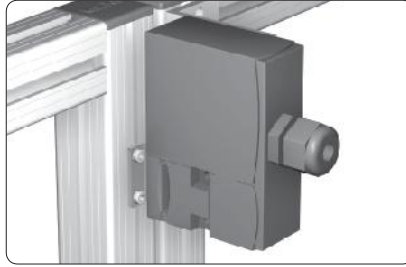
Weight

480 g

Article-No.

1.73.3030

**Safety switches
AZ 17**



Application

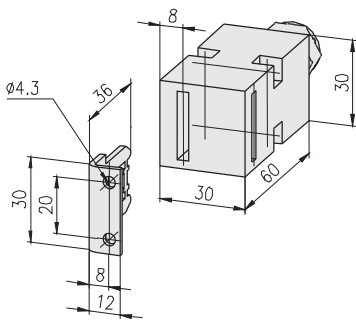
Safety switch for the electrical interlocking of swinging or sliding doors

Technical data

Schmersal: Type AZ 17
4A / 230 VAC IP 67

Comments

Especially suitable for cramped mounting spaces



Description

Safety switch AZ 17-11 zk
with 1 positive-break safety contact
1 no contact

Weight

90 g

Article-No.

1.73.3111

Safety switch AZ 17-02 zk
with 2 positive-break safety contacts

90 g

1.73.3112

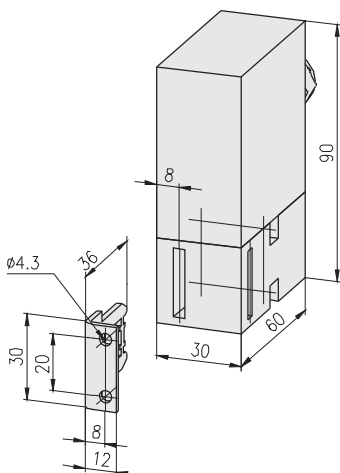
**Guard locking devices
AZM 170**

Technical data

Schmersal: Type AZM 170
4A / 230 VAC IP 67

Comments

Locking mechanism by spring
Releasing by solenoid
(closed-circuit system)



Description

Guard locking device AZM 170-11 zk - 024
with 1 positive-break safety contact
1 no contact
24V electrical potential of coil

Weight

300 g

Article-No.

1.73.3121

Guard locking device AZM 170-02 zk - 024
with 2 positive-break safety contacts
24V electrical potential of coil

300 g

1.73.3122

Comments

Locking mechanism by solenoid
Releasing by spring
(working current principle)

Description

Guard locking device AZM 170-11 zka
with 1 positive-break safety contact
1 no contact

Weight

300 g

Article-No.

1.73.3131

Guard locking device AZM 170-02 zka
with 2 positive-break safety contacts

300 g

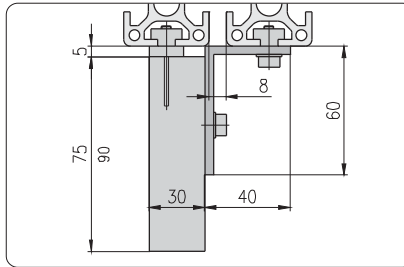
1.73.3132

**Safety interlocking-mountings
for swinging door**



Application

Mounting element for electrical interlocking switches



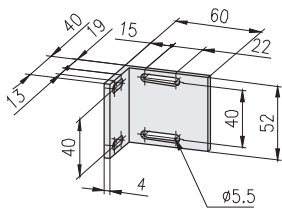
Comments

Assembly on
profile 30x30
profile 40x40
profile 40x80

Technical data

material: aluminium
surface: natural anodised

for swinging door



Description

Safety interlocking-mounting
for swinging door

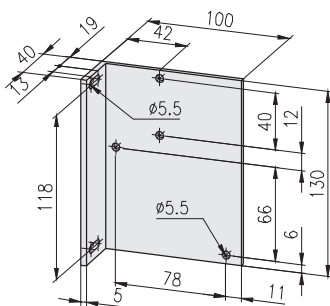
Weight

46 g

Article-No.

1.73.4010

with lock for swinging door



Description

Safety interlocking-mounting
with lock for swinging door

Weight

183 g

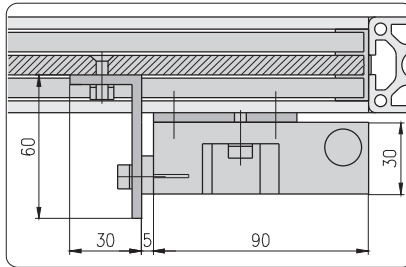
Article-No.

1.73.4020

Safety interlocking-mountings for sliding door



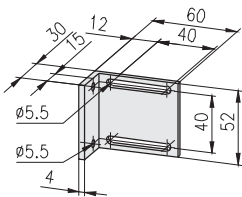
Application
Mounting element for the electrical interlocking of sliding doors



Comments
Assembly on profile 30x30
profile 40x40
profile 40x80

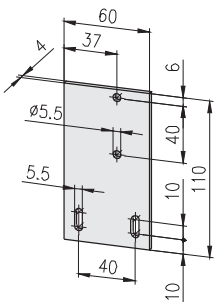
Technical data
material: aluminium
surface: natural anodised

Contact bracket-mounting for sliding door



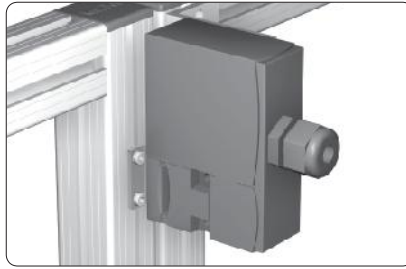
Description	Weight	Article-No.
Contact bracket-mounting for sliding door	41 g	1.73.4030

Safety interlocking-mounting for sliding door



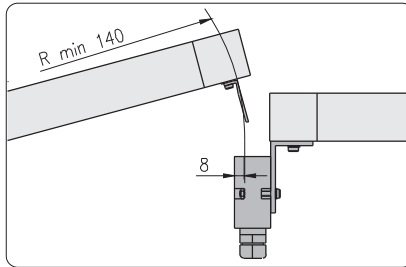
Description	Weight	Article-No.
Safety interlocking-mounting for sliding door	70 g	1.73.4040

**Safety interlocking-mountings
AZ 17
for swinging door**

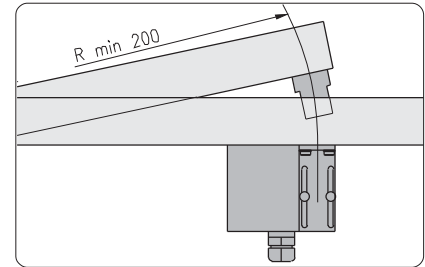


Application

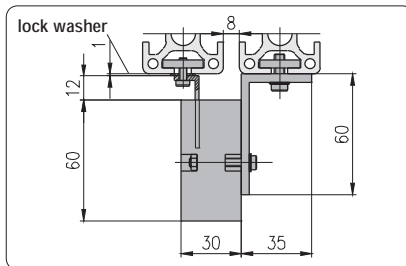
- Fastening elements for:
- safety switches AZ 17
 - safety closing AZM 170 at sliding doors



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

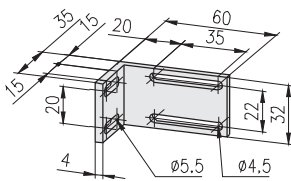
Safety interlocking-mounting AZ 17
for swinging door

Weight

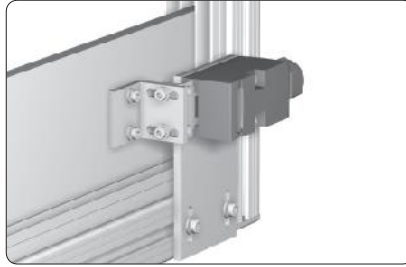
26 g

Article-No.

1.73.4110



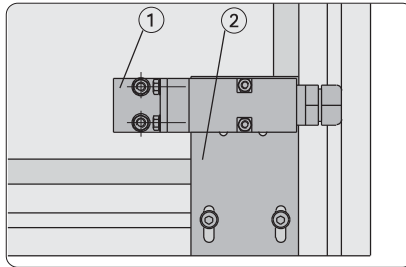
**Safety interlocking-mountings
AZ 17
for sliding door**



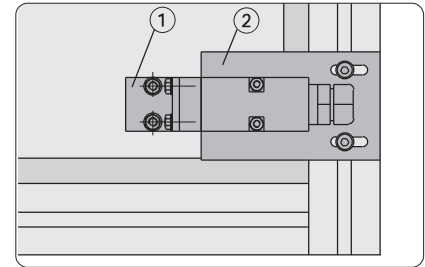
Application

- Fastening elements for:
- safety switches AZ 17
 - safety closing AZM 170 at sliding doors

**Mounting position:
Safety switch parallel to sliding door**

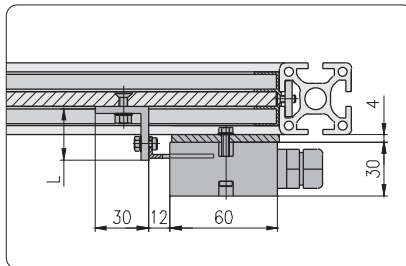


Fastening plate horizontal

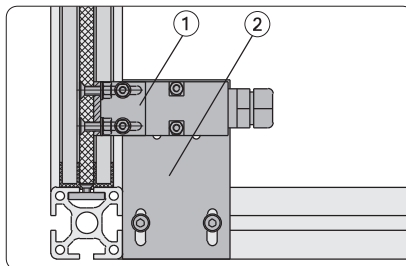


Fastening plate vertical

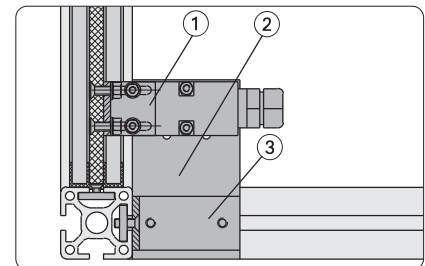
- ① Contact bracket-mounting AZ 17
- ② Safety interlocking-mounting AZ 17



**Mounting position:
Safety switch across to sliding door**

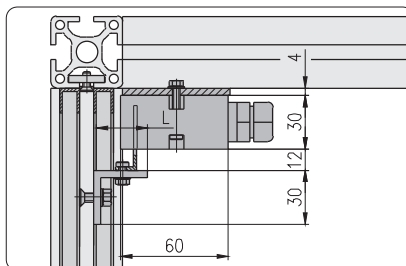


Fixing at cross profile



Fixing at longitudinal profile

- ① Contact bracket-mounting AZ 17
- ② Safety interlocking-mounting AZ 17
- ③ Angle for safety interlocking-mounting AZ 17

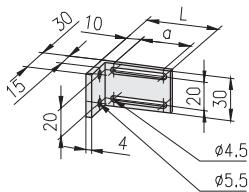


**Safety interlocking-mountings
AZ 17
for sliding door**

Technical data
material: aluminium
surface: natural anodised

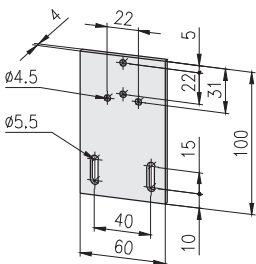
Comments
Assembly on
profile 30x30
profile 40x40
profile 40x80

**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

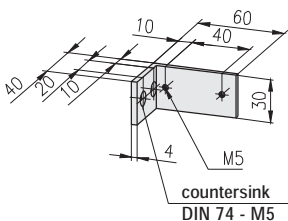
**Safety interlocking-mounting AZ 17
for sliding door**



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

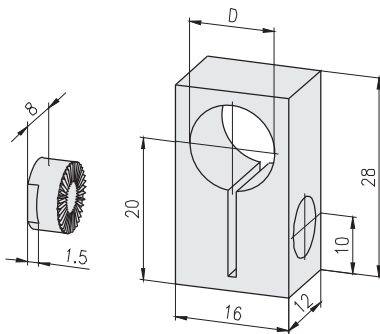
The toothed lock washer is fixed in profile slot and guarantees a reliable positioning

Technical data

material: PA, black

Fastening elements

cap-screw DIN 6912, M4



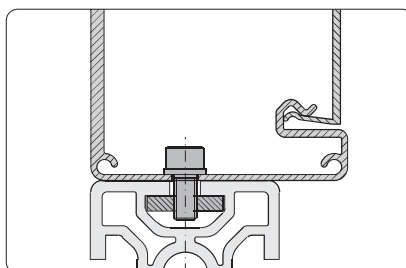
Description	D	Weight	Article-No.
Sensor bracket 8	Ø6.5	5.5 g	1.73.80806
Sensor bracket 8	Ø8	5.4 g	1.73.80808
Sensor bracket 8	Ø12	4.6 g	1.73.80812

Electrical installation trunking


Application

To supply machines and work stations with:

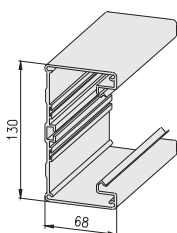
- alternating current
- high-tension current
- air



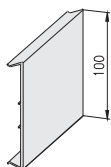
Mounting direct to profile





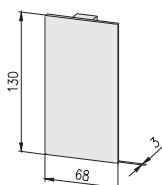
Mounting with connection plate

E-trunking Alu, 68x130


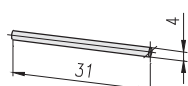
Description	Weight	Article-No.
E-trunking Alu, 68x130, bar 6 m	13 kg	1.74.1101.60
 E-trunking Alu, 68x130, cut to length	2.17 kg/m	1.74.1101-A00A00/... /... = length in mm

E-trunking pre-cut lid


Description	Weight	Article-No.
E-trunking pre-cut lid Alu, bar 6 m	5 kg	1.74.1102.60
 E-trunking pre-cut lid Alu, cut to length	834 g/m	1.74.1102-A00A00/...
E-trunking pre-cut lid PVC, light grey, bar 2 m	760 g	1.74.1103.20
 E-trunking pre-cut lid PVC, l. grey, cut to length	380 g/m	1.74.1103-A00A00/... /... = length in mm

E-trunking end cap


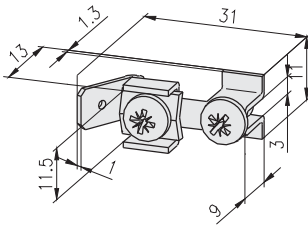
Description	Weight	Article-No.
E-trunking end cap Alu	230 g	1.74.1104

E-trunking coupling pin

Comments

Coupling pin for positioning and elongating the electrical trunking

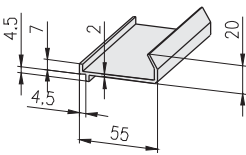
Description	Weight	Article-No.
E-trunking coupling pin	3 g	1.74.1105

E-trunking earth terminal



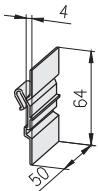
Description	Weight	Article-No.
E-trunking earth terminal	6.8 g	1.74.1106

E-trunking partition



Description	Weight	Article-No.
E-trunking partition, bar 2 m	540 g	1.74.1107.20
 E-trunking partition, cut to length	270 g/m	1.74.1107-A00A00/... /... = length in mm

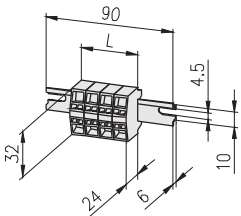
E-trunking clip



Comments
Clip to support partition

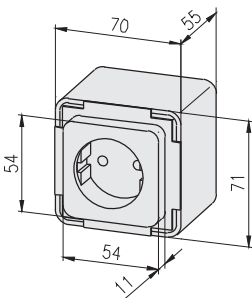
Description	Weight	Article-No.
E-trunking clip	7 g	1.74.1108

E-trunking terminal strip



Description	L	Weight	Article-No.
E-trunking terminal strip, 4gang	59	43 g	1.74.11094
E-trunking terminal strip, 5gang	69	50 g	1.74.11095

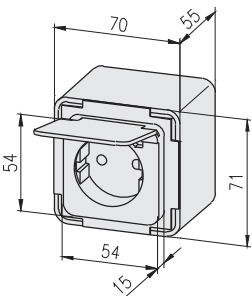
Socket



Description	Weight	Article-No.
Socket	150 g	1.74.2201

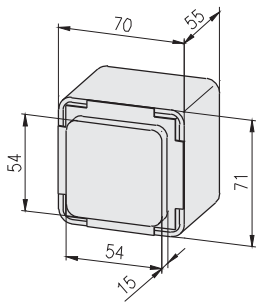
Single parts		
Socket insert	76 g	1.74.2201/01
Socket box, black	68 g	1.74.2xxx/01
Mains cable cleat	6 g	1.74.2xxx/02

Socket with hinged cover



Description	Weight	Article-No.
Socket with hinged cover	163 g	1.74.2202

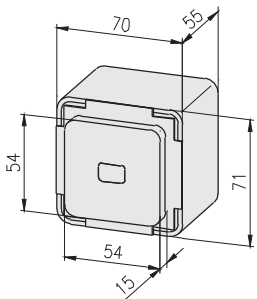
Single parts		
Socket with hinged cover	90 g	1.74.2202/01
Socket box, black	67 g	1.74.2xxx/01
Mains cable cleat	6 g	1.74.2xxx/02

Rocker switch


Description	Weight	Article-No.
Rocker switch	137 g	1.74.2301

Single parts

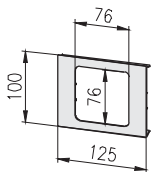
Rocker switch insert	46 g	1.74.2301/01
Rocker for switch	18 g	1.74.2301/02
Socket box, black	67 g	1.74.2xxx/01
Mains cable cleat	6 g	1.74.2xxx/02

Rocker control switch


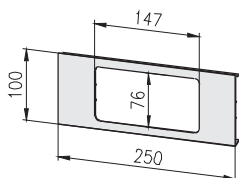
Description	Weight	Article-No.
Rocker control switch	154 g	1.74.2302

Single parts

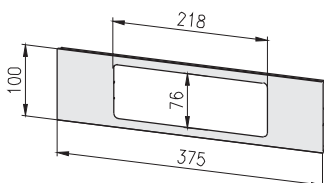
Rocker control switch insert	57 g	1.74.2302/01
Rocker for control switch	24 g	1.74.2302/02
Socket box, black	67 g	1.74.2xxx/01
Mains cable cleat	6 g	1.74.2xxx/02

Pre-cut lid, 1gang


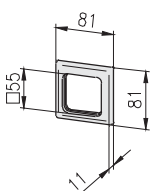
Description	Weight	Article-No.
Pre-cut lid, Alu, 1gang	82 g	1.74.3111
Pre-cut lid, PVC, 1gang, light grey	28 g	1.74.3121

Pre-cut lid, 2gang


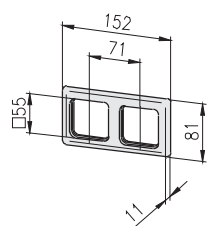
Description	Weight	Article-No.
Pre-cut lid, Alu, 2gang	83 g	1.74.3112
Pre-cut lid, PVC, 2gang, light grey	59 g	1.74.3122

Pre-cut lid, 3gang


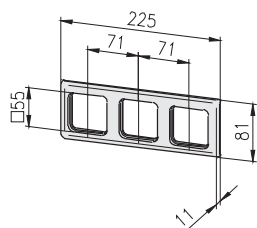
Description	Weight	Article-No.
Pre-cut lid, Alu, 3gang	113 g	1.74.3113
Pre-cut lid, PVC, 3gang, light grey	88 g	1.74.3123

Cover frame, 1gang


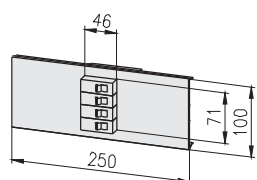
Description	Weight	Article-No.
Cover frame, 1gang	21 g	1.74.4111

Cover frame, 2gang


Description	Weight	Article-No.
Cover frame, 2gang	39 g	1.74.4112

Cover frame, 3gang


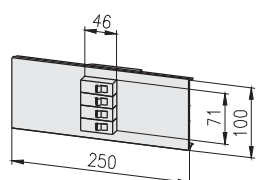
Description	Weight	Article-No.
Cover frame, 3gang	58 g	1.74.4113

Miniature circuit breaker 10 A


Description	Pcs.	Weight	Article-No.
Miniature circuit breaker, 10 A, 4gang	1	763 g	1.74.5110

Single parts

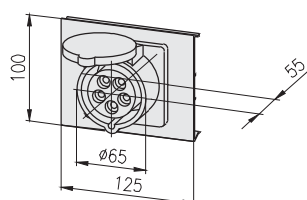
Miniature circuit breaker, flat, unipolar, 10 A	4	100 g	1.74.5110/01
Circuit breaker mounting box, 4gang	1	230 g	1.74.51xx/02
Pre-cut lid, Alu	1	133 g	1.74.51xx/03

Miniature circuit breaker 16 A


Description	Pcs.	Weight	Article-No.
Miniature circuit breaker, 16 A, 4gang	1	763 g	1.74.5116

Single parts

Miniature circuit breaker, flat, unipolar, 16 A	4	100 g	1.74.5116/01
Circuit breaker mounting box, 4gang	1	230 g	1.74.51xx/02
Pre-cut lid, Alu	1	133 g	1.74.51xx/03

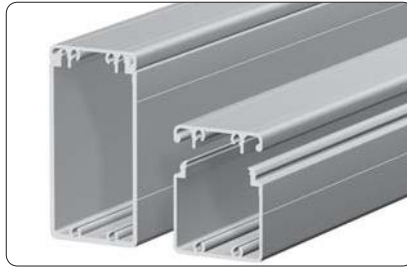
CEE heavy-power socket 16 A


Description	Pcs.	Weight	Article-No.
CEE heavy-power socket 16 A	1	915 g	1.74.6116

Single parts

CEE heavy-power socket with lid, 16 A	1	645 g	1.74.6116/01
CEE socket box	1	225 g	1.74.61xx/02
CEE pre-cut lid, Alu	1	45 g	1.74.61xx/03

Electrical installation trunking

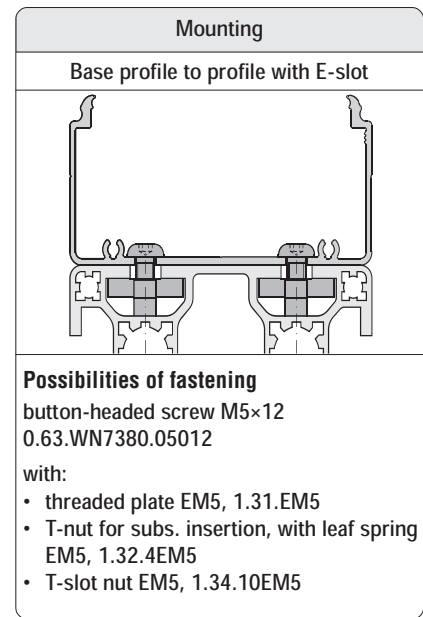
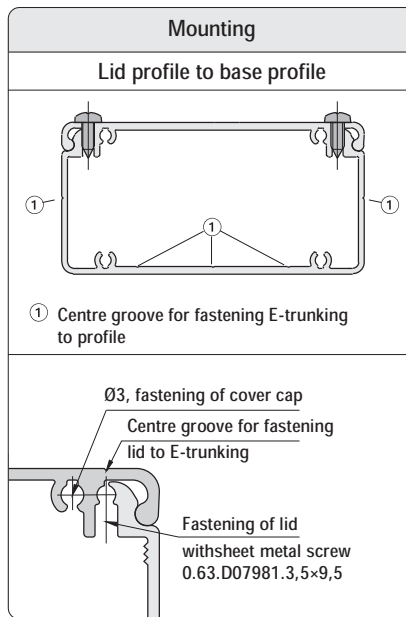
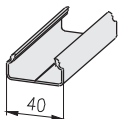

Application

Installation trunking for electrical and pneumatic lines

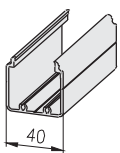
Technical data

material: aluminium

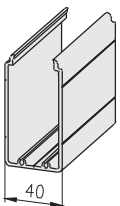
surface: natural anodised


E-trunking Alu


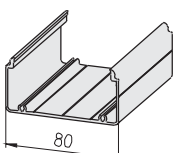
Description	Weight	Article-No.
E-trunking Alu 40x20, bar 6 m	1.80 kg	1.19.204020G.60
E-trunking Alu 40x20, cut to length	0.30 kg/m	1.19.204020G-A00A00/... /... = length in mm



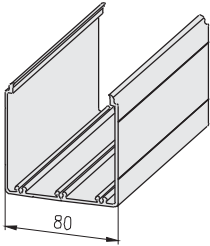
Description	Weight	Article-No.
E-trunking Alu 40x40, bar 6 m	3.66 kg	1.19.204040G.60
E-trunking Alu 40x40, cut to length	0.61 kg/m	1.19.204040G-A00A00/... /... = length in mm



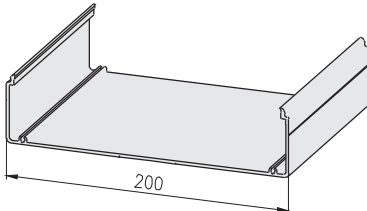
Description	Weight	Article-No.
E-trunking Alu 40x80, bar 6 m	7.20 kg	1.19.204080G.60
E-trunking Alu 40x80, cut to length	1.20 kg/m	1.19.204080G-F00F00/... /... = length in mm




Description	Weight	Article-No.
E-trunking Alu 80x40, bar 6 m	5.10 kg	1.19.208040G.60
E-trunking Alu 80x40, cut to length	0.85 kg/m	1.19.208040G-F00F00/... /... = length in mm

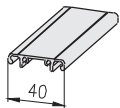


Description	Weight	Article-No.
E-trunking Alu 80×80, bar 6 m	9.30 kg	1.19.208080G.60
 E-trunking Alu 80×80, cut to length	1.55 kg/m	1.19.208080G-F00F00/... /... = length in mm

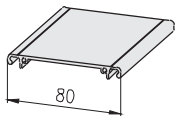



Description	Weight	Article-No.
E-trunking Alu 200×50, bar 6 m	12.00 kg	1.19.220050G.60
 E-trunking Alu 200×50, cut to length	2.0 kg/m	1.19.220050G-L00L00/... /... = length in mm

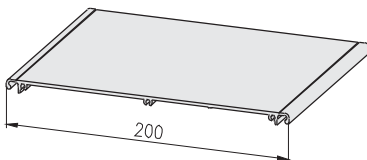
E-trunking Alu, lids



Description	Weight	Article-No.
E-trunking Alu, lid 40, bar 6 m	2.10 kg	1.19.2040D.60
 E-trunking Alu, lid 40, cut to length	0.35 kg/m	1.19.2040D-A00A00/... /... = length in mm

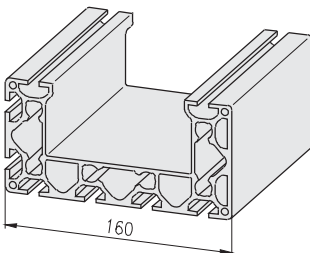


Description	Weight	Article-No.
E-trunking Alu, lid 80, bar 6 m	3.54 kg	1.19.2080D.60
 E-trunking Alu, lid 80, cut to length	0.59 kg/m	1.19.2080D-F00F00/... /... = length in mm



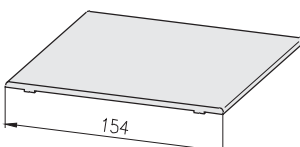
Description	Weight	Article-No.
E-trunking Alu, lid 200, bar 6 m	9.00 kg	1.19.2200D.60
 E-trunking Alu, lid 200, cut to length	1.50 kg/m	1.19.2200D-L00L00/... /... = length in mm

E-trunking Alu

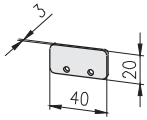


Description	Weight	Article-No.
Profile 80×160, 8E, SP, bar 6 m	47.40 kg	1.11.080160.89SP.60
 Profile 80×160, 8E, SP, cut to length	7.90 kg/m	1.11.080160.89SP-L00L00/... /... = length in mm

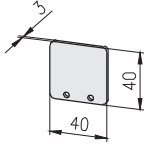
E-trunking Alu, lid



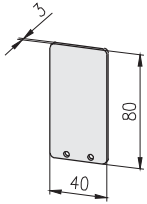
Description	Weight	Article-No.
Profile pre-cut lid 120, bar 6 m	10.80 kg	1.19.1101120.60
 Profile pre-cut lid 120, cut to length	1.80 kg/m	1.19.1101120-L00L00/... /... = length in mm

E-trunking Alu, end plates


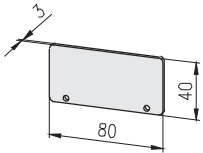
Description	Weight	Article-No.
E-trunking Alu, end plate 40×20	6.0 g	1.75.2040202



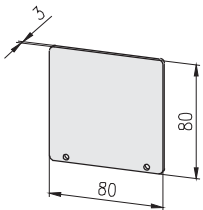
Description	Weight	Article-No.
E-trunking Alu, end plate 40×40	12.3 g	1.75.2040402



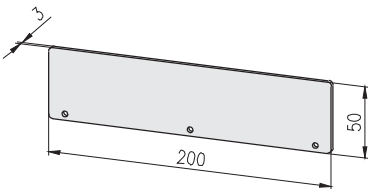
Description	Weight	Article-No.
E-trunking Alu, end plate 40×80	25.0 g	1.75.2040802



Description	Weight	Article-No.
E-trunking Alu, end plate 80×40	25.0 g	1.75.2080402

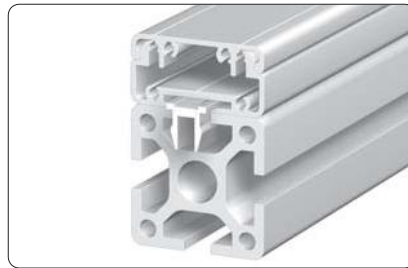


Description	Weight	Article-No.
E-trunking Alu, end plate 80×80	48.0 g	1.75.2080802



Description	Weight	Article-No.
E-trunking Alu, end plate 200×50	80.7 g	1.75.2200503

Electrical installation trunking for clips

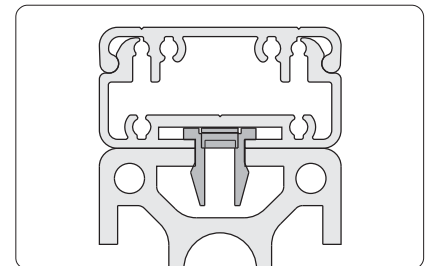
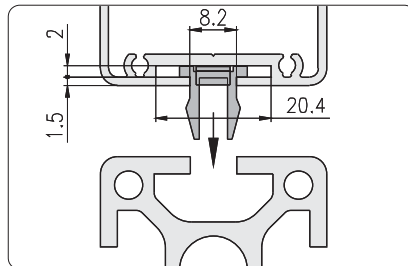


Application

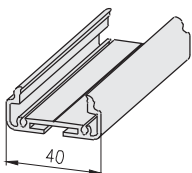
Clip-system for quick assembly of the E-trunking


Technical data

material: aluminium
surface: natural anodised

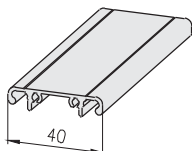


E-trunking Alu, for clips



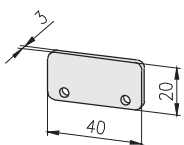
Description	Weight	Article-No.
E-trunking Alu 40x20, Clips, bar 6 m	3.00 kg	1.19.214020G.60
 E-trunking Alu 40x20, Clips, cut to length	0.50 kg/m	1.19.214020G-A00A00/... /... = length in mm

E-trunking Alu, lid



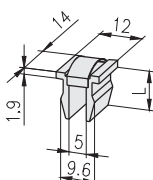
Description	Weight	Article-No.
E-trunking Alu, lid 40, bar 6 m	2.10 kg	1.19.2040D.60
 E-trunking Alu, lid 40, cut to length	0.35 kg/m	1.19.2040D-A00A00/... /... = length in mm

E-trunking Alu, end plate



Description	Weight	Article-No.
E-trunking Alu, end plate 40x20, Clips	6.0 g	1.75.2140202

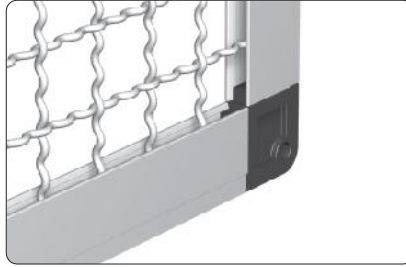
Clip for E-trunking Alu



Technical data
material: Murytal C
colour: natural

Description	L	Weight	Article-No.
Clip E3	11	3.0 g	1.75.1000E3
Clip E4	12	3.0 g	1.75.1000E4

**Corner elements
for wire net mounting profile**

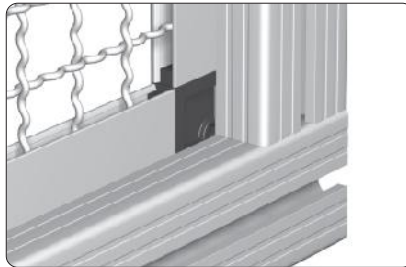


Application

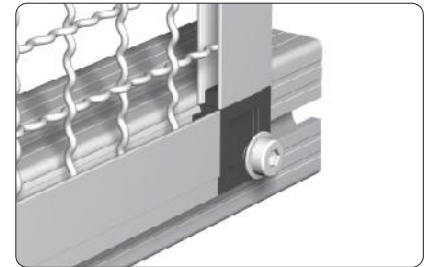
This mounting profile allows simple and safe installation of screens

Comments

Wire net mounting profile [1.19.1423...](#)



Mounting in the profile slot

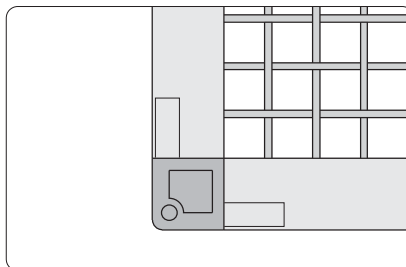
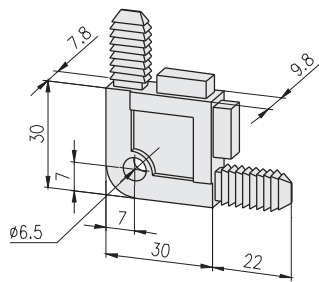


Fastening from the outside

Technical data

material: PA - GF
colour: black

Outside corner



Outside corner

Description

Corner element - outside

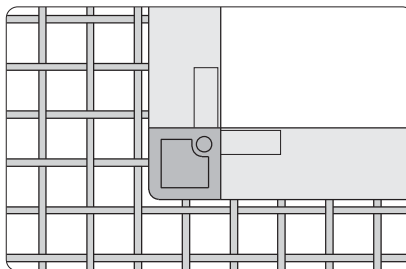
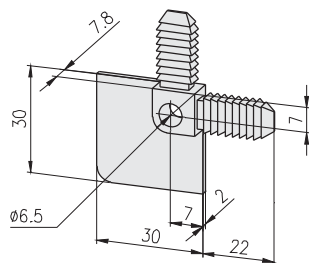
Weight

13 g

Article-No.

1.81.1010

Inside corner



Inside corner

Description

Corner element - inside

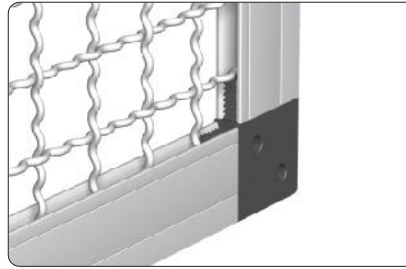
Weight

6 g

Article-No.

1.81.1020

**Corner element 33
for wire net mounting profile 33x10**

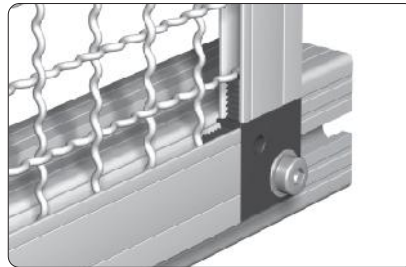


Application

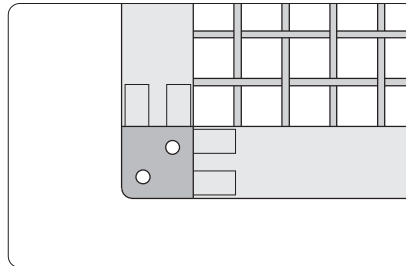
This profile allows simple and safe installation of wire nets

Comments

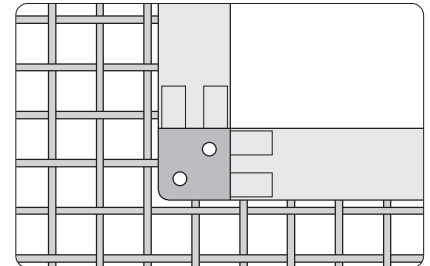
Wire net mounting profile 33x10
➔ 1.19.1423...



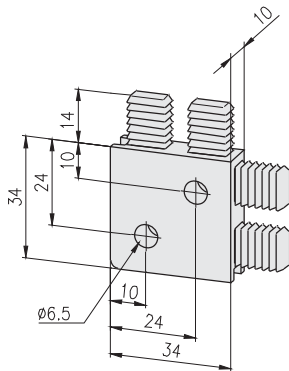
Outside mounting



Outside corner



Inside corner



Technical data

material: PA - GF
colour: black

Description

Corner element 33

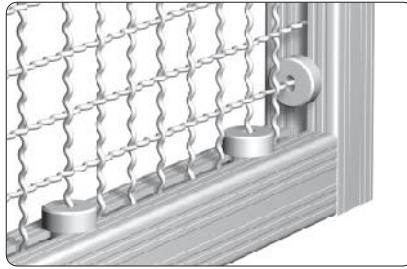
Weight

16 g

Article-No.

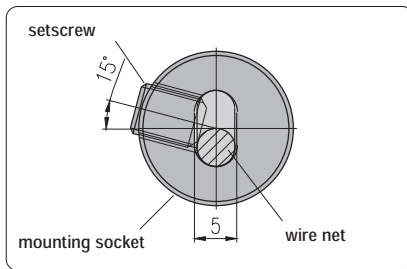
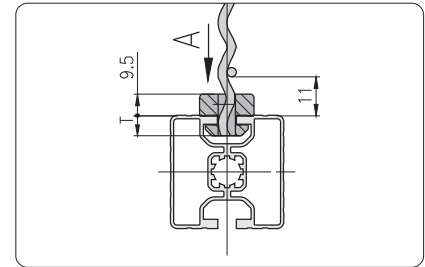
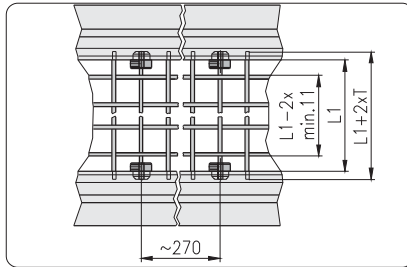
1.81.23310

Mounting sockets



Application

For stable and vibration free fastening of wire nets



View "A"

Assembly

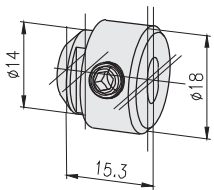
- plug terminal sockets at a distance of about 270 mm on the wire net
- push on profile
- rotate mounting sockets with headless setscrew DIN 913 M6×8 at an angle of 15°

Technical data

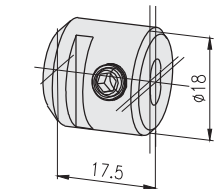
material:
 mounting socket: aluminium, natural anodised
 setscrew: steel, galvanised

Delivery unit

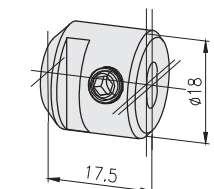
Mounting socket incl. setscrew



H F E



H F E3



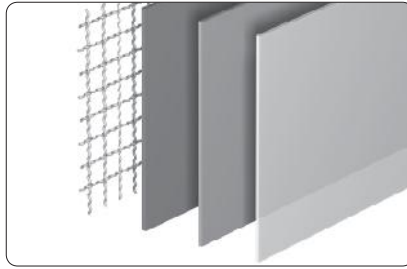
H F E4

Description	T	Weight	Article-No.
Mounting socket, F	5	6 g	1.81.510F

Description	T	Weight	Article-No.
Mounting socket, E3	9	6 g	1.81.510E3

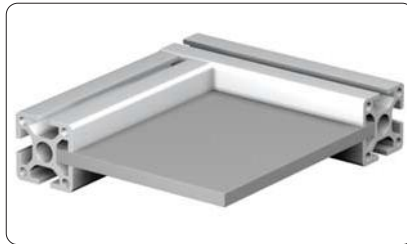
Description	T	Weight	Article-No.
Mounting socket, E4	10	6 g	1.81.510E4

Panel elements

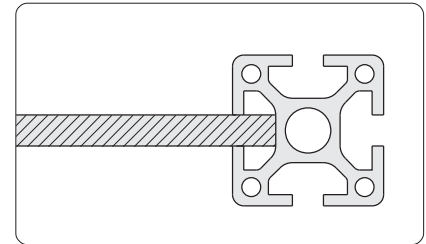


Application

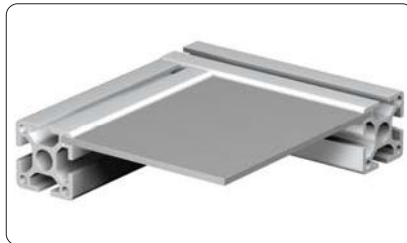
Panel elements to cover machine frames, work stations, partition walls.



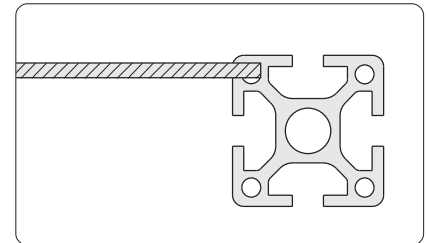
Panel element, fixing directly in the slot



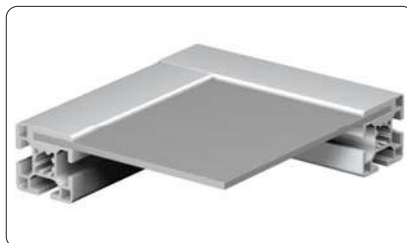
Installation accessories ↗ 1.41



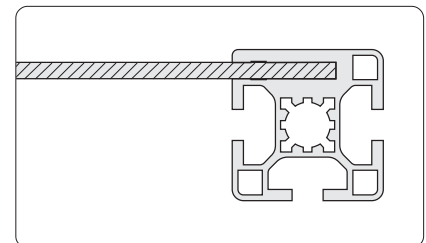
Panel elements close to the outer contour by subsequent slitting of the profiles



Special slits ↗ 1.1E.01



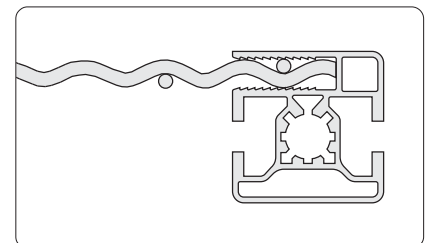
Panel elements close to the outer contour by applying panel profiles



Panel profiles ↗ 1.14



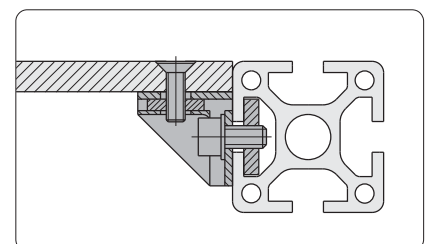
Panel elements close to the outer contour by applying wire net profiles



Wire net profiles ↗ 1.15



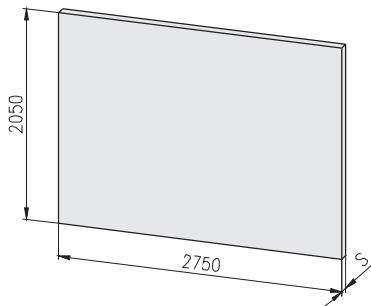
Panel elements close to the outer contour by fixing with angle or mounting block



Mounting blocks ↗ 1.64

Chipboards
both sides coated with melamine

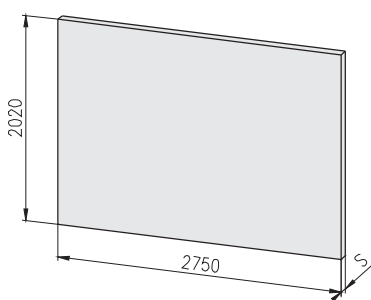
Technical data	
surface:	both sides coated with melamine
structure:	pearl
RAL 9002:	grey-white
formaldehydemission:	complies to safety standards §9 paragraph 3
light-fastness:	point 6 as per DIN 53799
temperature resistance:	- 25°C to 130°C
chemical resistance:	resistant against organic food, light acid 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 = 16 mm 11.2 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	9002	32 kg	1.82.083.00
Chipboard	16	9002	64 kg	1.82.163.00
Chipboard	19	9002	75 kg	1.82.193.00

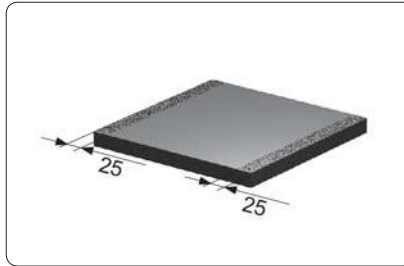
Solid plastic panels
coated with melamine

Technical data	
surface:	both sides coated with melamine
structure:	pearl
RAL 9002:	grey-white
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	9002	33 kg	1.83.043.00
Solid plastic panel	8	9002	66 kg	1.83.083.00

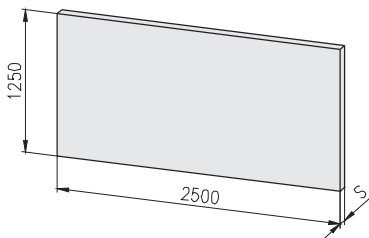
Alu-plastic composite panels



Comments

The anodised composite panels have contact strips of 25 mm width on the short sides.

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/□□□□×□□□□ 1.85.□□□-99/□□□□×□□□□ type 1.85.□□□-99/□□□□×□□□□ length×width in mm



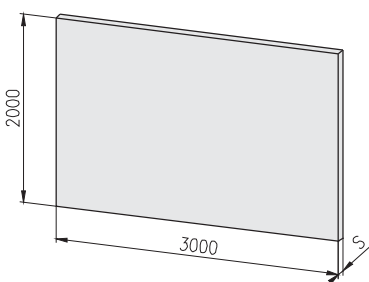
Description	S	Weight	Article-No.
Alu-plastic composite panel	4	17.2 kg	1.85.040.00
Alu-plastic composite panel	6	22.8 kg	1.85.060.00

Acrylic

Application

Doors, panels and guards

Technical data	
thickness tolerance:	± 5%
weight:	S = 4 mm 4.8 kg/m ² S = 6 mm 7.2 kg/m ² S = 8 mm 9.6 kg/m ²
cut to length:	1.86.□□□-99/□□□□×□□□□ 1.86.□□□-99/□□□□×□□□□ type 1.86.□□□-99/□□□□×□□□□ length×width in mm

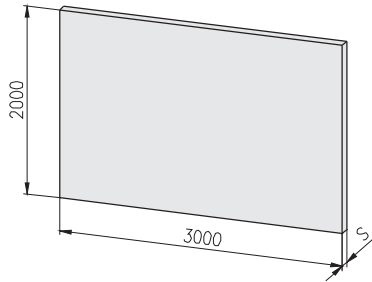


Description	S	Colour	Weight	Article-No.
Acrylic xt	4	transparent	28.8 kg	1.86.041.00
Acrylic xt	4	bronze 802	28.8 kg	1.86.042.00
Acrylic xt	6	transparent	43.2 kg	1.86.061.00
Acrylic xt	6	bronze 802	43.2 kg	1.86.062.00
Acrylic xt	8	transparent	57.6 kg	1.86.081.00
Acrylic xt	8	bronze 802	57.6 kg	1.86.082.00

Polycarbonate (Makrolon)

Application

Doors, panels and guards with stringent security requirements as polycarbonate offers high impact resistance and strength against breakage

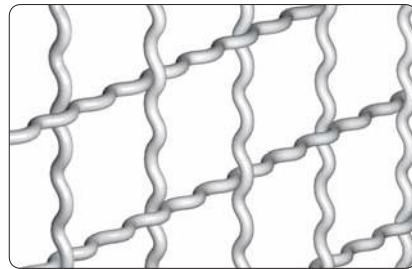


Technical data	
thickness tolerance:	+0.8 mm
weight:	S = 4 mm 4.8 kg/m ² S = 6 mm 7.2 kg/m ² S = 8 mm 9.6 kg/m ²
cut to length:	1.87.□□□-99/□□□□×□□□□ 1.87.□□□-99/□□□□×□□□□ type 1.87.□□□-99/□□□□×□□□□ length×width in mm

Description	S	Colour	Weight	Article-No.
Polycarbonate	4	transparent	28.8 kg	1.87.041.00
Polycarbonate	4	bronze 885	28.8 kg	1.87.042.00
Polycarbonate	6	transparent	43.2 kg	1.87.061.00
Polycarbonate	6	bronze 885	43.2 kg	1.87.062.00
Polycarbonate	8	transparent	57.6 kg	1.87.081.00
Polycarbonate	8	bronze 885	57.6 kg	1.87.082.00

Properties		Acrylic xt	Poly- carbonate
Mechanical properties			
	20°C		
maximum extent of flex	MN/m ²	107.9	68.7
break / shear point	%	5.5	> 110.0
compression	MN/m ²	117.7	78.5
elasticity	MN/m ²	3,188.0	2,256.0
marring resistance	J/m ²	29.4	392.4
impact resistance	kJ/m ²	19.6	no break
tensile strength	MN/m ²	73.6	68.7
Thermal properties			
temperature distortion according to 'Vicat'	°C	110	170
melting point	°C	168	170
temperature range under static load (max.)	°C	70	130
temperature range under static load (min.)	°C	-40	-100

Wire net, Alu



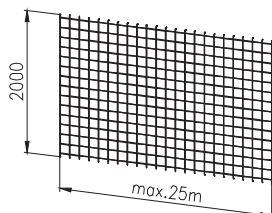
Application

For protective coverings and partition walls

Comments

Mounting in the profile:

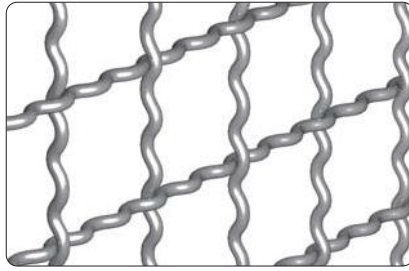
- with sponge rubber ↗ 1.41.6□□
- with wire net m. prof. ↗ 1.19.1423..
- with wedge profile ↗ 1.41.51E□.□
- with framing profile ↗ 1.41.710.□
- with mounting sockets ↗ 1.81.510□□



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
length of ring:	25 m
cut to length:	1.88.□□□-99/□□□□×□□□□ 1.88.□□□-99/□□□□×□□□□ type 1.88.□□□-99/□□□□×□□□□ length×width in mm

Description	Weight	Article-No.
Wire net, Alu 3×20×20	92.5 kg	1.88.322.00
Wire net, Alu 4×30×30	112.5 kg	1.88.433.00

Wire net, steel



Application

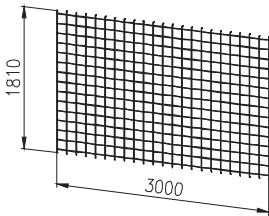
For protective coverings and partition walls

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/□□□□×□□□□
	1.88.□□□-99/□□□□×□□□□ type
	1.88.□□□-99/□□□□×□□□□ length×width in mm



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

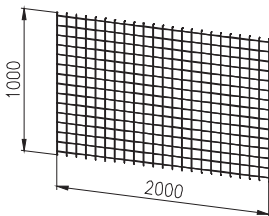
For protective coverings and partition walls

Comments

Mounting in the profile:

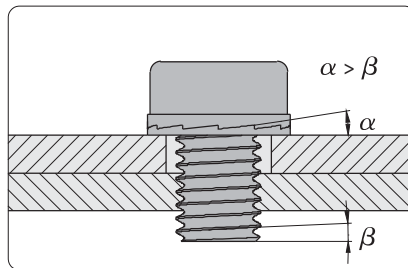
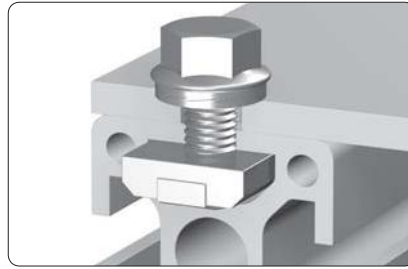
- with sponge rubber ↗ 1.41.6□□
- with wire net m. prof. ↗ 1.19.1423...
- with wedge profile ↗ 1.41.51E□.□
- with framing profile ↗ 1.41.710.□
- with mounting sockets ↗ 1.81.510□□

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/□□□□×□□□□
	1.88.□□□-99/□□□□×□□□□ type
	1.88.□□□-99/□□□□×□□□□ length×width in mm



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

Self locking washers
DIN 25201

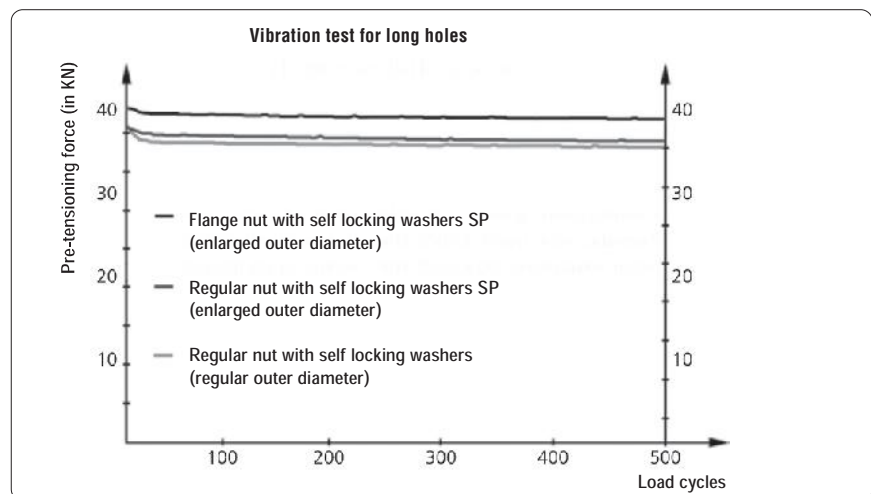


The cam angle α of the washers is larger than the thread pitch β of the bolt.

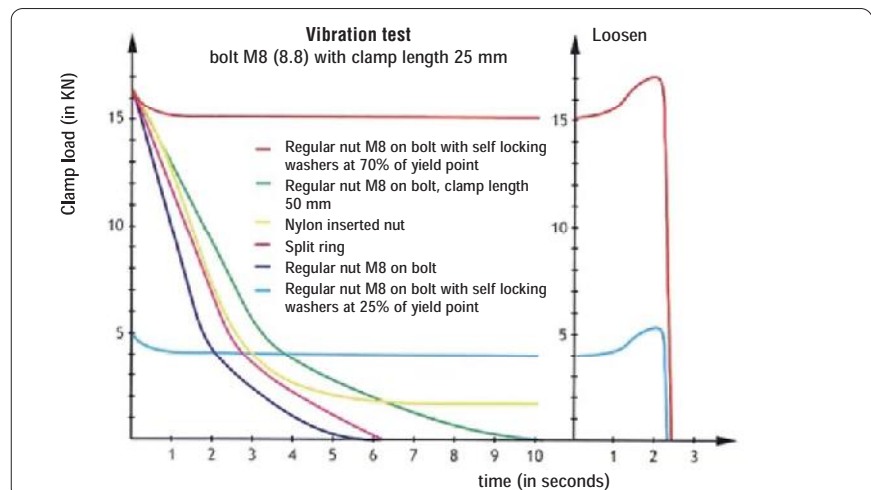
Advantages

- 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.

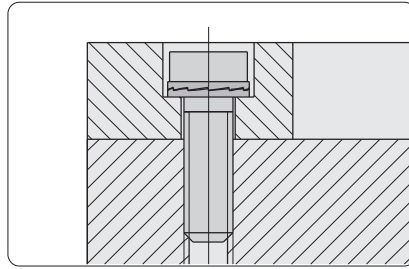


Junker vibration test for bolt M12 (8.8)



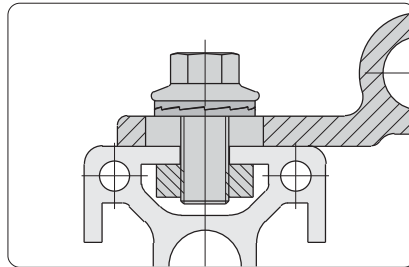
Test results

Self locking washers standard

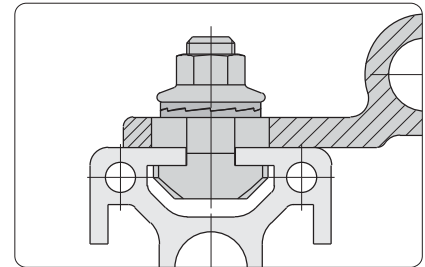


Cylindrical head screw DIN 6912 with self locking washers, standard

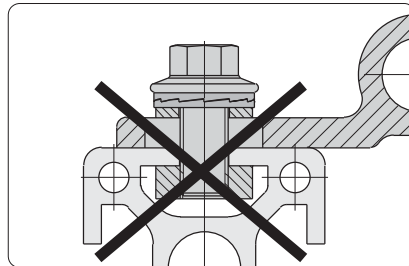
Self locking washers SP (enlarged outer diameter)



Hexagonal flange head screw DIN 6912 and self locking washers SP



T-screw with flange nut DIN 6923 and self locking washers SP

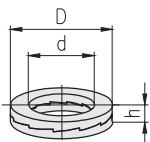


Do not use washers that are not secured in position

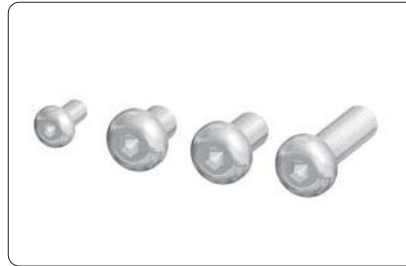
Technical data

material:

- steel: Zinc flake coated, pre-assembled in pairs (glued)
- stainless steel: 1.4404, pre-assembled in pairs (glued)



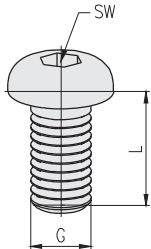
Description	D	h	d	Weight	Article-No.
Standard / steel					
Self locking washers, M6	10.8	1.8	6.5	0.7 g	0.62.D2520106
Self locking washers, M8	13.5	2.5	8.7	1.5 g	0.62.D2520108
Self locking washers, M10	16.6	2.5	10.7	2.3 g	0.62.D2520110
Standard / stainless steel					
<input type="checkbox"/> <input type="checkbox"/> Self locking washers, M6, SS	10.8	2.2	6.5	0.9 g	0.62.D2520106SS
<input type="checkbox"/> <input type="checkbox"/> Self locking washers, M8, SS	13.5	2.2	8.7	1.2 g	0.62.D2520108SS
<input type="checkbox"/> <input type="checkbox"/> 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					
<input type="checkbox"/> <input type="checkbox"/> Self locking washers, M6, SPSS	13.5	2.2	6.5	1.6 g	0.62.D2520106SPSS
<input type="checkbox"/> <input type="checkbox"/> Self locking washers, M8, SPSS	16.6	2.2	8.7	2.4 g	0.62.D2520108SPSS
<input type="checkbox"/> <input type="checkbox"/> Self locking washers, M10, SPSS	21.0	2.2	10.7	3.7 g	0.62.D2520110SPSS

Button head screws

Application

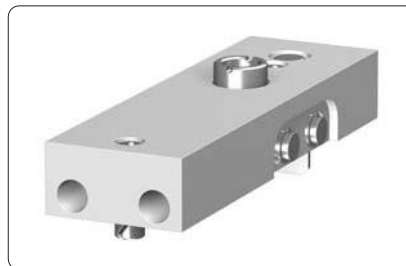
Button head screws for the mounting of additional elements

Technical data

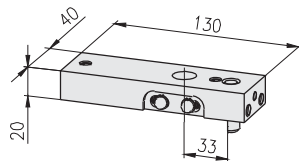
material: steel
surface: galvanised



Description	G×L	Weight	Article-No.
Button head screw	M5×12	2.4 g	0.63.WN7380.05012
Button head screw	M8×12	6.5 g	0.63.WN7380.08012
Button head screw	M8×18	8.5 g	0.63.WN7380.08018
Button head screw	M8×30	12.6 g	0.63.WN7380.08030

Tools
1.98
**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



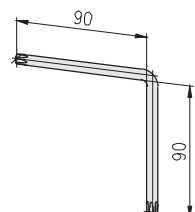
Description	Weight	Article-No.
Press in device for knurled cross bushing	310.0 g	1.98.11.21.B00R

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

Tx screw driver

Technical data

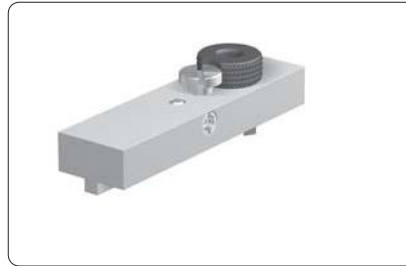
material: steel, hardened
surface: nickel-plated



Description	Weight	Article-No.
Tx screw driver for Torx 40 screws	54.0 g	1.98.T40.090090

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	
drill-Ø	chaf. ×45°	shaft-Ø	15.25	15.25	6/8.5	6.2	9.2	9.2	12.2	15.25	15.25	6.2	9.2	9.2	12.2	15.25	15.25	15.25
Slot	Description	shaft-Ø	1.5	3.5	-	2.0	-	1.5	2.0	1.5	3.5	2.0	-	1.5	1.0	-	1.5	3.5
		MK	MK	MK	8.5	6.2	9.2	9.2	12.2	12.0	12.0	10.0	10.0	10.0	12.0	16.0	16.0	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

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



Drill jig with clamping lever

Technical data

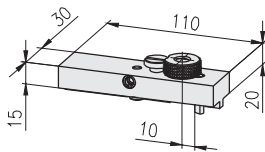
Base body:

- material: aluminium
- surface: natural anodised

Drill bush:

- material: steel
- surface: hardened and polished

**Drill jig
with setscrew**

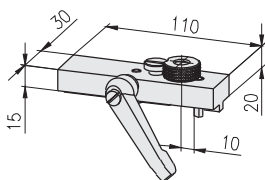


Description	Weight	Article-No.
Drill jig H with setscrew	189 g	1.99.01011
Single parts		Weight
Base body	120 g	1.99.01012-01
Drill bush for cross bushing, Ø9.2	50 g	1.99.01012-03
Safety screw for drill bush, M6×4	6 g	1.99.01012-04
Stop pin	2 g	1.99.01012-05
Connector	11 g	1.20.3/2H5

Accessories

Drill bush for parallel-anchor, Ø6.2	43 g	1.99.01012-02
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**Drill jig
with clamping lever**

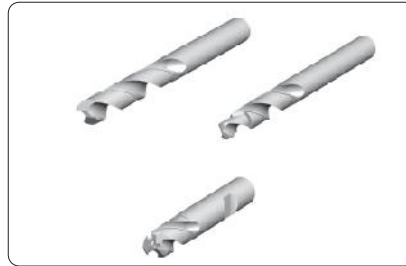


Description	Weight	Article-No.
Drill jig H with clamping lever	225 g	1.99.01012
Single parts		Weight
Base body	120 g	1.99.01012-01
Drill bush for cross bushing, Ø9.2	50 g	1.99.01012-03
Safety screw for drill bush, M6×4	6 g	1.99.01012-04
Stop pin	2 g	1.99.01012-05
Connector	11 g	1.20.3/2H5
Clamping lever 65, for connector, M6×20	36 g	1.29.650620

Accessories

Drill bush for parallel-anchor, Ø6.2	43 g	1.99.01012-02
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Tools
for profiles with H-slots

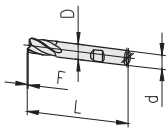


Drill, Milling cutter

Comments
Selection range ↗ 339

Milling cutter

- for • parallel-anchor
- cross bushing



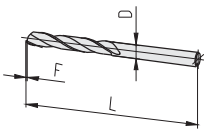
Technical data

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

- for • parallel-anchor
- cross bushing



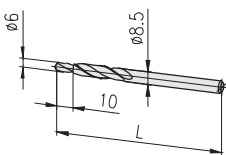
Technical data

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

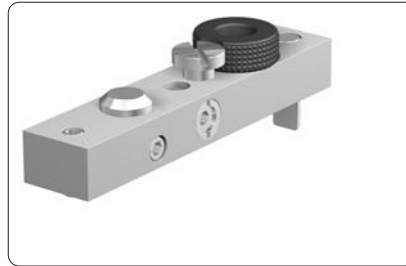
To drill core hole

Comments

Machining instruction ↗ 94, 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

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



Drill jig with clamping lever

Technical data

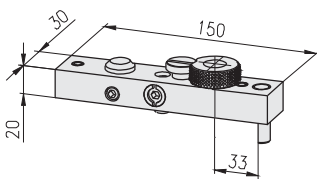
Base body:

- material: aluminium
- surface: natural anodised

Drill bush:

- material: steel
- surface: hardened and polished

Drill jig
with setscrew

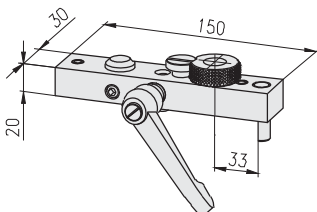


Description	Weight	Article-No.
Drill jig FE with setscrew	375 g	1.99.01111
Single parts		
Base body	188 g	1.99.01112-01
Drill bush for cross bushing, Ø15.25	105 g	1.99.01112-03
Safety screw for drill bush, M8×5.5	11 g	1.99.01112-04
Stop pin	19 g	1.99.01112-05
Setscrew for stop pin	2 g	1.99.01112-06
Connector, parallel-high	30 g	1.21.3/2F5
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		
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	1.21.3/2F5
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

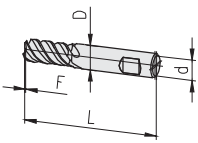


Drill, Milling cutter

Comments
Selection range \rightarrow 339

Milling cutter

- for • parallel-anchor
- cross bushing



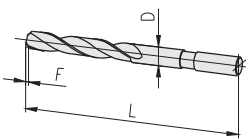
Technical data

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. 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



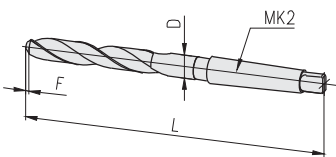
Technical data

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



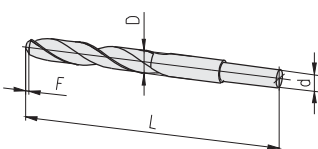
Technical data

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

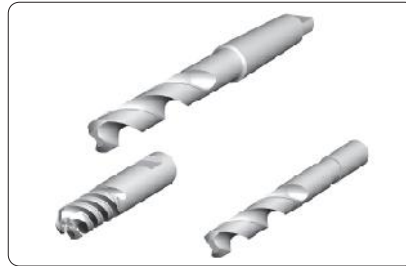


Technical data

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

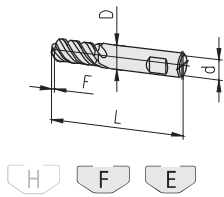
Tools
for profiles with F- and E-slots



Comments
Selection range \Rightarrow 339

Drill, Milling cutter

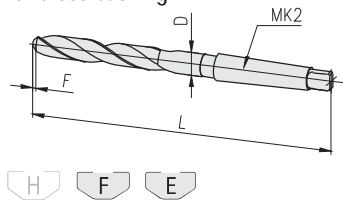
Milling cutter
for cross bushing



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

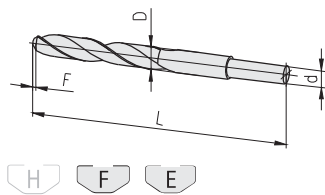
Drill
for cross bushing



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

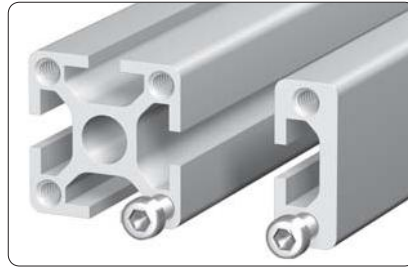
Drill
for cross bushing



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

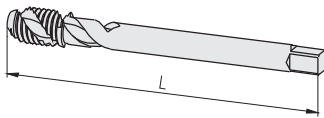
**Screw taps
for aluminium machining**



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

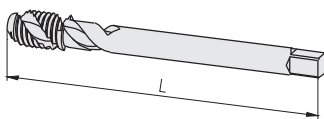
Description	G	L	Weight	Article-No.
Screw tap	M6	80	45 g	1.99.0406080



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

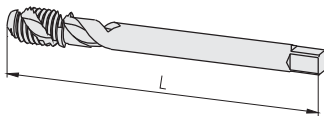
**Screw taps
for aluminium machining**



Application

Fastening thread in hollow chambers of profiles PG 50

**Screw tap
M12**



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
- 2-pitch thread start
- tolerance class: 6H

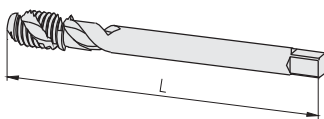
Description	G	L	Weight	Article-No.
Screw tap	M12	110	65 g	1.99.0412110



Application

Mounting threads in profile centre core hole Ø12 mm

**Screw tap
M14**



H F E

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	M14	110	75 g	1.99.0414110
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Australia

MayTec Australia P/L

Unit 8, 175 James Ruse Drive
Rosehill, NSW 2142

country code: +61
phone (0)2/98989929
fax (0)2/96384086
e-mail: info@maytec.com.au
<http://www.maytec.com.au>

Germany

MayTec Aluminium
Systemtechnik GmbH
Kopernikusstraße 20
D-85221 Dachau

country code: +49
phone (0)8131/3336-0
fax (0)8131/3336-119
e-mail: mail@maytec.de
<http://www.maytec.de>

USA

MayTec Inc.

901 Wesemann Drive
West Dundee, IL 60118

country code: +1
phone 847-429-0321
fax 847-429-0460
e-mail: mail@maytecinc.com
<http://www.maytecinc.com>

MayTec distributor