

» The Profile System

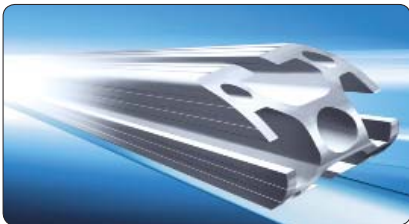
English
1/2018

 MayTec®

The key to success!



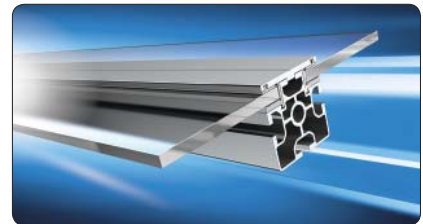
Solutions with Innovative Profile



The Profile System



The Clean-Room System



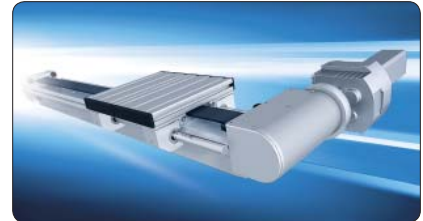
The Modular Wall System



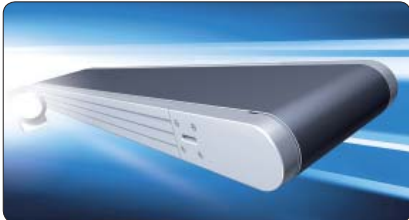
The Tube Clamping System



The Telescopic System



The Linear System



The Conveyor System



The People Mover System



The Skid Transfer System



Safety Barriers



The Dust Protection System



The Pipe & Joint System

The ideal profile system

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

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

Service

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

You may choose:

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

Implementation

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

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

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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 (↔ 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.



ESD

ESD protection



Attention!

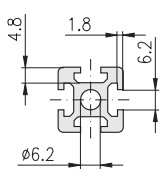
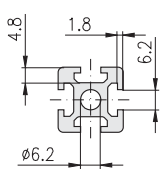

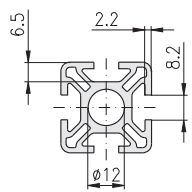
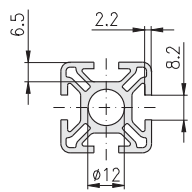

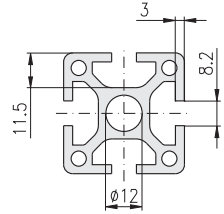
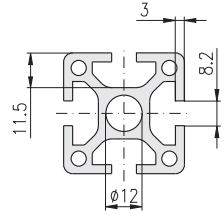

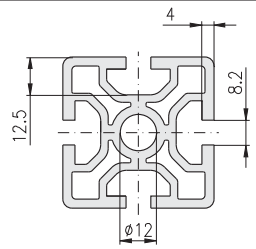
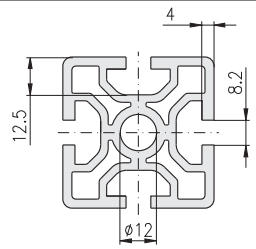


Important notice

Abbreviations

PG	profile group	e.g.: PG 30 = profile group 30 mm
L	light	profile characteristic: light type of construction
S	heavy	profile characteristic: heavy type of construction
P	plain	profile characteristic: no ornamental slots

Special characters

<input type="checkbox"/>	Placeholder Article-No.	Example 1.41.5□□.□	identifies the articles: 1.41.5F0.1 1.41.5F0.2 1.41.5E0.1 1.41.5E0.2
↔	Reference	Example ↔ 117 ↔ 1.41 ↔ 1.41.360 ↔ 1.41.5□□.□	reference to catalogue page 117 article number group 1.41 article 1.41.360 group of articles 1.41.5□□.□

Cross section of slots		Core hole-Ø	Slot width	Slot depth	Wall thickness	PG	
H-slot 		6.2	6.2	4.8	1.8	20	
							
F-slot 		12.0	8.2	6.5	2.2	20	
							
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 □ . □□□ R □□ . □□□□□□	Number of degrees (round profiles)
1. 1 □ . □□□□ k t . □□□□□□	Number of edges (special profiles)
1. 1 □ . □□□□□□ . □□□□□□	Slot quantity ²⁾
1. 1 □ . □□□□□□ . □□□□□□	Contour ³⁾
1. 1 □ . □□□□□□ . □□ L	Version light
1. 1 □ . □□□□□□ . □□ S	Version heavy
1. 1 □ . □□□□□□ . □□ B	Type B
1. 1 □ . □□□□□□ . □□ L B	Version light, Type B
1. 1 □ . □□□□□□ . □□ P	Plain

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

Connectors

- general

1. 2 □ . □□□□□□	Key
1. 2 □ . □□□□□□	Core hole ¹⁾
1. 2 □ . □□□□□□	Profile width ²⁾
1. 2 □ . □□□□□□	Head-variant ³⁾
1. 2 □ . □□□□□□	Connection-variant ⁴⁾
1. 2 □ . □□□ V □□	Stainless
1. 2 □ . □□□□□ E	Ground

□/□	Special cases:
□/□	
□/□	

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

-Oblique-hinge

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

- ¹⁾ 1 = Standard
2 = Standard 90°

-Oblique-bent anchor

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

- ¹⁾ 1 = Standard
2 = Standard 90°

-Miter-hinge

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

- ¹⁾ 1 = Standard
2 = Standard 90°

-Miter-bent anchor

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

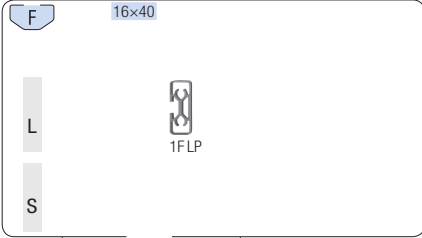
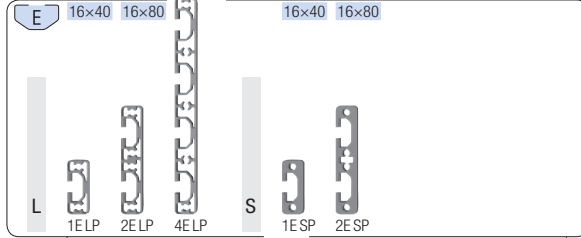


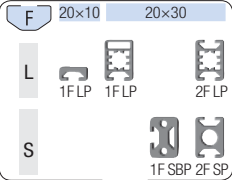
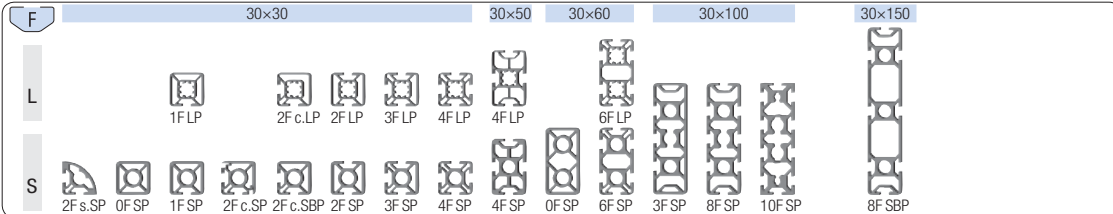
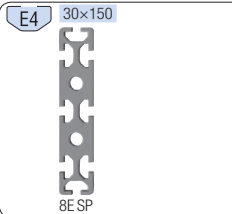
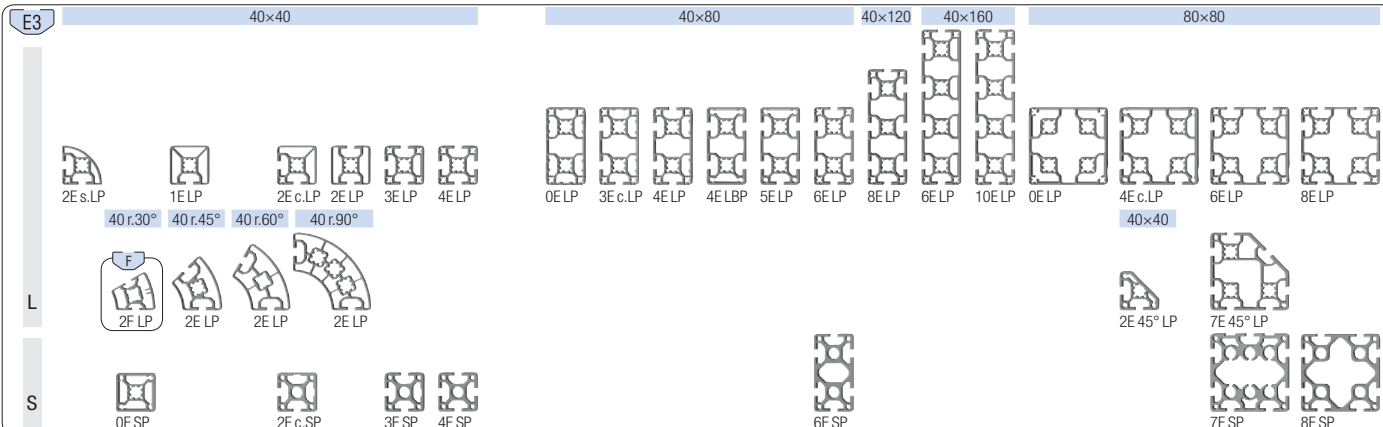
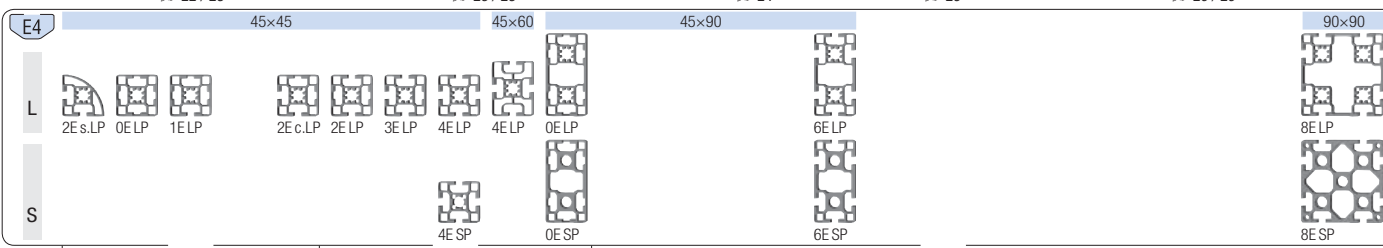

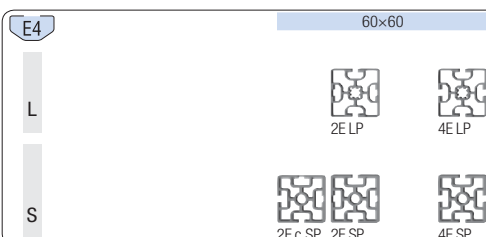
- ¹⁾ 1 = Standard
2 = Standard 90°

-Screw-type

1. 2 □ . □□□□□□ / □□	Key
1. 2 □ . □ S □□□□ / □□	Screw-type-connector
1. 2 □ . □□□□□□ / □□	Type of anchor ¹⁾
1. 2 □ . □□□□ M □ / □□	Thread
1. 2 □ . □□□□□□ / □□	Thread-Ø
1. 2 □ . □□□□□□ / □□	Screw special length

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

□/□	Special cases:
□/□	
□/□	

	plain	plain	plain	plain
16	<p>F 16x40</p>  <p>1FLP</p> <p>L</p> <p>S</p> <p>14</p>	<p>E 16x40 16x80 16x160</p>  <p>1ELP 2ELP 4ELP</p> <p>S 1ESP 2ESP</p> <p>13</p>		
20	<p>H 20x20</p>  <p>2HLP 4HLP</p> <p>L</p> <p>S 2Hs.SP 2Hc.SP 3HSP 4HSP</p> <p>15</p>	<p>20x40</p>  <p>4HSP 6HLP 6HSP</p> <p>L</p> <p>S</p> <p>16</p>	<p>F 20x10 20x30</p>  <p>1FLP 1FLP 2FLP</p> <p>L</p> <p>S 1FSBP 2FSP</p> <p>17</p>	
30	<p>F 30x30 30x50 30x60 30x100 30x150</p>  <p>1FLP 2Fc.LP 2FLP 3FLP 4FLP 4FLP</p> <p>L</p> <p>S 2Fs.SP 0FSP 1FSP 2Fc.SP 2Fc.SBP 2FSP 3FSP 4FSP 4FSP 0FSP 6FSP 3FSP 8FSP 10FSP 8FSBP</p> <p>18 19 20 21</p>	<p>E4 30x150</p>  <p>8ESP</p> <p>21</p>		
40	<p>E3 40x40 40x80 40x120 40x160 80x80</p>  <p>2Es.LP 1ELP 2Ec.LP 2ELP 3ELP 4ELP</p> <p>40 r.30° 40 r.45° 40 r.60° 40 r.90°</p> <p>L 2FLP 2ELP 2ELP 2ELP</p> <p>S 0ESP 2Ec.SP 3ESP 4ESP 6ESP 7E.SP 8ESP</p> <p>22 / 28 23 / 28 24 25 26 / 29</p>			
45	<p>E4 45x45 45x60 45x90 90x90</p>  <p>2Es.LP 0ELP 1ELP 2Ec.LP 2ELP 3ELP 4ELP 4ELP 0ELP 6ELP 8ELP</p> <p>L</p> <p>S 4ESP 0ESP 6ESP 8ESP</p> <p>30 31 32</p>			
50	<p>E4</p>  <p>L</p> <p>S</p>			
60	<p>E4 60x60</p>  <p>2ELP 4ELP</p> <p>L</p> <p>S 2Ec.SP 2ESP 4ESP</p> <p>34</p>			

plain

plain



without grooves

grooves



with grooves

grooves

16	20	30	40	45	50	60	Profile group
<div style="display: flex; justify-content: space-around;"> H F E </div>							Slot type
<div style="border: 1px solid black; border-radius: 5px; padding: 2px 5px; display: inline-block;">plain</div>							plain

L	light
S	heavy
P	plain
B	type B

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

30

	F	30x30	30x50	30x60	60x60
L		2F E.L	2F L	3F L	4F L
S		2F s.S	2F c.S	2F c.SB	3F S
		4F S	4F S	4F S	6F S
					8F L
					8F a.S

↔ 36 ↔ 37

40

	E3	40x40	40x80	40x120	80x80	80x160
L		2E s.L	2E c.L	2E L	3E L	4E L
S		2E c.S	3E S	4E S	6E S	8E L
					8E L	8E LB
						12E L
					8E S	8E a.S
						12E S

↔ 38 ↔ 39 ↔ 40

45

	E4	45x45	45x60	45x90
L		4E L	4E L	6E L
S		4E S	6E S	6E S

↔ 41

50

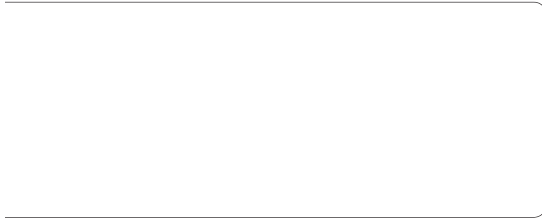
	E4	50x50	50x100	50x150	100x100
L		2E c.L	2E L	3E L	4E L
S		2E s.S	2E c.S	3E S	4E S
					6E L
					8E L
					8E L
					8E S
					8E S

↔ 42 ↔ 43

60

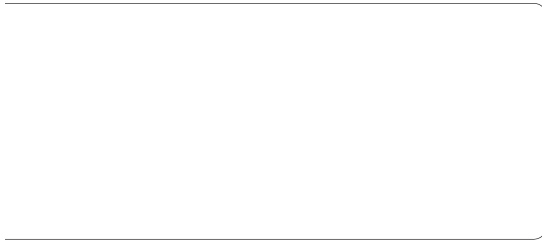
	E4	60x60	60x90
L		4E L	6E L
S		4E S	6E S

↔ 44



80x80	80x120	80x160	120x120
8E LBP	8E LP	12E LP	
8E a.SP	10E SP	8E SP	12E SP
			12E SP

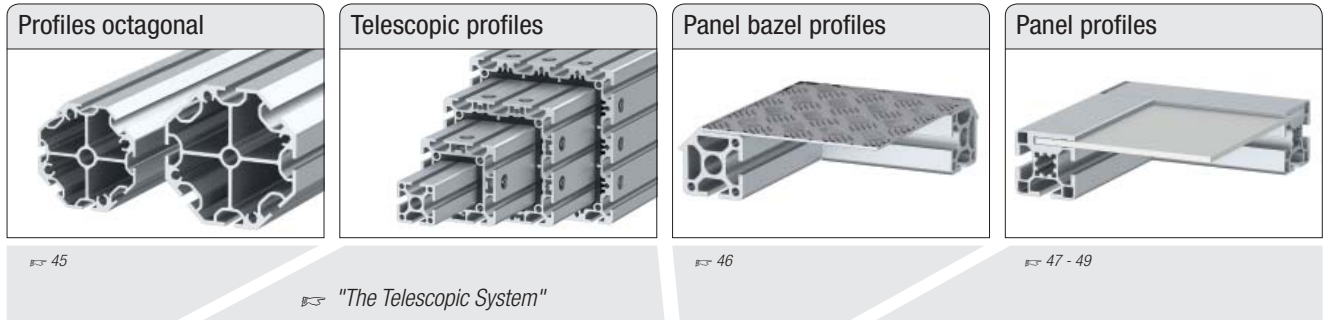
↔ 27
























100x200
12E SP

↔ 33







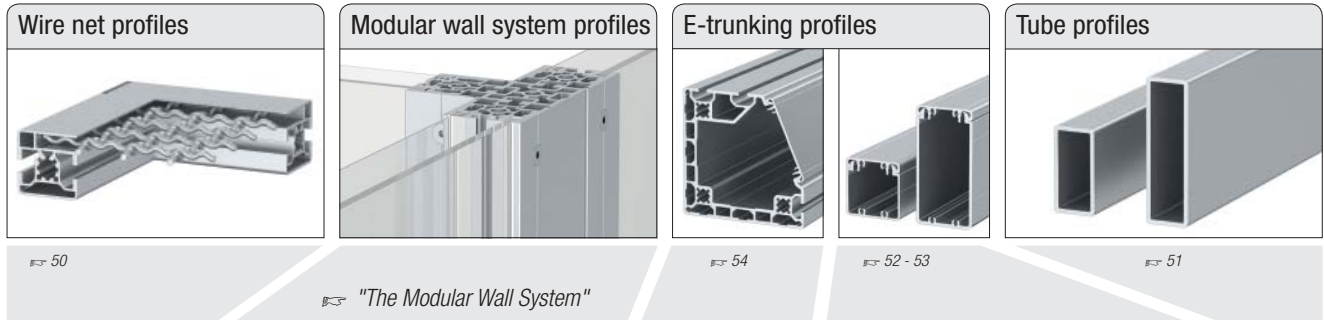
<p>30</p> <p>plain</p>	<p>F 30 octag.</p> <p>L</p> <p>S </p> <p>8F SP</p>		<p>30x60</p> <p></p> <p>3F 45° LP</p>	<p>30x30</p> <p></p> <p>0F LP</p> <p></p> <p>2F c.LP 4</p> <p></p> <p>3FLP 4</p> <p></p> <p>3FLP 4</p> <p></p> <p>2FLP 5</p> <p></p> <p>2FLP 5</p> <p></p> <p>2FLP 6</p>	<p>30x50</p> <p></p> <p>2FLP 5</p> <p></p> <p>2FLP 6</p>
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
<p>40</p> <p>plain</p>	<p>E3 40 octag.</p> <p>L</p> <p>S </p> <p>8E SP</p>	<p>40x40</p> <p></p> <p>8E SBP</p>	<p>80x80</p> <p></p> <p>12E SP</p>	<p>120x120</p> <p></p> <p>16E SP</p>	<p>160x160</p> <p></p> <p>2E 45° SP</p>	<p>40x40</p> <p></p> <p>2E c.LP 4</p> <p></p> <p>3ELP 4</p>	<p>40x60</p> <p></p> <p>3ELP 4</p>	<p>60x80</p> <p></p> <p>5ELP 4</p> <p></p> <p>6ELP 4</p>
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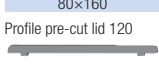



<p>45</p> <p>plain</p>								
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<p>50</p> <p>plain</p>	<p>E4</p> <p>L</p>					<p>50x50</p> <p></p> <p>2E c.LP 4</p> <p></p> <p>3ELP 4</p>		
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<p>60</p> <p>plain</p>								
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<p>30</p> <p>plain</p> <p>F</p> <p>30x30 30x45</p>  <p>2F LP 7.5 2F LP 7.5</p> <p>L</p> <p>S</p>			<p>Lid 30</p>  <p>30x30</p> <p>30x60 30x100</p>  <p>LP LP</p>
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<p>40</p> <p>plain</p> <p>E3</p> <p>40x40 40x60</p>  <p>2E LP 7.5 2E 1F LP 7.5</p> <p>L</p> <p>S</p>	<p>120x120</p> <p>Lid 80</p>  <p>120x120 3E LP</p> <p>80x160</p> <p>Profile pre-cut lid 120</p>  <p>80x160 8E SP</p>	<p>Lid 40</p>  <p>40x20 40x20 40x40 40x80</p> <p>for clips</p> <p>Lid 80</p>  <p>80x40 80x80 200x50</p> <p>Lid 200</p> 	
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<p>45</p> <p>plain</p> <p>E4</p> <p>45x45</p> <p>Compression profile</p> <p>47.5x5 45x5</p> <p>50x5</p>  <p>2E c.LP 4E LP 1E LP 4E LP</p> <p>L</p>			
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<p>50</p> <p>plain</p>			
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<p>60</p> <p>plain</p> <p>E4</p> <p>57x57 60x57 60x117 120x120</p> <p>Compression profile</p> <p>57x4 60x4 60x4 with chamfer</p> <p>61x4</p>  <p>2E c.LP 1E LP 4E LP 6E LP 4E a.LP</p> <p>L</p>			
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1

Profiles round



48 round

plain



1E SP 2E c.SP 2E SP

↔ 45

19" profiles




PG 30 PG 40 PG 50

↔ 55


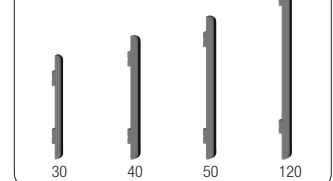
Tubes




020x2 030x3 040x4

↔ 55



Profile pre-cut lids

30 40 50 120

↔ 56

Wire net mounting profiles

33x10


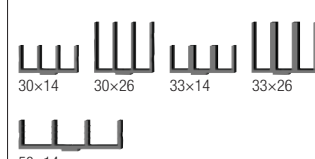
↔ 56

Grab handle profiles




↔ 56



Sliding profiles

30x14 30x26 33x14 33x26 50x14

↔ 57

C-track

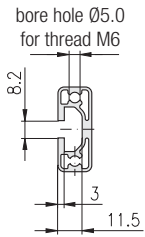



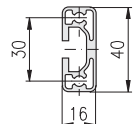
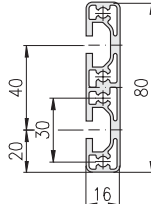
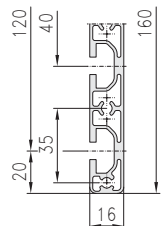
↔ 57

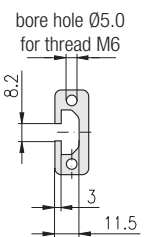


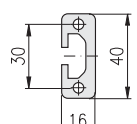
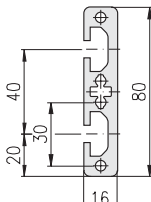
U-profile

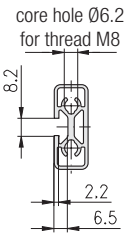

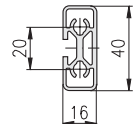



40

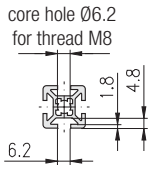


↔ 57

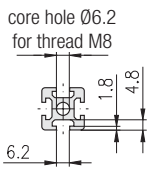






light				
				
				
Description	Profile 16×40, 1E, LP	Profile 16×80, 2E, LP	Profile 16×160, 4E, LP	
bar, 6 m	1.09.016040.14LP.60	1.09.016080.24LP.60	1.09.016160.44LP.60	
packing unit (number)	1.09.016040.14LP.61 (20)	1.09.016080.24LP.61 (10)	1.09.016160.44LP.61 (5)	
moment of inertia cm ⁴	$I_x = 4.3$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

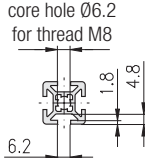

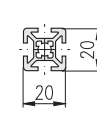
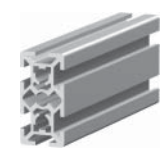
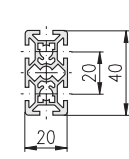
heavy				
				
				
Description	Profile 16×40, 1E, SP	Profile 16×80, 2E, SP		
bar, 6 m	1.09.016040.14SP.60	1.09.016080.24SP.60		
packing unit (number)	1.09.016040.14SP.61 (20)	1.09.016080.24SP.61 (10)		
moment of inertia cm ⁴	$I_x = 7.2$ $I_y = 1.1$	$I_x = 48.3$ $I_y = 2.2$		
moment of resistance cm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

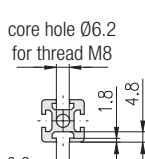

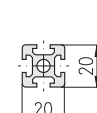
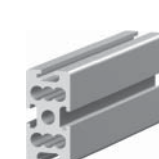
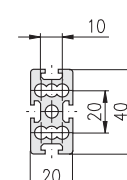
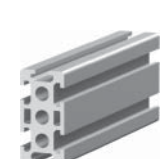
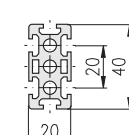
light				
  				
Description		Profile 16×40, 1F, LP		
bar, 6 m		1.10.016040.14LP.60		
packing unit (number)		1.10.016040.14LP.61 (20)		
moment of inertia	cm ⁴	$I_x = 4.4$	$I_y = 0.8$	
moment of resistance	cm ³	$W_x = 2.2$	$W_y = 0.8$	
weight	kg/m	$G = 0.87$		

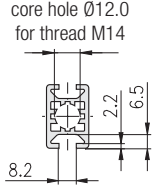



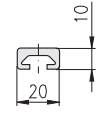
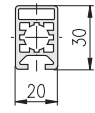
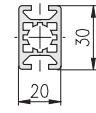
heavy				
Description				
bar, 6 m				
packing unit (number)				
moment of inertia	cm ⁴			
moment of resistance	cm ³			
weight	kg/m			

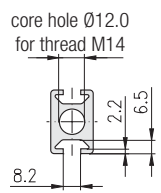


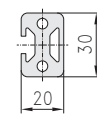
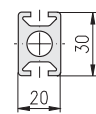
<div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;">light</div>				
				
				
Description		Profile 20×20, 2H, LP		
bar, 6 m		1.10.020020.23LP.60		
packing unit (number)		1.10.020020.23LP.61 (10)		
moment of inertia cm ⁴		$I_x = 1.0 \quad I_y = 0.8$		
moment of resistance cm ³		$W_x = 1.0 \quad W_y = 0.8$		
weight kg/m		G = 0.58		

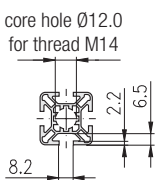

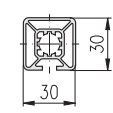
<div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block;">heavy</div>				
				
				
				
				
				
				
Description		Profile 20×20, 2H, soft, SP	Profile 20×20, 2H, corner, SP	Profile 20×20, 3H, SP
bar, 6 m		1.10.020020.21SP.60	1.10.020020.22SP.60	1.10.020020.33SP.60
packing unit (number)		1.10.020020.21SP.61 (10)	1.10.020020.22SP.61 (10)	1.10.020020.33SP.61 (10)
moment of inertia cm ⁴		$I_x = 0.6 \quad I_y = 0.6$	$I_x = 1.0 \quad I_y = 1.0$	$I_x = 0.9 \quad I_y = 0.9$
moment of resistance cm ³		$W_x = 0.6 \quad W_y = 0.6$	$W_x = 0.9 \quad W_y = 0.9$	$W_x = 0.9 \quad W_y = 0.9$
weight kg/m		G = 0.52	G = 0.68	G = 0.65

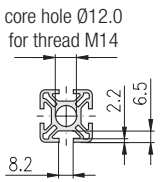

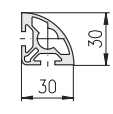
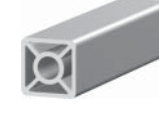
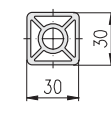
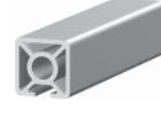
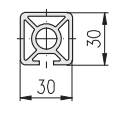

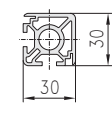
light				
	 		 	
Description	Profile 20×20, 4H, LP		Profile 20×40, 6H, LP	
bar, 6 m	1.10.020020.43LP.60		1.10.020040.64LP.60	
packing unit (number)	1.10.020020.43LP.61 (10)		1.10.020040.64LP.61 (10)	
moment of inertia cm ⁴	$I_x = 0.8$ $I_y = 0.8$		$I_x = 5.3$ $I_y = 1.4$	
moment of resistance cm ³	$W_x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




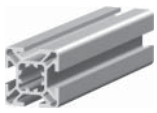
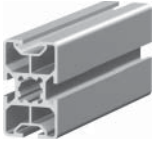




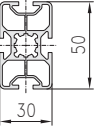
heavy				
	 	 	 	
Description	Profile 20×20, 4H, SP	Profile 20×40, 4H, SP	Profile 20×40, 6H, SP	
bar, 6 m	1.10.020020.43SP.60	1.10.020040.44SP.60	1.10.020040.64SP.60	
packing unit (number)	1.10.020020.43SP.61 (10)	1.10.020040.44SP.61 (10)	1.10.020040.64SP.61 (10)	
moment of inertia cm ⁴	$I_x = 0.9$ $I_y = 0.9$	$I_x = 7.0$ $I_y = 2.0$	$I_x = 6.4$ $I_y = 1.7$	
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	$G = 0.62$	$G = 1.3$	$G = 1.3$	










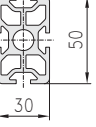
light				
				
				
Description	Profile 20×10, 1F, LP	Profile 20×30, 1F, LP		Profile 20×30, 2F, LP
bar, 6 m	1.11.020010.14LP.60	1.11.020030.14LP.60		1.11.020030.24LP.60
packing unit (number)	1.11.020010.14LP.61 (10)	1.11.020030.14LP.61 (10)		1.11.020030.24LP.61 (10)
moment of inertia cm ⁴	$I_x = 0.1$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

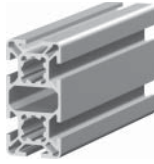
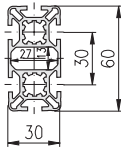
heavy				
				
				
Description			Profile 20×30, 1F, SBP	Profile 20×30, 2F, SP
bar, 6 m			1.11.020030.14SBP.60	1.11.020030.24SP.60
packing unit (number)			1.11.020030.14SBP.61(10)	1.11.020030.24SP.61 (10)
moment of inertia cm ⁴			$I_x = 3.9$ $I_y = 1.4$	$I_x = 2.6$ $I_y = 1.9$
moment of resistance cm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


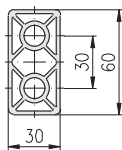
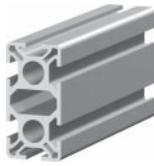
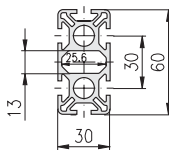

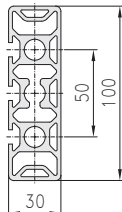
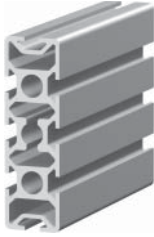
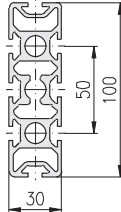
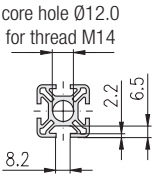
<p>light</p> 		 	
Description		Profile 30×30, 1F, LP	
bar, 6 m		1.11.030030.13LP.60	
packing unit (number)		1.11.030030.13LP.61 (10)	
moment of inertia cm ⁴		$I_x = 3.1$	$I_y = 3.1$
moment of resistance cm ³		$W_x = 2.1$	$W_y = 2.1$
weight kg/m		G = 0.9	

<p>heavy</p> 		 		 		 		 	
Description		Profile 30×30, 2F, soft, SP		Profile 30×30, 0F, SP		Profile 30×30, 1F, SP		Profile 30×30, 2F, corner, SP	
bar, 6 m		1.11.030030.21SP.60		1.11.030030.03SP.60		1.11.030030.13SP.60		1.11.030030.22SP.60	
packing unit (number)		1.11.030030.21SP.61 (10)		1.11.030030.03SP.61 (10)		1.11.030030.13SP.61 (10)		1.11.030030.22SP.61 (10)	
moment of inertia cm ⁴		$I_x = 2.7$	$I_y = 2.7$	$I_x = 4.4$	$I_y = 4.4$	$I_x = 4.3$	$I_y = 4.0$	$I_x = 3.7$	$I_y = 3.2$
moment of resistance cm ³		$W_x = 1.6$	$W_y = 1.6$	$W_x = 2.3$	$W_y = 2.3$	$W_x = 2.9$	$W_y = 2.6$	$W_x = 2.4$	$W_y = 2.1$
weight kg/m		G = 0.9		G = 1.3		G = 1.2		G = 1.1	

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

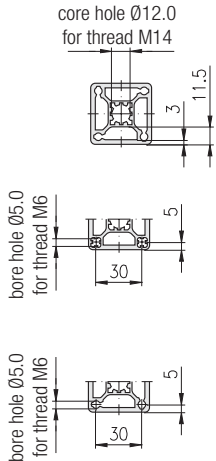
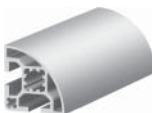
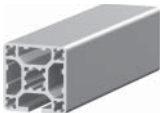
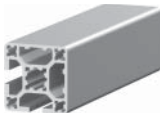
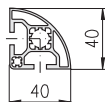
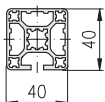
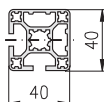
				
				
Profile 30×30, 2F, corner, SBP	Profile 30×30, 2F, SP	Profile 30×30, 3F, SP	Profile 30×30, 4F, SP	Profile 30×50, 4F, SP
1.11.030030.22SBP.60	1.11.030030.23SP.60	1.11.030030.33SP.60	1.11.030030.43SP.60	1.11.030050.44SP.60
1.11.030030.22SBP.61(10)	1.11.030030.23SP.61 (10)	1.11.030030.33SP.61 (10)	1.11.030030.43SP.61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

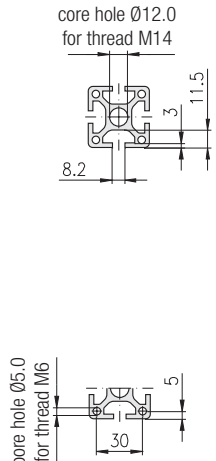


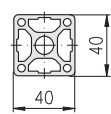
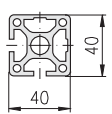
light		 		
Description		Profile 30×60, 6F, LP		
bar, 6 m		1.11.030060.64LP.60		
packing unit (number)		1.11.030060.64LP.61 (6)		
moment of inertia cm ⁴		$I_x = 21.1$ $I_y = 5.9$		
moment of resistance cm ³		$W_x = 7.4$ $W_y = 3.9$		
weight kg/m		$G = 1.6$		



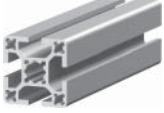

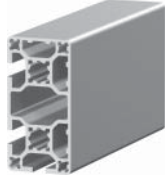
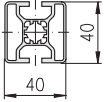
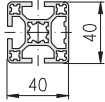
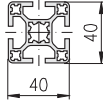
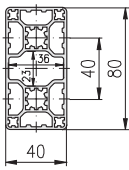
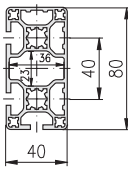
heavy	 	 	 	 	
core hole Ø12.0 for thread M14 	Description	Profile 30×60 0F, SP	Profile 30×60 6F, SP	Profile 30×100, 3F, SP	Profile 30×100, 8F, SP
bar, 6 m	1.11.030060.04SP.60	1.11.030060.65SP.60	1.11.030100.34SP.60	1.11.030100.84SP.60	
packing unit (number)	1.11.030060.04SP.61 (6)	1.11.030060.65SP.61 (6)	1.11.030100.34SP.61 (4)	1.11.030100.84SP.61 (4)	
moment of inertia cm ⁴	$I_x = 29.0$ $I_y = 7.8$	$I_x = 25.0$ $I_y = 7.0$	$I_x = 120.4$ $I_y = 12.8$	$I_x = 115.0$ $I_y = 11.6$	
moment of resistance cm ³	$W_x = 9.6$ $W_y = 5.2$	$W_x = 8.3$ $W_y = 4.7$	$W_x = 24.0$ $W_y = 8.5$	$W_x = 22.9$ $W_y = 7.7$	
weight kg/m	$G = 2.2$	$G = 2.1$	$G = 3.6$	$G = 3.4$	


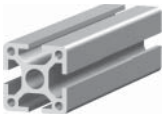
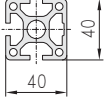
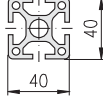
1

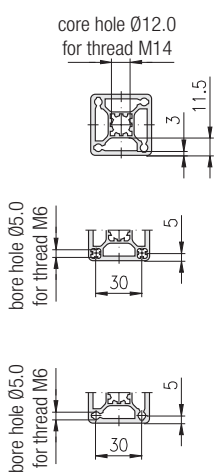
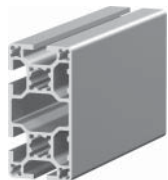
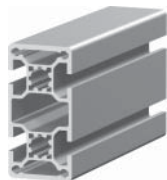
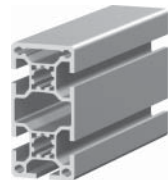
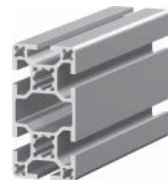
<p>core hole Ø6,2 for thread M8</p>				<p>Connection possibilities</p> <ul style="list-style-type: none"> ➤ 110, Universal connector ➤ 114, ST-Connector <p>core hole Ø12,0 for thread M14</p>
<p>Profile 30×100, 10F, SP</p>		<p>Profile 30×150, 8F, SBP</p>	<p>Profile 30×150, 8E, SP</p>	
<p>1.11.030100.104SP.60</p>		<p>1.11.030150.84SBP.60</p>	<p>1.11.030150.84SP.60</p>	
<p>1.11.030100.104SP.61 (4)</p>		<p>1.11.030150.84SBP.61 (2)</p>	<p>1.11.030150.84SP.61 (2)</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>	

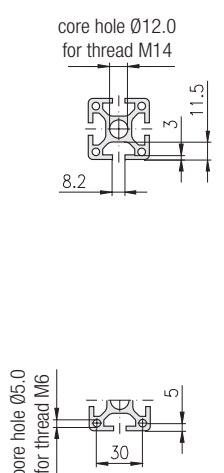
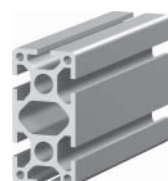
light				
				
				
Description	Profile 40×40, 2E, soft, LP		Profile 40×40, 1E, LP	Profile 40×40, 2E, corner, LP
bar, 6 m	1.11.040040.21LP.60		1.11.040040.13LP.60	1.11.040040.22LP.60
packing unit (number)	1.11.040040.21LP.61 (8)		1.11.040040.13LP.61 (8)	1.11.040040.22LP.61 (8)
moment of inertia cm ⁴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

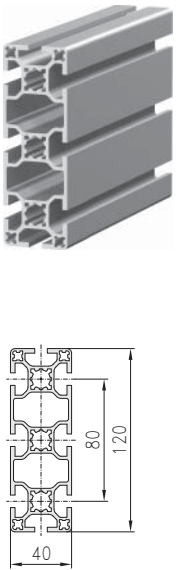
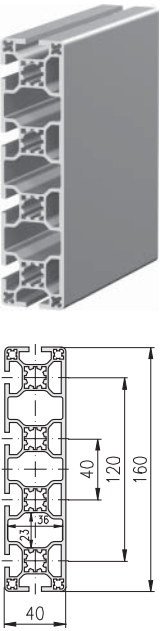
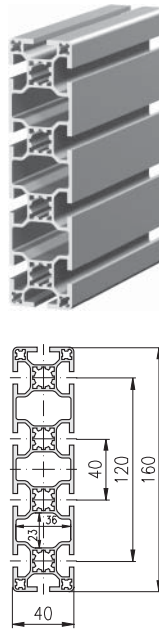
heavy				
				
				
Description	Profile 40×40, 0E, SP		Profile 40×40, 2E, corner, SP	
bar, 6 m	1.11.040040.03SP.60		1.11.040040.22SP.60	
packing unit (number)	1.11.040040.03SP.61 (8)		1.11.040040.22SP.61 (8)	
moment of inertia cm ⁴	$I_x = 12.6$ $I_y = 12.6$		$I_x = 12.0$ $I_y = 12.0$	
moment of resistance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

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

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

light				
				
Description	Profile 40×80, 4E, LP	Profile 40×80, 4E, LBP	Profile 40×80, 5E, LP	Profile 40×80, 6E, LP
bar, 6 m	1.11.040080.44LP.60	1.11.040080.44LBP.60	1.11.040080.54LP.60	1.11.040080.64LP.60
packing unit (number)	1.11.040080.44LP.61 (4)	1.11.040080.44LBP.61 (4)	1.11.040080.54LP.61 (4)	1.11.040080.64LP.61 (4)
moment of inertia cm ⁴	$I_x = 65.8$ $I_y = 18.1$	$I_x = 74.5$ $I_y = 18.3$	$I_x = 72.2$ $I_y = 18.1$	$I_x = 65.4$ $I_y = 17.5$
moment of resistance cm ³	$W_x = 16.5$ $W_y = 9.0$	$W_x = 18.6$ $W_y = 9.2$	$W_x = 18.0$ $W_y = 9.0$	$W_x = 16.4$ $W_y = 8.8$
weight kg/m	$G = 2.6$	$G = 2.8$	$G = 2.8$	$G = 2.5$

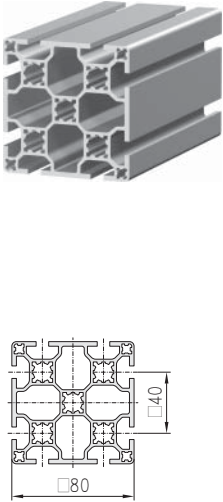
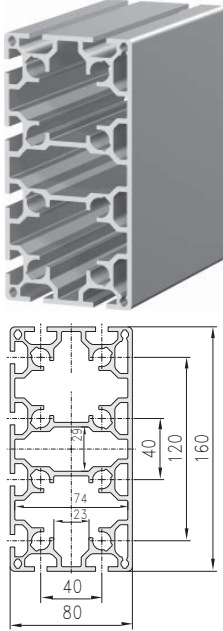
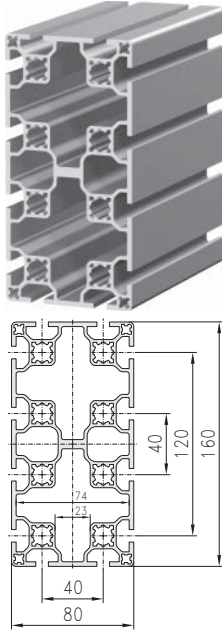
heavy				
				
Description				Profile 40×80, 6E, SP
bar, 6 m				1.11.040080.64SP.60
packing unit (number)				1.11.040080.64SP.61 (4)
moment of inertia cm ⁴				$I_x = 82.0$ $I_y = 23.4$
moment of resistance cm ³				$W_x = 20.5$ $W_y = 11.7$
weight kg/m				$G = 3.8$

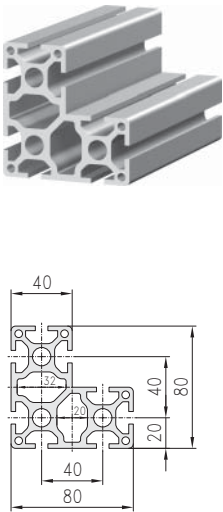
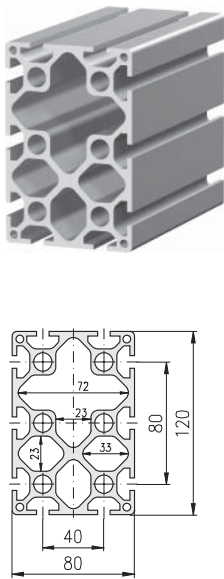
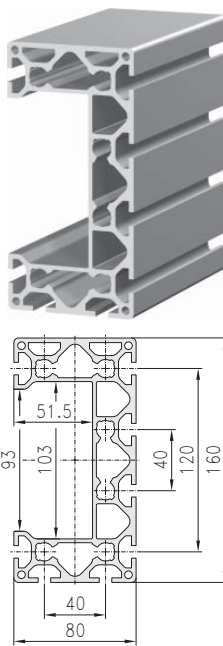
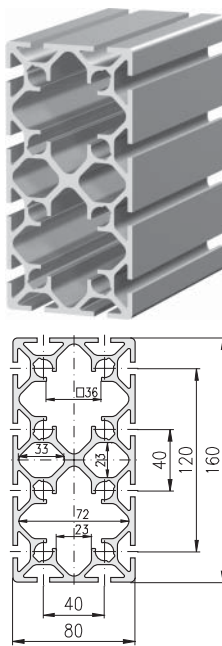
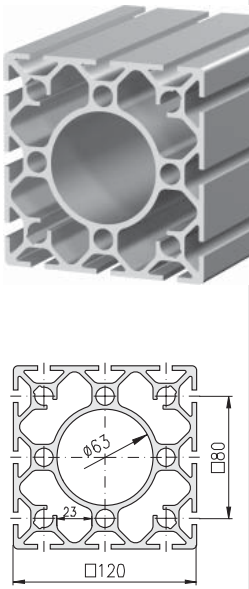
				
<p>Profile 40×120, 8E, LP</p>	<p>Profile 40×160, 6E, LP</p>	<p>Profile 40×160, 10E, LP</p>		
<p>1.11.040120.84LP.60</p>	<p>1.11.040160.64LP.60</p>	<p>1.11.040160.104LP.60</p>		
<p>1.11.040120.84LP.61 (2)</p>	<p>1.11.040160.64LP.61 (2)</p>	<p>1.11.040160.104LP.61 (2)</p>		
<p>$I_x = 200.4$ $I_y = 25.4$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



light				
Description	Profile 80×80, OE, LP	Profile 80×80, 4E, corner, LP	Profile 80×80, 6E, LP	Profile 80×80, 8E, LP
bar, 6 m	1.11.080080.03LP.60	1.11.080080.42LP.60	1.11.080080.63LP.60	1.11.080080.83LP.60
packing unit (number)	1.11.080080.03LP.61 (2)	1.11.080080.42LP.61 (2)	1.11.080080.63LP.61 (2)	1.11.080080.83LP.61 (2)
moment of inertia cm ⁴	$I_x = 135.0$ $I_y = 135.0$	$I_x = 128.0$ $I_y = 128.0$	$I_x = 121.3$ $I_y = 116.0$	$I_x = 114.0$ $I_y = 114.0$
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, SP	Profile 80×80, 8E, SP	
bar, 6 m		1.11.080080.79SP.60	1.11.080080.83SP.60	
packing unit (number)		1.11.080080.79SP.61 (2)	1.11.080080.83SP.61 (2)	
moment of inertia cm ⁴		$I_x = 162.8$ $I_y = 149.7$	$I_x = 166.0$ $I_y = 166.0$	
moment of resistance cm ³		$W_x = 40.7$ $W_y = 37.5$	$W_x = 41.4$ $W_y = 41.4$	
weight kg/m		$G = 6.2$	$G = 5.9$	

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

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

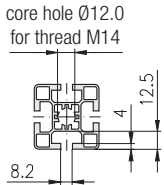
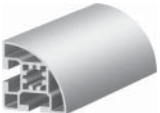
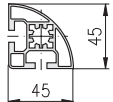

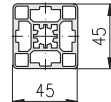

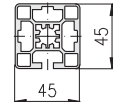

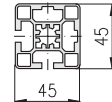
light	F-Slot			Connection possibilities and calculation formulas for polygons 1.2E
F-Slot				
core hole $\varnothing 12.0$ for thread M14 				
E3-Slot				
core hole $\varnothing 12.0$ for thread M14 				
Description	Profile 40, round 30 deg., 2F, LP	Profile 40, round 45 deg., 2E, LP	Profile 40, round 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	$G = 1.2$	$G = 1.6$	$G = 1.9$	

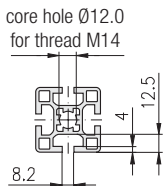
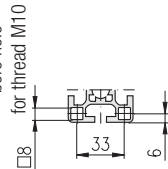
light			Connection possibilities and calculation formulas for polygons 1.2E	
core hole $\varnothing 12.0$ for thread M14 				
Description	Profile 40, round 90 deg., 2E, LP			
bar, 6 m	1.11.040R90.20LP.60			
packing unit (number)	1.11.040R90.20LP.61 (4)			
moment of inertia cm^4	$I_x = 89.0$ $I_y = 89.0$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

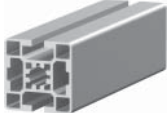
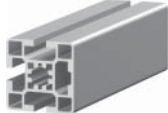
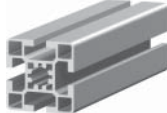
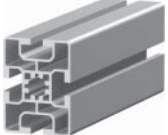
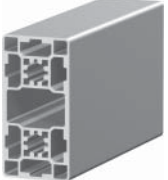
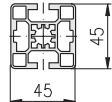
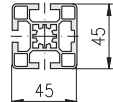
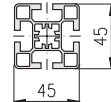
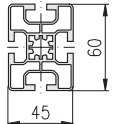
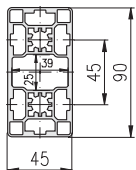
light				
Description	Profile 40×40, 2E, 45 deg., LP	Profile 80×80, 7E, 45 deg., LP		
bar, 6 m	1.11.040040.28LP.60	1.11.080080.78LP.60		
packing unit (number)	1.11.040040.28LP.61 (8)	1.11.080080.78LP.61 (2)		
moment of inertia cm ⁴	$I_x = 7.3$ $I_y = 7.3$	$I_x = 99.3$ $I_y = 99.3$		
moment of resistance cm ³	$W_x = 3.9$ $W_y = 3.9$	$W_x = 24.8$ $W_y = 24.8$		
weight kg/m	$G = 1.4$	$G = 4.0$		

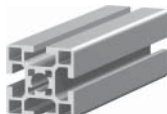

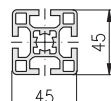
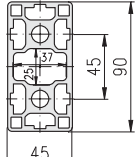
light				

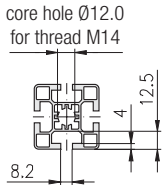
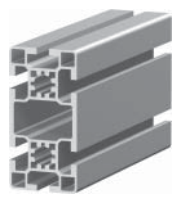
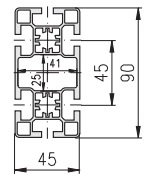
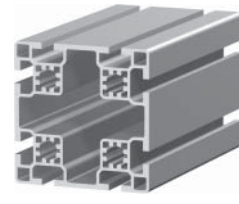
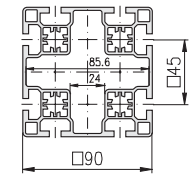


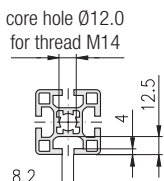
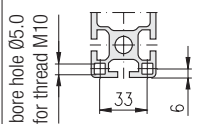
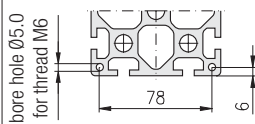
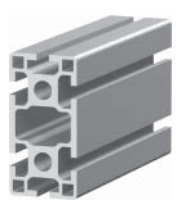
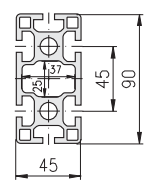
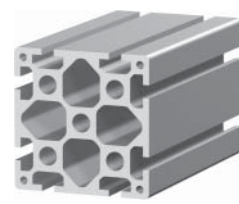
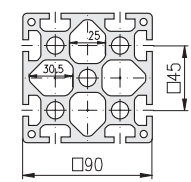
light				
	 	 	 	 
Description	Profile 45×45, 2E, soft, LP	Profile 45×45, 0E, LP	Profile 45×45, 1E, LP	Profile 45×45, 2E, corner, LP
bar, 6 m	1.11.045045.21LP.60	1.11.045045.03LP.60	1.11.045045.13LP.60	1.11.045045.22LP.60
packing unit (number)	1.11.045045.21LP.61 (8)	1.11.045045.03LP.61 (8)	1.11.045045.13LP.61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

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

				
				
Profile 45×45, 2E, LP	Profile 45×45, 3E, LP	Profile 45×45, 4E, LP	Profile 45×60, 4E, LP	Profile 45×90, 0E, LP
1.11.045045.23LP.60	1.11.045045.33LP.60	1.11.045045.43LP.60	1.11.045060.44LP.60	1.11.045090.04LP.60
1.11.045045.23LP.61 (8)	1.11.045045.33LP.61 (8)	1.11.045045.43LP.61 (8)	1.11.045060.44LP.61 (6)	1.11.045090.04LP.61 (4)
$I_x = 14.0$ $I_y = 15.5$ $W_x = 6.2$ $W_y = 6.9$ $G = 2.0$	$I_x = 14.0$ $I_y = 14.7$ $W_x = 6.2$ $W_y = 6.5$ $G = 2.1$	$I_x = 13.5$ $I_y = 13.5$ $W_x = 6.0$ $W_y = 6.0$ $G = 1.9$	$I_x = 26.5$ $I_y = 16.0$ $W_x = 9.0$ $W_y = 7.2$ $G = 2.3$	$I_x = 107.5$ $I_y = 30.4$ $W_x = 23.9$ $W_y = 13.5$ $G = 3.6$

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

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	$G = 3.3$	$G = 5.6$			

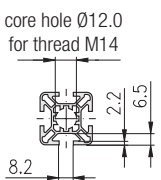

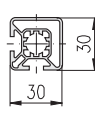
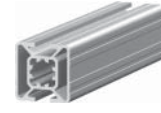
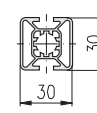

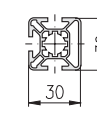
heavy					
  		 	 		
Description	Profile 45×90, 6E, SP	Profile 90×90, 8E, SP			
bar, 6 m	1.11.045090.64SP.60	1.11.090090.83SP.60			
packing unit (number)	1.11.045090.64SP.61 (4)	1.11.090090.83SP.61 (2)			
moment of inertia cm ⁴	$I_x = 126.0$ $I_y = 34.0$	$I_x = 282.0$ $I_y = 282.0$			
moment of resistance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

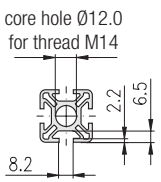

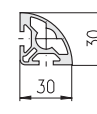

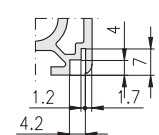
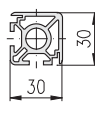
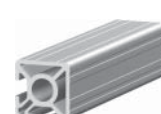
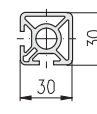
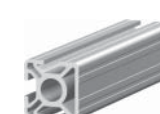
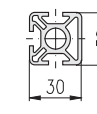
light				

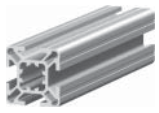
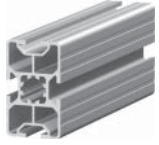
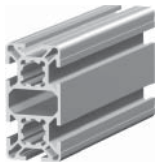
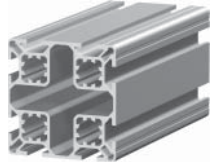

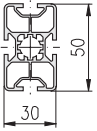
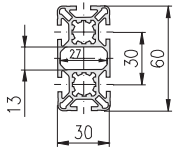
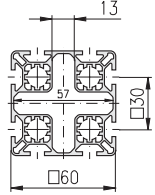
heavy			
Description	Profile 100×200, 12E, SP		
bar, 6 m	1.11.100200.124SP.60		
packing unit (number)	1.11.100200.124SP.61 (2)		
moment of inertia cm ⁴	$I_x = 2,450$ $I_y = 760$		
moment of resistance cm ³	$W_x = 250$ $W_y = 152$		
weight kg/m	$G = 17.2$		


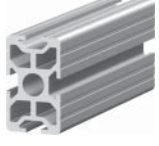

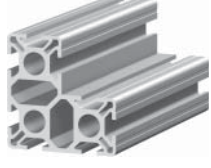

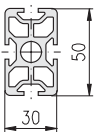
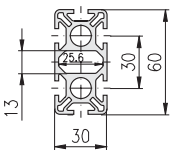
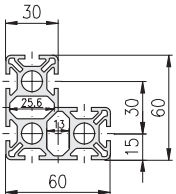
light				
<p>core hole Ø12.0 for thread M14</p>				
Description		Profile 60×60, 2E, LP	Profile 60×60, 4E, LP	
bar, 6 m		1.11.060060.23LP.60	1.11.060060.43LP.60	
packing unit (number)		1.11.060060.23LP.61 (6)	1.11.060060.43LP.61 (6)	
moment of inertia cm ⁴		$I_x = 35.1$ $I_y = 37.7$	$I_x = 35.5$ $I_y = 35.5$	
moment of resistance cm ³		$W_x = 11.7$ $W_y = 12.5$	$W_x = 11.7$ $W_y = 11.7$	
weight kg/m		$G = 2.9$	$G = 2.7$	

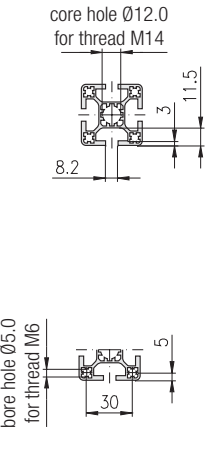
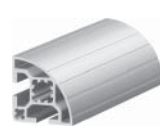
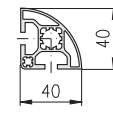
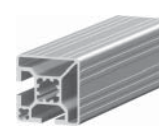
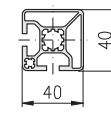
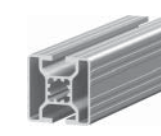
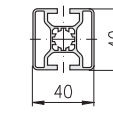
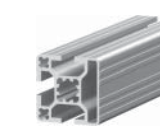
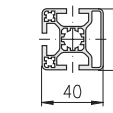
heavy				
<p>core hole Ø12.0 for thread M14</p>				
<p>bore hole for thread M14</p>				
Description	Profile 60×60, 2E, corner, SP	Profile 60×60, 2E, SP	Profile 60×60, 4E, SP	
bar, 6 m	1.11.060060.22SP.60	1.11.060060.23SP.60	1.11.060060.43SP.60	
packing unit (number)	1.11.060060.22SP.61 (6)	1.11.060060.23SP.61 (6)	1.11.060060.43SP.61 (6)	
moment of inertia cm ⁴	$I_x = 57.2$ $I_y = 57.2$	$I_x = 55.9$ $I_y = 58.5$	$I_x = 56.0$ $I_y = 56.0$	
moment of resistance cm ³	$W_x = 19.1$ $W_y = 19.1$	$W_x = 18.6$ $W_y = 19.5$	$W_x = 18.7$ $W_y = 18.7$	
weight kg/m	$G = 4.3$	$G = 4.3$	$G = 4.2$	

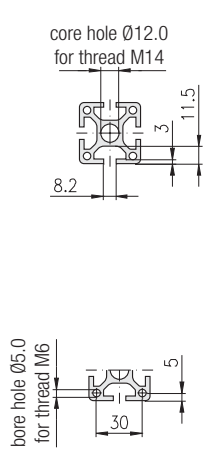
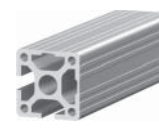
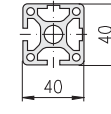
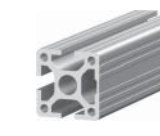
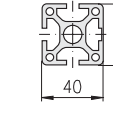
light				
	 	 	 	
Description		Profile 30×30, 2F, corner, L	Profile 30×30, 2F, L	Profile 30×30, 3F, L
bar, 6 m		1.11.030030.22L.60	1.11.030030.23L.60	1.11.030030.33L.60
packing unit (number)		1.11.030030.22L.61 (10)	1.11.030030.23L.61 (10)	1.11.030030.33L.61 (10)
moment of inertia cm ⁴		$I_x = 3.2$ $I_y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

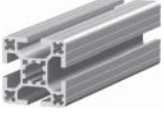
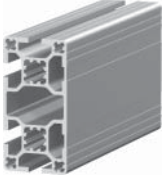
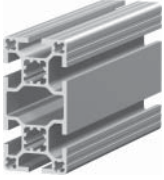
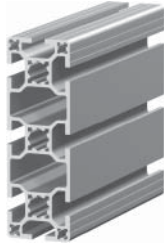
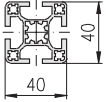
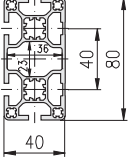
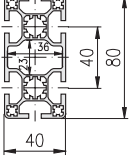
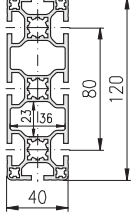
heavy				
	 	  	 	 
Description	Profile 30×30, 2F, soft, S	Profile 30×30, 2F, corner, S	Profile 30×30, 2F, corner, SB	Profile 30×30, 3F, S
bar, 6 m	1.11.030030.21S.60	1.11.030030.22S.60	1.11.030030.22SB.60	1.11.030030.33S.60
packing unit (number)	1.11.030030.21S.61 (10)	1.11.030030.22S.61 (10)	1.11.030030.22SB.61 (10)	1.11.030030.33S.61 (10)
moment of inertia cm ⁴	$I_x = 2.7$ $I_y = 2.7$	$I_x = 3.7$ $I_y = 3.2$	$I_x = 3.7$ $I_y = 3.7$	$I_x = 3.5$ $I_y = 3.7$
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	$G = 0.9$	$G = 1.1$	$G = 1.1$	$G = 1.1$

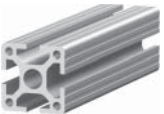
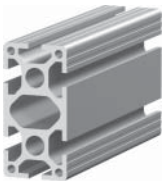
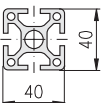
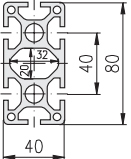
				
				
Profile 30×30, 4F, L	Profile 30×50, 4F, L	Profile 30×60, 6F, L	Profile 60×60, 8F, L	
1.11.030030.43L.60	1.11.030050.44L.60	1.11.030060.64L.60	1.11.060060.83L.60	
1.11.030030.43L.61 (10)	1.11.030050.44L.61 (6)	1.11.030060.64L.61 (6)	1.11.060060.83L.61 (8)	
$I_x = 3.3$ $I_y = 3.3$ $W_x = 2.2$ $W_y = 2.2$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

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

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

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

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

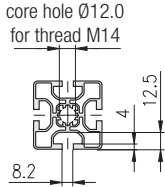
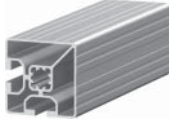
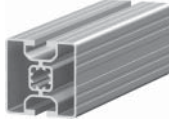
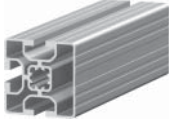
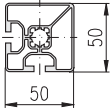
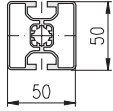
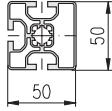
				
				
Profile 40×40, 4E, S		Profile 40×80, 6E, S		
1.11.040040.43S.60		1.11.040080.64S.60		
1.11.040040.43S.61 (8)		1.11.040080.64S.61 (4)		
$I_x = 12.0$ $I_y = 12.0$ $W_x = 6.0$ $W_y = 6.0$ $G = 2.0$		$I_x = 82.0$ $I_y = 23.4$ $W_x = 20.5$ $W_y = 11.7$ $G = 3.8$		

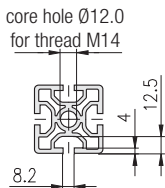
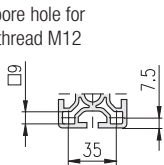
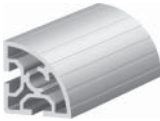
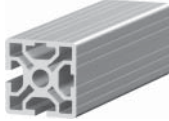
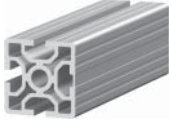
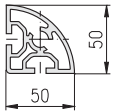
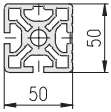
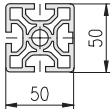
light				
Description	Profile 80×80, 8E, L	Profile 80×80, 8E, LB	Profile 80×160, 12E, L	
bar, 6 m	1.11.080080.83L.60	1.11.080080.83LB.60	1.11.080160.124L.60	
packing unit (number)	1.11.080080.83L.61 (2)	1.11.080080.83LB.61 (2)	1.11.080160.124L.61 (2)	
moment of inertia cm ⁴	$I_x = 111.0$ $I_y = 111.0$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

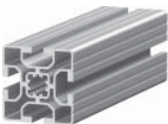
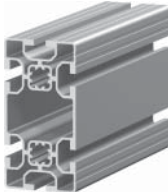
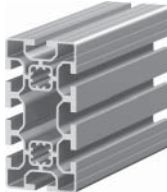
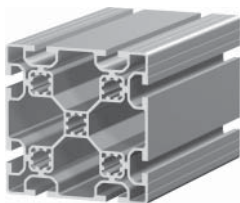
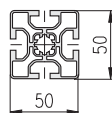
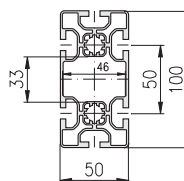
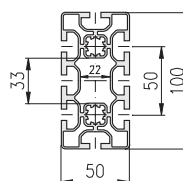
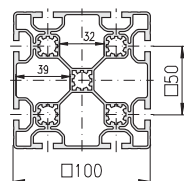
heavy				
Description	Profile 80×80, 8E, S	Profile 80×80, 8E, angle, S	Profile 80×160, 12E, S	
bar, 6 m	1.11.080080.83S.60	1.11.080080.87S.60	1.11.080160.124S.60	
packing unit (number)	1.11.080080.83S.61 (2)	1.11.080080.87S.61 (2)	1.11.080160.124S.61 (2)	
moment of inertia cm ⁴	$I_x = 166.0$ $I_y = 166.0$	$I_x = 120.0$ $I_y = 120.0$	$I_x = 880.0$ $I_y = 268.0$	
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	$G = 5.9$	$G = 5.4$	$G = 9.4$	

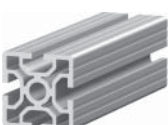
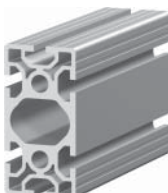
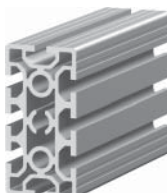
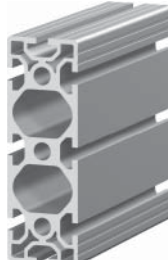
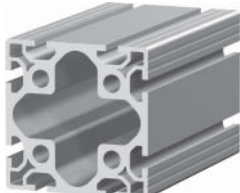
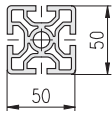
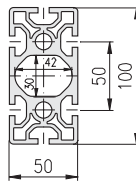
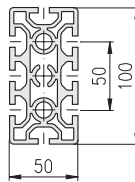
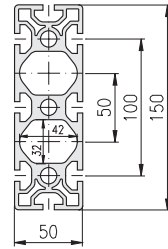
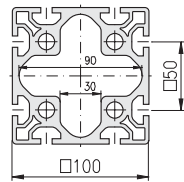
light				
Description	Profile 45×45, 4E, L	Profile 45×60, 4E, L	Profile 45×90, 6E, L	
bar, 6 m	1.11.045045.43L.60	1.11.045060.44L.60	1.11.045090.64L.60	
packing unit (number)	1.11.045045.43L.61 (8)	1.11.045060.44L.61 (6)	1.11.045090.64L.61 (4)	
moment of inertia cm ⁴	$I_x = 13.5$ $I_y = 13.5$	$I_x =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

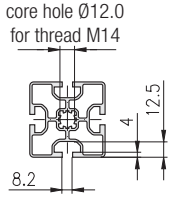
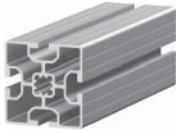
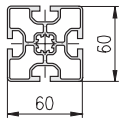
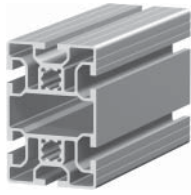
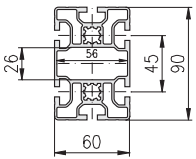
heavy				
Description	Profile 45×45, 4E, S		Profile 45×90, 6E, S	
bar, 6 m	1.11.045045.43S.60		1.11.045090.64S.60	
packing unit (number)	1.11.045045.43S.61 (8)		1.11.045090.64S.61 (4)	
moment of inertia cm ⁴	$I_x = 16.8$ $I_y = 16.8$		$I_x = 126.0$ $I_y = 34.0$	
moment of resistance cm ³	$W_x = 7.4$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

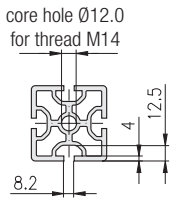
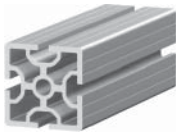
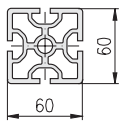
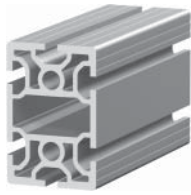
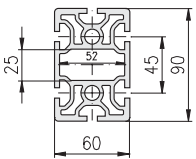
<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; display: inline-block; margin-bottom: 10px;">light</div>				
				
				
				
Description		Profile 50×50, 2E, corner, L	Profile 50×50, 2E, L	Profile 50×50, 3E, L
bar, 6 m		1.11.050050.22L.60	1.11.050050.23L.60	1.11.050050.33L.60
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

<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; display: inline-block; margin-bottom: 10px;">heavy</div>				
 				
				
				
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	$I_x = 18.8$ $I_y = 18.8$	$I_x = 27.4$ $I_y = 27.4$		$I_x = 27.3$ $I_y = 28.2$
moment of resistance cm ³	$W_x = 7.5$ $W_y = 7.5$	$W_x = 10.9$ $W_y = 10.9$		$W_x = 11.1$ $W_y = 11.1$
weight kg/m	G = 2.3	G = 3.0		G = 3.1

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

				
				
Profile 50×50, 4E, S	Profile 50×100, 6E, S	Profile 50×100, 8E, S	Profile 50×150, 8E, S	Profile 100×100, 8E, S
1.11.050050.43S.60	1.11.050100.65S.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)
$I_x = 27.3$ $I_y = 27.3$ $W_x = 11.0$ $W_y = 11.0$ $G = 3.1$	$I_x = 202.0$ $I_y = 57.2$ $W_x = 40.4$ $W_y = 22.8$ $G = 5.9$	$I_x = 200.0$ $I_y = 53.3$ $W_x = 39.9$ $W_y = 21.3$ $G = 6.0$	$I_x = 628.0$ $I_y = 83.0$ $W_x = 83.0$ $W_y = 33.0$ $G = 8.1$	$I_x = 411.0$ $I_y = 411.0$ $W_x = 82.0$ $W_y = 82.0$ $G = 9.7$

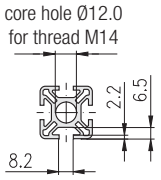
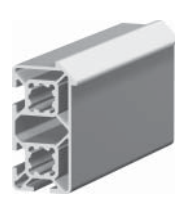
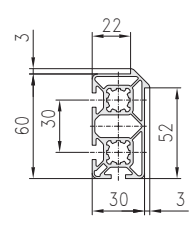
light					
		 	 		
Description	Profile 60×60, 4E, L	Profile 60×90, 6E, L			
bar, 6 m	1.11.060060.43L.60	1.11.060090.64L.60			
packing unit (number)	1.11.060060.43L.61 (6)	1.11.060090.64L.61 (3)			
moment of inertia cm ⁴	$I_x = 35.5$ $I_y = 35.5$	$I_x = 125.8$ $I_y = 54.3$			
moment of resistance cm ³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

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

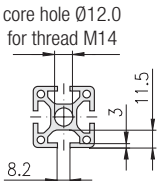
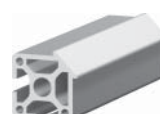
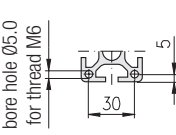
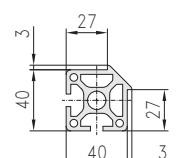
heavy				
Description	Profile 48, round, 1E, SP	Profile 48, round, 2E, corner, SP	Profile 48, round, 2E, SP	
bar, 6 m	1.11.048R00.10SP.60	1.11.048R00.22SP.60	1.11.048R00.20SP.60	
packing unit (number)	1.11.048R00.10SP.61 (6)	1.11.048R00.22SP.61 (6)	1.11.048R00.20SP.61 (6)	
moment of inertia cm ⁴	$I_x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

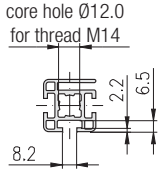


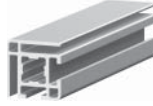
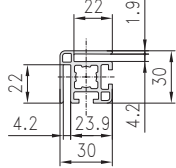
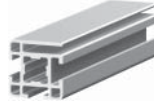
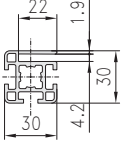
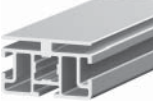
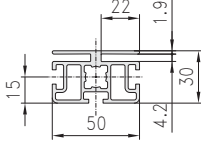
Profiles octagonal, P (plain)

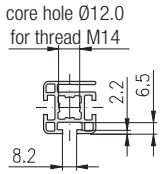
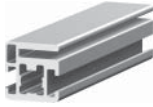
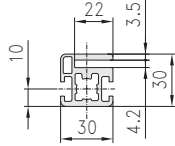
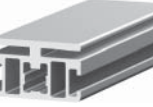
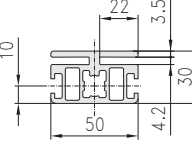
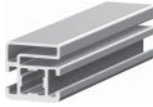
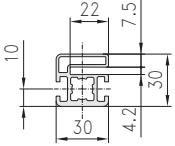
heavy				
Description	Profile 30, octagonal, 8F, SP	Profile 40, octagonal, 8E, SP		
bar, 6 m	1.11.0308kt.89SP.60	1.11.0408kt.89SP.60		
packing unit (number)	1.11.0308kt.89SP.61 (2)	1.11.0408kt.89SP.61 (2)		
moment of inertia cm ⁴	$I_x = 84.0$ $I_y = 84.0$	$I_x = 176.6$ $I_y = 176.6$		
moment of resistance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

<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; display: inline-block;">light</div>				
				
				
Description		Panel bazel profile 30×60, 3E, 45°, LP		
bar, 6 m		1.13.030060.39LP.60		
packing unit (number)		1.13.030060.39LP.61 (4)		
moment of inertia cm ⁴		$I_x = 22.8$ $I_y = 6.1$		
moment of resistance cm ³		$W_x = 7.6$ $W_y = 4.0$		
weight kg/m		$G = 1.7$		

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

<div style="border: 1px solid black; border-radius: 10px; padding: 2px 10px; display: inline-block;">heavy</div>				
				
				
Description		Panel bazel profile 40×40, 2E, 45°, SP		
bar, 6 m		1.13.040040.29SP.60		
packing unit (number)		1.13.040040.29SP.61 (8)		
moment of inertia cm ⁴		$I_x = 12.1$ $I_y = 12.1$		
moment of resistance cm ³		$W_x = 6.1$ $W_y = 6.1$		
weight kg/m		$G = 2.1$		

<div style="border: 1px solid black; border-radius: 5px; padding: 5px; width: fit-content; margin-bottom: 10px;">light</div> 	 	 	 	 	
	Description	Panel profile 30×30, OF, LP	Panel profile 30×30, 2F, corner, LP 4	Panel profile 30×30, 3F, LP 4	Panel profile 30×50, 3F, LP 4
	bar, 6 m	1.14.030030.03LP0.60	1.14.030030.22LP4.60	1.14.030030.33LP4.60	1.14.030050.34LP4.60
	packing unit (number)	1.14.030030.03LP0.61(10)	1.14.030030.22LP4.61(10)	1.14.030030.33LP4.61(10)	1.14.030050.34LP4.61 (6)
	moment of inertia cm ⁴ 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

<div style="border: 1px solid black; border-radius: 5px; padding: 5px; width: fit-content; margin-bottom: 10px;">light</div> 	 	 	 	
	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

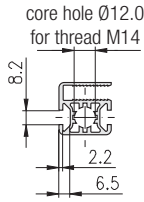
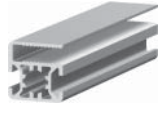
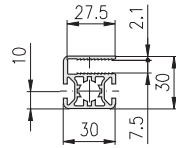
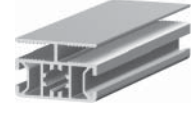
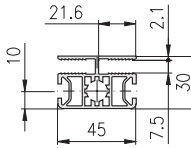
<p>light</p>					
	Description	Panel profile 40×40, 2E, corner, LP 4	Panel profile 40×40, 3E, LP 4	Panel profile 40×60, 3E, LP 4	Panel profile 60×80, 5E, LP 4
	bar, 6 m	1.14.040040.22LP4.60	1.14.040040.33LP4.60	1.14.040060.34LP4.60	1.14.060080.54LP4.60
	packing unit (number)	1.14.040040.22LP4.61 (8)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

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

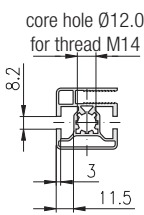
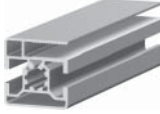
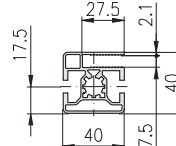
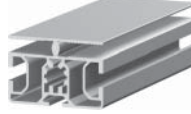
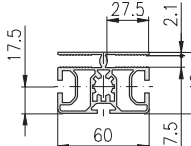
light				
<p>core hole Ø12.0 for thread M14</p>				
Description	Panel profile 50×50, 2E, corner, LP 4	Panel profile 50×50, 3E, LP 4		
bar, 6 m	1.14.050050.22LP4.60	1.14.050050.39LP4.60		
packing unit (number)	1.14.050050.22LP4.61 (6)	1.14.050050.39LP4.61 (6)		
moment of inertia cm ⁴	$I_x = 19.4$ $I_y = 19.4$	$I_x = 24.1$ $I_y = 21.4$		
moment of resistance cm ³	$W_x = 7.6$ $W_y = 7.6$	$W_x = 8.0$ $W_y = 8.5$		
weight kg/m	$G = 2.4$	$G = 2.7$		



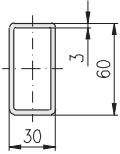
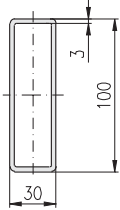
light				



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



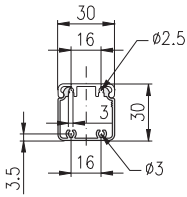
Wire net profiles 40, F / E3-slot, P (plain)

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



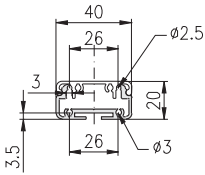

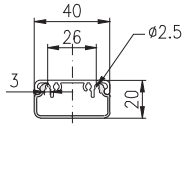

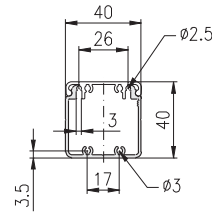

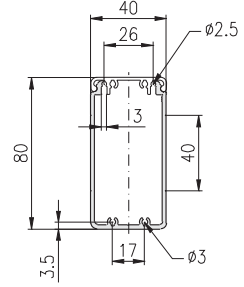
light	 			
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised				
Description	Tube profile 30×60, LP	Tube profile 30×100, LP		
bar, 6 m	1.17.030060.04LP.60	1.17.030100.04LP.60		
packing unit (number)	1.17.030060.04LP.61 (6)	1.17.030100.04LP.61 (4)		
moment 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	$G = 1.47$	$G = 2.20$		

light				





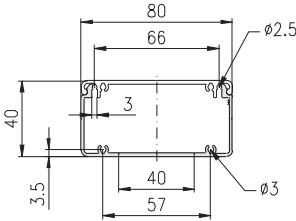
Cover profile 30			Description	E-trunking profile, lid 30
			bar, 6 m	1.19.2030D.60
			packing unit (number)	1.19.2030D.61 (8)
			cut to length	1.19.2030D-A00A00/...
			weight kg/m	G = 0.24
Base profiles 30	 		Description	E-trunking profile 30×30
			bar, 6 m	1.19.203030G.60
			packing unit (number)	1.19.203030G.61 (8)
			cut to length	1.19.203030G-A00A00/...
			weight kg/m	G = 0.38
Technical data				
material:	Al Mg Si 0.5 F25			
tensile strength:	250 N/mm ²			
surface:	natural anodised			

End plates  318



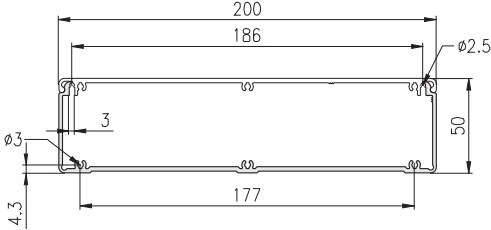
Cover profile 40					Description	E-trunking profile, lid 40							
					bar, 6 m	1.19.2040D.60							
					packing unit (number)	1.19.2040D.61 (8)							
					cut to length	1.19.2040D-A00A00/...							
					weight kg/m	G = 0.35							
Base profiles 40	 		 		 		 						
									Description	E-trunking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

End plates  318

(/... = Length in mm)


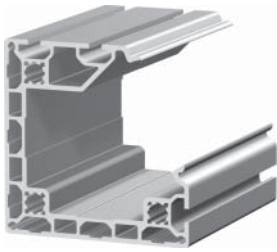
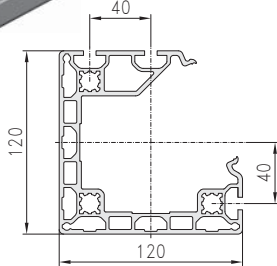
Cover profile 80		Description	E-trunking profile, lid 80
		bar, 6 m	1.19.2080D.60
Base profiles 80	 	packing unit (number)	1.19.2080D.61 (4)
		cut to length	1.19.2080D-F00F00/...
Technical data		weight	kg/m G = 0.59
		Description	E-trunking profile 80x40
		bar, 6 m	1.19.208040G.60
		packing unit (number)	1.19.208040G.61 (4)
		cut to length	1.19.208040G-F00F00/...
		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)
		cut to length	1.19.208080G-F00F00/...
		weight	kg/m G = 1.55

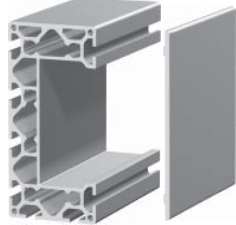
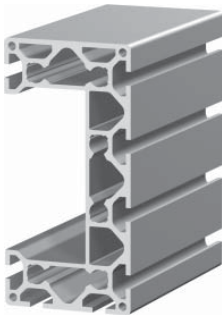
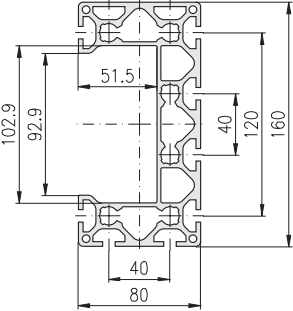

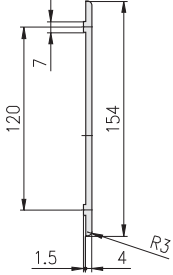
End plates  318

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/...
Technical data		weight	kg/m G = 1.50
		Description	E-trunking profile 200x50
		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

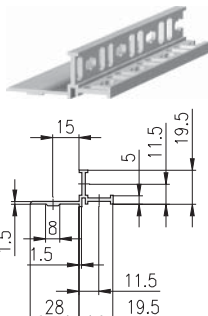
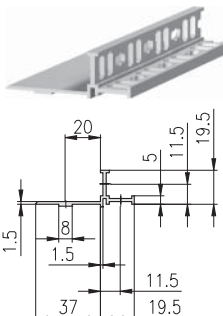
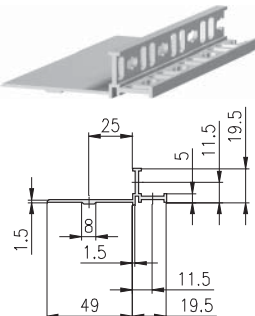
End plates  318

(/... = Length in mm)



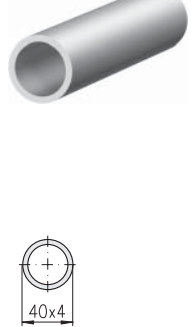
Cover profile 80 	 	Description	E-trunking profile, lid 80
		bar, 6 m	1.19.2080D.60
		packing unit (number)	1.19.2080D.61 (4)
		cut to length	1.19.2080D-F00F00/...
		weight kg/m	G = 0.59
Base profile 120 Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised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





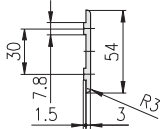
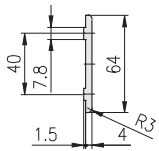
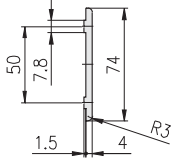
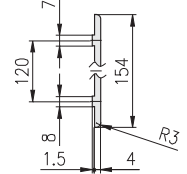
E-trunking profile 160 	Base profile: Profile 80×160, 8E, SP ↗ 27, 316-319  		Cover profile: Profile pre-cut lid 120 ↗ 56, 316-319  
	Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised		
Description		Profile 80×160, 8E, SP	Profile pre-cut lid 120
bar, 6 m		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	

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

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



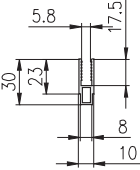
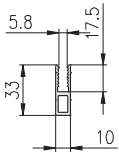
Tubes
1.19



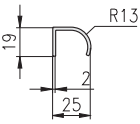
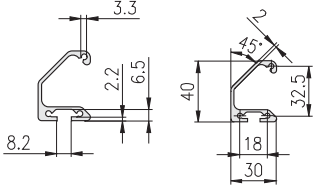
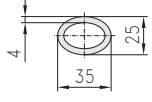
Tubes					
Technical data material: Al Mg Si 0.5 F22 extruded profiles as per DIN 755-9 tensile strength: 250 N/mm ² surface: natural anodised					
	Description	Tube Ø20×2	Tube Ø30×3	Tube Ø40×4	
	bar, 6 m	1.19.16120.60	1.19.16130.60	1.19.16140.60	
	cut to length	1.19.16120-A00A00/...	1.19.16130-A00A00/...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

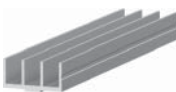
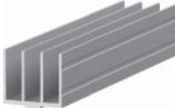


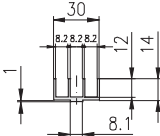
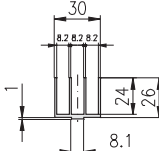
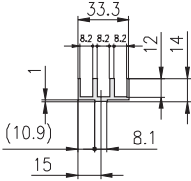
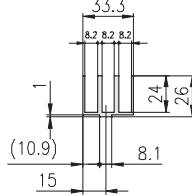
Profile pre-cut lids					
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised					
Description		Profile pre-cut lid 30	Profile pre-cut lid 40	Profile pre-cut lid 50	Profile pre-cut lid 120
bar, 6 m		1.19.110130.60	1.19.110140.60	1.19.110150.60	1.19.110120.60
cut to length		1.19.110130-A00A00/...	1.19.110140-A00A00/...	1.19.110150-F00F00/...	1.19.110120-L00L00/...
weight	kg/m	G = 0.49	G = 0.74	G = 0.85	G = 1.80

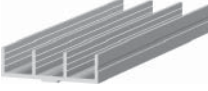
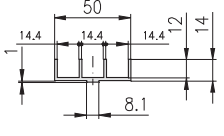
Application


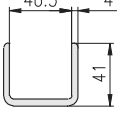
 E-trunking profiles,
 52, 316-319

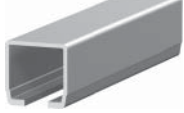
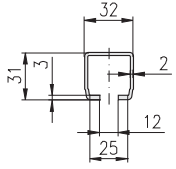
Wire net mounting profiles					
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised					
Description		Wire net mounting profile	Wire net mounting profile 33×10		
bar, 6 m		1.19.14230.60	1.19.1423310.60		
cut to length		1.19.14230-A00A00/...	1.19.1423310-A00A00/...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

Grab handle profiles		F-slot		Oval tube
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	Oval tube 35×4
bar, 6 m		1.19.14319.60	1.19.14330.60	1.19.14535.30
cut to length		1.19.14319-A00A00/...	1.19.14330-A00A00/...	1.19.14535-A00A00/...
weight	kg/m	G = 0.3	G = 0.73	G = 0.83

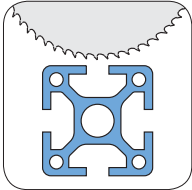
Sliding profiles					
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised					
Description	Sliding profile 30x14	Sliding profile 30x26	Sliding profile 33x14	Sliding profile 33x26	
bar, 6 m	1.19.15130.60	1.19.15131.60	1.19.15133.60	1.19.15134.60	
cut to length	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					
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised					
Description	Sliding profile 50x14				
bar, 6 m	1.19.15150.60				
cut to length	1.19.15150-A00A00/...				
weight	kg/m G = 0.6				

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

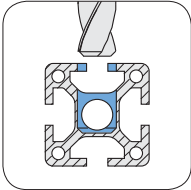
C-track		
Technical data material: Al Mg Si 0.5 F25 tensile strength: 250 N/mm ² surface: natural anodised		
Description	C-track	
bar, 6 m	1.19.14532.60	
cut to length	1.19.14532-A00A00/...	
weight	kg/m G = 0.6	

Summary



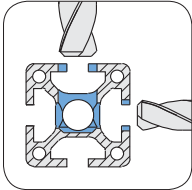
Saw cut

↔ 59



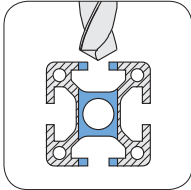
Cross bushing bores for connectors

↔ 60



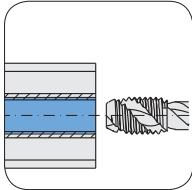
Bores for parallel-connector

↔ 60



Cross bore

↔ 60



Thread

↔ 60

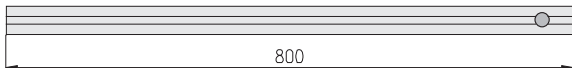
Comments

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

Order description

Profile	machining	profile side	
	left right		
Order-No.: 1.□□.□□□□□□.□□□□ -	□□□□□□ / □□□□		
	□□□□□□ / □□□□	saw cut	↔ 59
	□□□□□□ / □□□□	cross bushing bores, bores for parallel-connector, cross bore, thread	↔ 60
	□□□□□□ / □□□□	direction	↔ 61
	□□□□□□ / □□□□	length in mm	

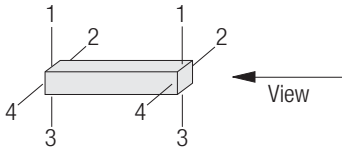
Order example



Description Profile 40×40, 4E-slots, S Length: 800 mm right side: 1 connector bore	Article-No. 1.11.040040.43S-A00AA4/800	Article-Description Profile 40×40, 4E-slots, S □□□□ Specifications for special profile machining
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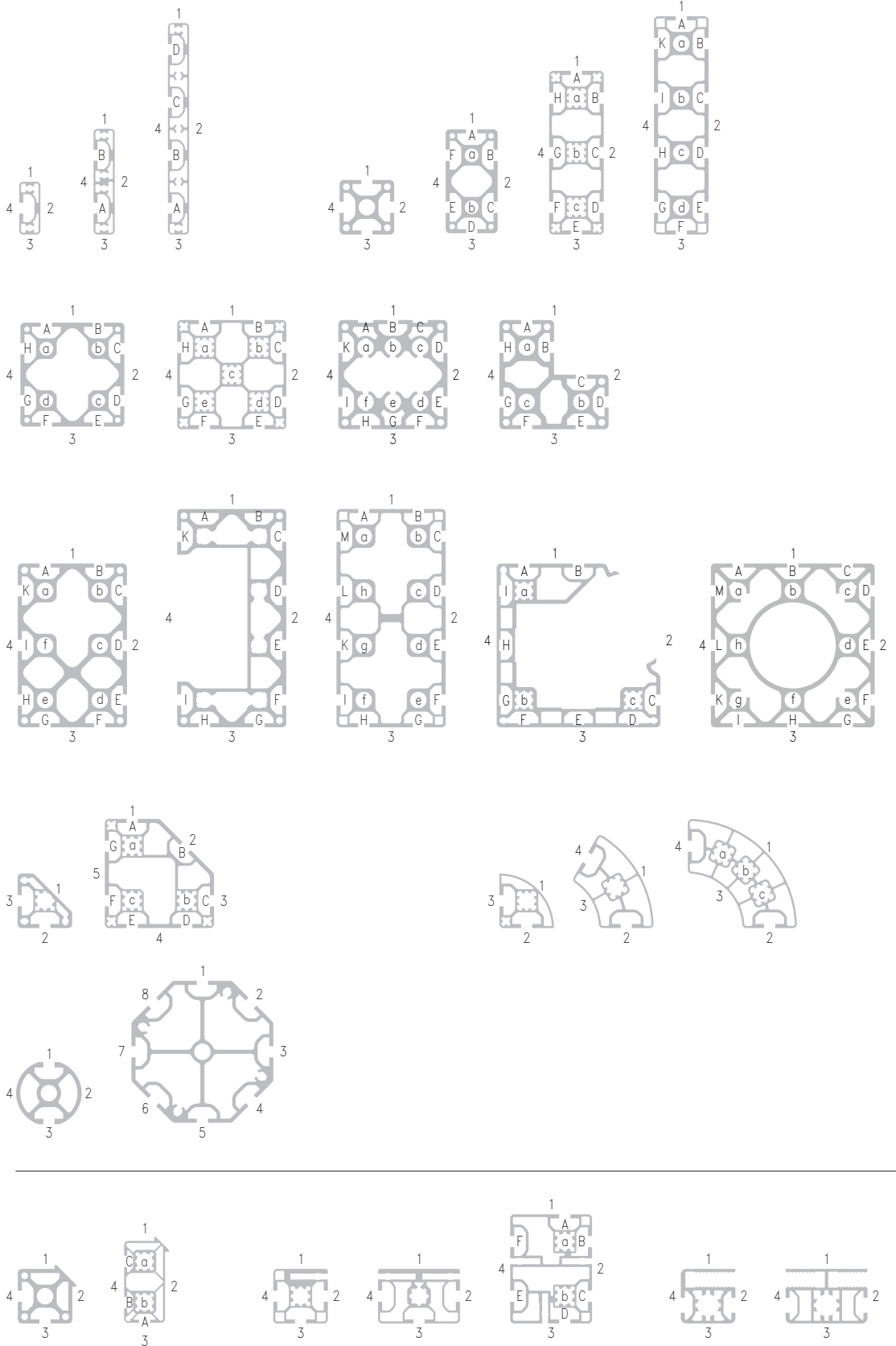
coding examples ↔ 1.1B

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




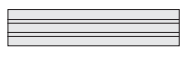


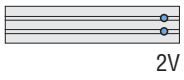
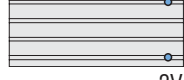

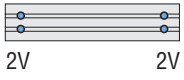
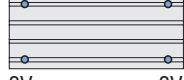
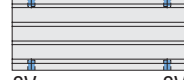
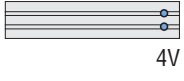
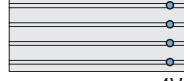
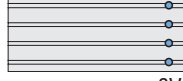
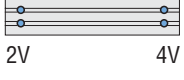



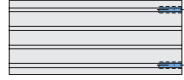
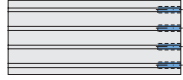
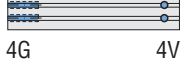
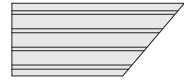
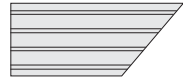
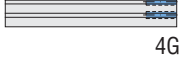
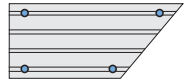
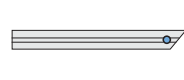
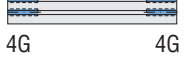
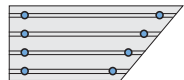
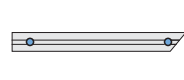

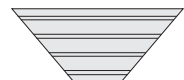


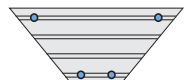


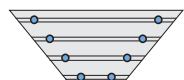
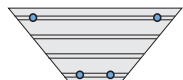
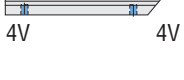
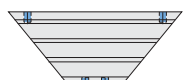
V = connector bore, G = thread, Q = cross bore

Coding examples for price group 2			
-F00F00	-F00F00		-F00F00
-F00FA4 1V	-F00FB4 2V	-F00FB1 2V	-F00FB4 2V
-FA4FA4 1V 1V	-FB4FB4 2V 2V	-FB1FB1 2V 2V	-FB4FB4 2V 2V
-F00FLO 1G	-F00FLO 1G		-F00FD2 4V
-FLOFLO 1G 1G	-FLOFLO 1G 1G		-FB4FD2 2V 4V
-FLOFA4 1G 1V	-FLOFB4 1G 2V	-FLOFB1 1G 2V	-FD2FD2 4V 4V
-F00FQ1 1Q	-FM0FB4 2G 2V	-FM0FB1 2G 2V	-FP0FD2 4G 4V
-FA4FQ1 1V 1Q	-F00FM0 2G		-F00FP0 4G
-FQ1FQ1 1Q 1Q	-FM0FM0 2G 2G		-FP0FP0 4G 4G
-FLOFQ1 1G 1Q	-FLOFM0 1G 2G		-F00H00
-F00H00	-F00H00	top view -F00K00	-F00HD2 4V
-F00HA4 1V	-F00HB4 2V	-F00KB1 2V	-FD2HD2 4V 4V
-FA4HA4 1V 1V	-FB4HB4 2V 2V	-FB1KB1 2V 2V	-FD1HD1 4V 4V
-FLOHA4 1G 1V	-FLOHB4 1G 2V	-FLOKB1 1G 2V	-H00H00
-H00H00	-H00H00	-K00K00	-HD2HD2 4V 4V
-HA4HA4 1V 1V	-HB4HB4 2V 2V	-KB1KB1 2V 2V	-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	 -L00N00
 -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 Rm: min. 250 N/mm²
 Elongation 0.2: min. 200 N/mm²
 Pressure tension $\sigma_{zul.}$: 95 N/mm²
 Stress point A₅: min. 10 %
 Stress point A₁₀: min. 8 %
 E-Module: approx. 70,000 N/mm²
 Brinell hardness: approx. 75 HB 2.5/187.5
 Co-efficient of elongation: 23.8 x 10⁻⁶/K

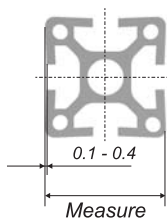
Surface as per DIN 17611:
 E6/EV1 - dull finish and anodised colours
 Coat thickness approx. 10 μ m
 Coat hardness 250-350 HV
 Special colours upon request.
 The surface area - subject to technical procedure
 - can show optical changes.

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.

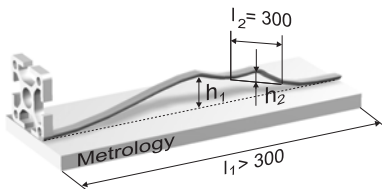
Profile tolerance		
Dim. range in mm		Tolerance in mm
from	to	
-	10	± 0.15
10	15	± 0.20
15	30	± 0.25
30	45	± 0.30
45	60	± 0.40
60	90	± 0.45
90	120	± 0.60
120	150	± 0.80
150	180	± 1.00
180	240	± 1.20
240	300	± 1.50

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.

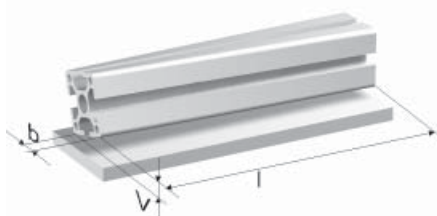
Straightness tolerance
 of the edge in longitudinal direction



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.

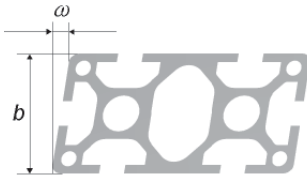
Straightness tolerance		
Length l_1 in m		Tolerance h_1 in mm
from	to	
-	1	0.7
1	2	1.3
2	3	1.8
3	4	2.2
4	5	2.6
5	6	3.0

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 mm⁴
- E = Module of elasticity in N/mm²
- E_{AL} = 70,000 N/mm²

1) Comments

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

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

2) approximate value

Approximate determination of deflection

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

Profile length l in mm

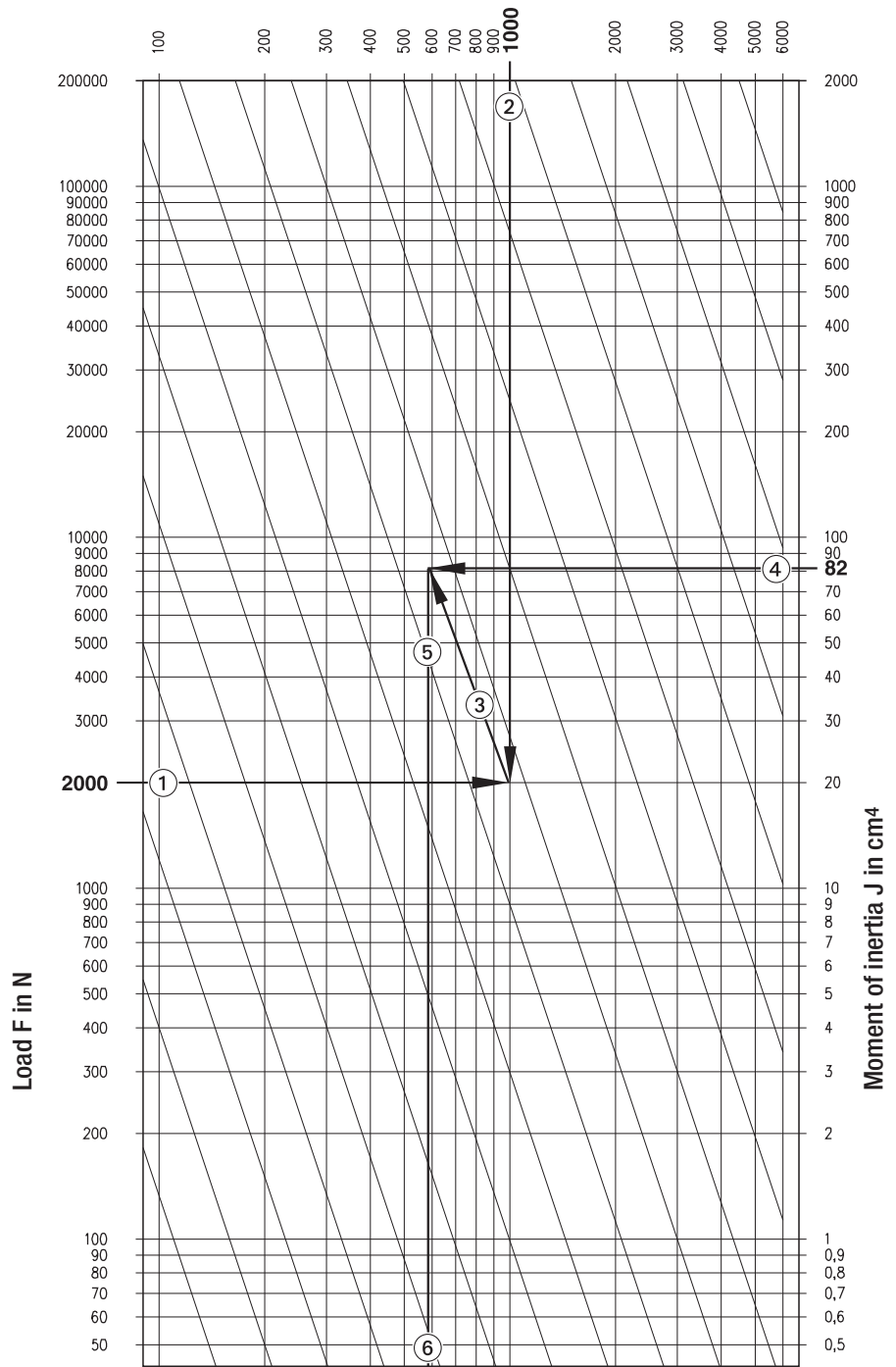
Determination of deflection

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

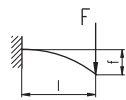
Example

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

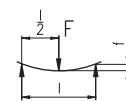
Type of load 1: $f = 9.5 \text{ mm}$
 Type of load 4: $f = 0.6 \text{ mm}$
 Type of load 8: $f = 0.15 \text{ mm}$



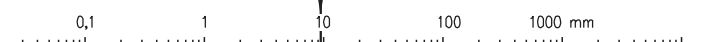
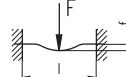
Type of load 1



Type of load 4



Type of load 8



Deflection f in mm



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

















Profile	lx ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	↳
16x40, 1F, LP	4.4	0.8	2.2	0.8	0.87	14
16x40, 1E, LP	4.3	0.8	2.2	0.8	0.75	13
16x40, 1E, SP	7.2	1.1	3.6	1.1	1.14	13
16x80, 2E, LP	30.7	1.6	7.7	1.6	1.49	13
16x80, 2E, SP	48.3	2.2	12.0	2.2	2.11	13
16x160, 4E, LP	221.0	3.2	27.5	3.2	2.6	13
20x10, 1F, LP	0.1	0.6	0.2	0.5	0.35	17
20x20, 2H, soft, SP	0.6	0.6	0.6	0.6	0.52	15
30x30, 2F, soft, SP	2.7	2.7	1.6	1.6	0.9	18
2F, soft, S	2.7	2.7	1.6	1.6	0.9	36
40x40, 2E, soft, LP	6.4	6.4	3.8	3.8	1.2	22
2E, soft, L	6.4	6.4	3.8	3.8	1.2	38
45x45, 2E, soft, LP	11.4	11.4	5.1	5.1	1.6	30
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	18
40x40, 0E, SP	12.6	12.6	6.3	6.3	2.0	22
45x45, 0E, LP	15.5	15.5	6.9	6.9	2.2	30
30x30, 1F, LP	3.1	3.1	2.1	2.1	0.9	18
1F, SP	4.3	4.0	2.9	2.6	1.2	18
40x40, 1E, LP	10.1	9.8	5.0	4.8	1.5	22
45x45, 1E, LP	14.7	15.5	6.5	6.8	2.1	30
30x30, 2F, cor., SP	3.7	3.2	2.4	2.1	1.1	18
2F, cor., S	3.7	3.2	2.4	2.4	1.1	36
20x20, 2H, cor., SP	1.0	1.0	0.9	0.9	0.68	15
30x30, 2F, cor., LP	3.2	3.2	2.1	2.1	0.9	18
2F, cor., SBP	3.7	3.7	2.4	2.4	1.1	18
2F, cor., L	3.2	3.2	2.1	2.1	0.9	36
2F, cor., SB	3.7	3.7	2.4	2.4	1.1	36
40x40, 2E, cor., LP	9.9	9.9	4.9	4.9	1.5	22
2E, cor., SP	12.0	12.0	6.0	6.0	2.0	22
2E, cor., L	8.0	8.0	4.0	4.0	1.3	38
2E, cor., S	12.3	12.3	6.1	6.1	2.0	38
45x45, 2E, cor., LP	14.7	14.7	6.6	6.6	2.0	30
50x50, 2E, cor., L	16.5	16.5	6.7	6.7	1.7	42
2E, cor., S	27.4	27.4	10.9	10.9	3.0	42
60x60, 2E, cor., SP	57.2	57.2	19.1	19.1	4.3	34
20x20, 2H, LP	1.0	0.8	1.0	0.8	0.58	15
30x30, 2F, LP	3.2	3.2	2.1	2.1	0.9	19
2F, SP	3.6	3.9	2.4	2.6	1.1	19
2F, L	3.2	3.2	2.2	2.2	0.9	36
40x40, 2E, LP	8.2	7.5	4.1	3.8	1.3	23
2E, L	8.2	7.5	4.1	3.8	1.3	38
45x45, 2E, LP	14.0	15.5	6.2	6.9	2.0	31
50x50, 2E, L	17.7	13.6	7.0	5.4	1.6	42







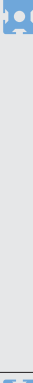



Profile	lx ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	↳
60x60, 2E, LP	35.1	37.7	11.7	12.5	2.9	34
2E, SP	55.9	58.5	18.6	19.5	4.3	34
20x20, 3H, SP	0.9	0.9	0.9	0.9	0.65	15
30x30, 3F, LP	3.0	3.0	2.0	2.0	0.9	19
3F, SP	3.5	3.7	2.4	2.4	1.1	19
3F, L	3.3	3.2	2.2	2.2	0.9	36
3F, S	3.5	3.7	2.4	2.4	1.1	36
40x40, 3E, LP	9.5	9.9	4.7	4.9	1.5	23
3E, SP	12.0	11.4	6.0	5.6	2.0	23
3E, L	8.3	8.8	4.1	4.4	1.4	38
3E, S	12.0	11.3	6.0	5.6	2.0	38
45x45, 3E, LP	14.0	14.7	6.2	6.5	2.1	31
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	16
4H, SP	0.9	0.9	0.9	0.9	0.62	16
30x30, 4F, LP	3.3	3.3	2.2	2.2	0.9	19
4F, SP	3.5	3.5	2.4	2.4	1.1	19
4F, L	3.3	3.3	2.2	2.2	0.9	37
4F, S	3.5	3.5	2.4	2.4	1.1	37
40x40, 4E, LP	9.6	9.6	4.7	4.7	1.5	23
4E, SP	12.0	12.0	6.0	6.0	2.0	23
4E, L	9.9	9.9	4.9	4.9	1.5	39
4E, S	12.0	12.0	6.0	6.0	2.0	39
45x45, 4E, LP	13.5	13.5	6.0	6.0	1.9	31
4E, SP	15.5	15.5	6.9	6.9	2.1	31
4E, L	13.5	13.5	6.0	6.0	1.9	41
4E, S	16.8	16.8	7.4	7.4	2.3	41
50x50, 4E, L	19.2	19.2	7.7	7.7	2.2	43
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	34
4E, SP	56.0	56.0	18.7	18.7	4.2	34
4E, L	35.5	35.5	11.7	11.7	2.7	44
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	31
4E, L	26.5	16.0	9.0	7.2	2.3	42
20x30, 1F, LP	2.2	1.4	1.5	1.4	0.7	17
20x30, 1F, LBP	3.9	1.4	2.6	1.3	1.2	17
20x30, 2F, LP	2.2	1.5	1.5	1.5	0.74	17
2F, SP	2.6	1.9	1.7	1.7	1.0	17
60x90, 6E, L	125.8	54.3	27.9	18.1	3.9	44
6E, S	193.0	83.0	43.0	27.5	6.0	44
30x50, 4F, LP	10.6	4.7	4.6	3.6	1.3	19
4F, SP	16.3	6.4	6.5	4.3	1.9	19
4F, L	10.5	4.5	4.5	3.5	1.3	37
4F, S	16.1	6.3	6.4	4.2	1.9	37







¹⁾ lx, ly = moment of inertia in cm⁴

²⁾ Wx, Wy = moment of resistance in cm³
















³⁾ G = weight in kg/m












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



	Profile	lx ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	↳
	30x60, 0F, SP	29.0	7.8	9.6	5.2	2.2	19
	40x80, 0E, LP	66.8	18.4	16.7	9.2	2.7	23
	45x90, 0E, LP	107.5	30.4	23.9	13.5	3.6	31
	0E, SP	134.3	36.3	29.8	16.2	4.7	31
	40x80, 3E, cor., LP	66.9	18.1	16.7	9.0	2.6	23
	20x40, 4H, SP	7.0	2.0	3.5	2.0	1.3	16
	40x80, 4E, LP	65.8	18.1	16.5	9.0	2.6	24
	4E, L	63.2	17.8	15.7	8.9	2.6	39
	40x80, 4E, LBP	74.5	18.3	18.6	9.2	2.8	24
	40x80, 5E, LP	72.2	18.1	18.0	9.0	2.8	24
	20x40, 6H, LP	5.3	1.4	2.6	1.4	0.9	16
	6H, SP	6.4	1.7	3.2	1.7	1.3	16
	30x60, 6F, LP	22.1	5.9	7.4	3.9	1.6	19
	6F, SP	25.0	7.0	8.3	4.7	2.1	19
	6F, L	21.9	5.8	7.4	3.8	1.6	37
	6F, S	25.0	7.0	8.3	4.7	2.1	37
	40x80, 6E, LP	65.4	17.5	16.4	8.8	2.5	24
	6E, SP	82.0	23.4	20.5	11.7	3.8	24
	6E, L	62.7	17.0	15.6	8.5	2.6	39
	6E, S	82.0	23.4	20.5	11.7	3.8	39
	45x90, 6E, LP	98.0	27.5	21.8	12.2	3.3	32
	6E, SP	126.0	34.0	28.0	15.0	4.4	32
	6E, L	98.0	27.5	21.8	12.2	3.3	41
	6E, S	126.0	34.0	28.0	15.0	4.4	41
	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, LP	200.4	25.4	33.4	12.7	3.8	25
	8E, L	198.5	25.2	34.2	12.6	3.6	39
	50x150, 8E, S	628.0	83.0	83.0	33.0	8.1	43
	30x100, 3F, SP	120.4	12.8	24.0	8.5	3.6	20

	Profile	lx ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	↳
	30x100, 8F, SP	115.0	11.6	22.9	7.7	3.4	20
	30x100, 10F, SP	127.0	11.9	25.4	7.9	3.6	20
	40x160, 6E, LP	450.4	36.3	56.3	18.1	5.0	25
	40x160, 10E, LP	433.5	33.1	54.2	16.5	4.7	25
	30x150, 8F, SP	340.0	16.0	45.0	11.0	4.1	21
	30x150, 8E, SP	481.0	25.1	64.1	16.7	7.9	21

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


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

	Profile	lx ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	↳
	80×80, 0E, LP	135.0	135.0	33.5	33.5	4.7	26
	80×80, 4E, cor., LP	128.0	128.0	32.0	32.0	4.5	26
	80×80, 6E, LP	121.3	116.0	30.3	29.0	4.2	26
	80×80, 7E, SP	162.8	149.7	40.7	37.5	6.2	26
	60×60, 8F, L	38.7	38.7	12.9	12.9	2.6	37
	80×80, 8E, LP	114.0	114.0	28.4	28.4	4.1	26
	8E, SP	166.0	166.0	41.4	41.4	5.9	26
	8E, L	111.0	111.0	28.0	28.0	4.1	40
	8E, S	166.0	166.0	41.4	41.4	5.9	40
	90×90, 8E, LP	190.5	190.5	42.3	42.3	5.6	32
	100×100, 8E, S	411.0	411.0	82.0	82.0	9.7	43
	80×80, 8E, LBP	118.7	118.7	29.9	29.9	4.9	27
	8E, LB	110.2	110.2	27.6	27.6	4.5	40
	90×90, 8E, SP	282.0	282.0	63.0	63.0	9.5	32
	100×100, 8E, L	254.1	254.1	45.4	45.4	6.2	43
	60×60, 8F, angle, S	35.2	35.2	9.9	9.9	2.8	37
	80×80, 8E, angle, SP	120.0	120.0	23.8	23.8	5.4	27
	8E, angle, S	120.0	120.0	23.8	23.8	5.4	40
	80×120, 10E, SP	449.9	217.8	72.6	54.4	8.6	27
	80×160, 8E, SP	944.0	183.0	118.0	45.8	7.9	27
	80×160, 8E, LP	828.0	259.0	104.0	65.0	8.6	27
	80×160, 12E, LP	787.6	231.9	98.3	58.2	8.2	27
	12E, SP	883.0	269.0	110.0	67.3	9.4	27
	12E, L	794.0	233.0	99.3	58.3	8.8	40
	12E, S	880.0	268.0	110.0	67.0	9.4	40
	100×200, 12E, SP	2,450.0	760.0	250.0	152.0	17.2	33

	Profile	lx ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	↳
	120×120, 3E, LP	538.3	275.2	89.8	45.8	6.7	54
	120×120, 12E, SP	624.0	624.0	104.0	104.0	10.6	27

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

1

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

Profile	ix ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	↔
40x40, 2E, 45°, LP	7.3	7.3	3.9	3.9	1.4	29
80x80, 7E, 45°, LP	99.3	99.3	24.8	24.8	4.0	29
40, round 30°, 2F, LP	6.0	4.8	3.0	2.4	1.2	28
40, round 45°, 2E, LP	14.5	8.0	4.9	3.7	1.6	28
40, round 60°, 2E, LP	30.0	10.5	7.6	4.6	1.9	28

Profile	ix ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	↔
40, round 90°, 2E, LP	89.0	89.0	16.0	16.0	3.0	28
48, round, 1E, SP	12.5	12.9	4.9	5.4	1.8	45
48, round, 2E, cor., SP	12.0	12.0	5.0	5.0	2.0	45
48, round, 2E, SP	12.5	13.5	5.1	5.9	2.0	45
30, octag., 8F, SP	84.0	84.0	21.0	21.0	3.9	45
40, octag., 8E, SP	176.6	176.6	35.3	35.3	5.8	45

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⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	↔
30x30, 0F, P, LP	3.8	3.8	2.4	2.4	1.10	46
30x30, 2F, P, LP 5	4.3	3.3	2.8	2.2	1.20	46
30x30, 2F, P, LP 6	3.6	2.8	2.4	1.9	1.00	46
30x30, 2F, WG, LP 7.5	2.6	3.2	1.7	2.1	0.86	49
40x40, 2E, WG, LP 7.5	7.5	8.2	3.8	4.1	1.35	49
30x30, 2F, c., P, LP 4	3.3	3.3	2.2	2.2	1.00	46
40x40, 2E, c., P, LP 4	10.3	10.3	5.2	5.2	1.80	47
50x50, 2E, c., P, LP 4	19.4	19.4	7.6	7.6	2.40	48
30x30, 3F, P, LP 4	3.3	2.8	2.2	1.8	0.90	46
40x40, 3E, P, LP 4	10.2	8.7	5.1	4.3	1.65	47
50x50, 3E, P, LP 4	24.1	21.4	8.0	8.5	2.70	48
40x40, 2E, 45°, SP	12.1	12.1	6.1	6.1	2.10	46

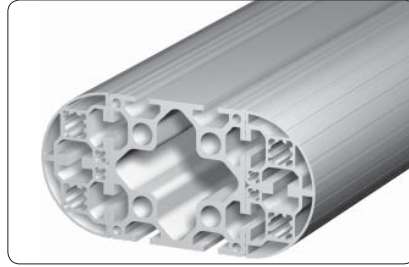
Profile	ix ¹⁾	ly ¹⁾	Wx ²⁾	Wy ²⁾	G ³⁾	↔
30x45, 2F, WG, LP 7.5	4.3	7.4	2.9	3.3	1.15	49
40x60, 2E, 1F, WG, LP 7.5	12.2	22.5	6.1	7.5	1.97	49
30x50, 2F, P, LP 5	7.0	14.7	4.7	5.9	1.90	46
30x50, 3F, P, LP 4	5.5	11.8	3.6	4.8	1.5	46
40x60, 3E, P, LP 4	14.8	26.3	7.4	8.8	2.4	47
30x60, 3F, 45°, LP	22.8	6.1	7.6	4.0	1.7	46
60x80, 5E, P, LP 4	100.4	50.4	25.1	16.8	3.8	47
60x80, 6E, P, LP 4	88.1	52.0	22.1	17.3	3.7	47

¹⁾ Ix, Iy = moment of inertia in cm⁴

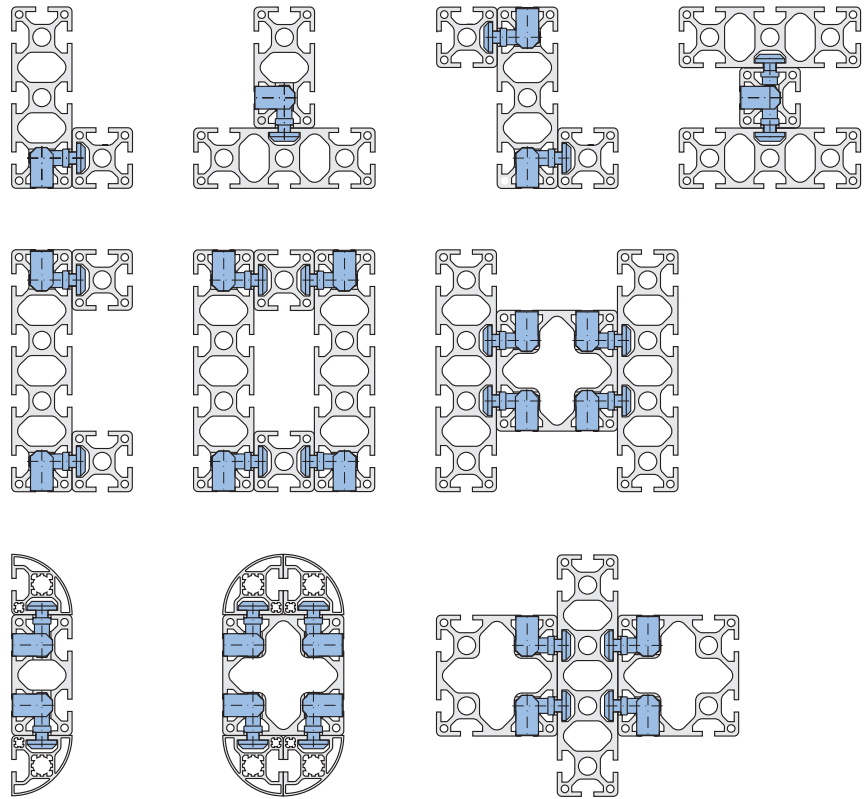
²⁾ Wx, Wy = moment of resistance in cm³

³⁾ G = weight in kg/m

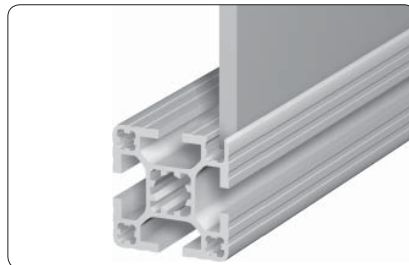
Profile combinations



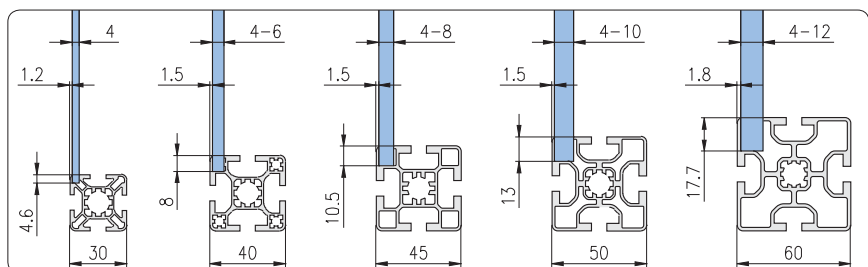
With the MayTec Connector System it is possible to make a multitude of form-matching and stable profile combinations.



Special slits

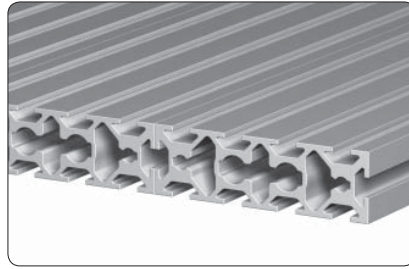


Panel elements can be set in the profile flush to the outer edge for form-matching design. The slits needed for that can be made in nearly all profiles.

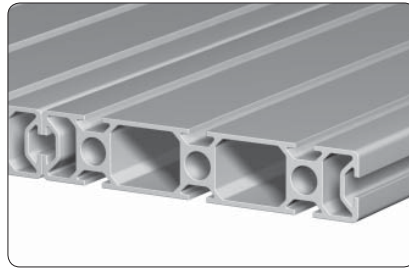


Slot plates

F-slot

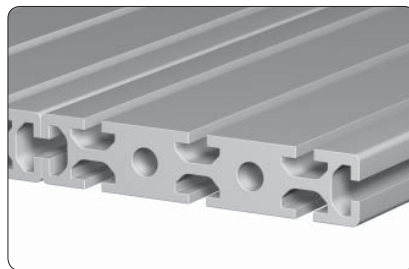


F-slot, slot distance 25 mm



F-slot, slot distance 50 mm

E-slot



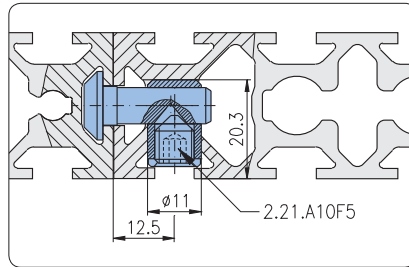
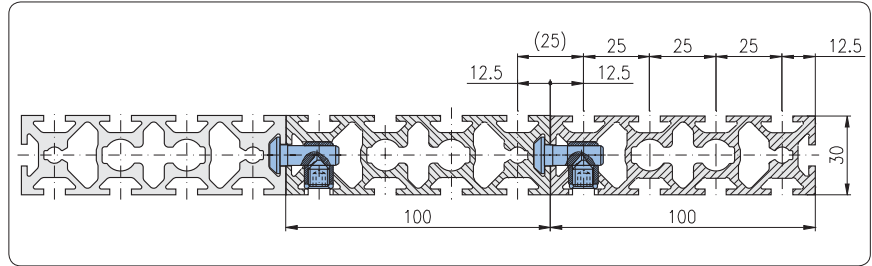
E-slot, slot distance 50 mm

Application

Profiles to construct slot plates of any required size



Slot plates F-slot
Slot distance 25 mm

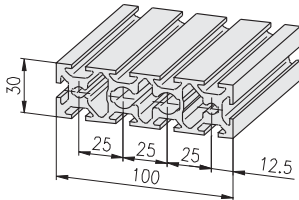


Drill dimensions

Single parts

- anchor 2.21.A10F5
- cross bushing 2.21.B10

Profile 30×100, 10F, SP



Description

Profile 30×100, 10F, SP

Weight

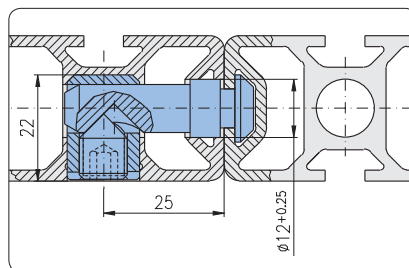
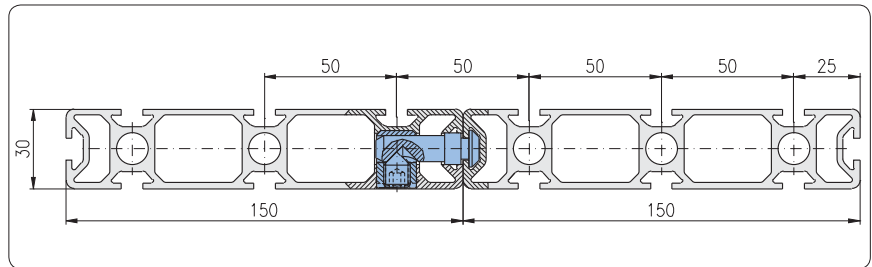
bar 6 m

3.6 kg/m

Article-No.

1.11.030100.104SP.60

Slot plates F-slot
Slot distance 50 mm

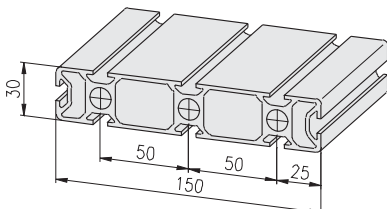


Drill dimensions

Single parts

- anchor 1.21.A5F5
- cross bushing 1.21.B30

Profile 30×150, 8F, SP



Description

Profile 30×150, 8F, SP

Weight

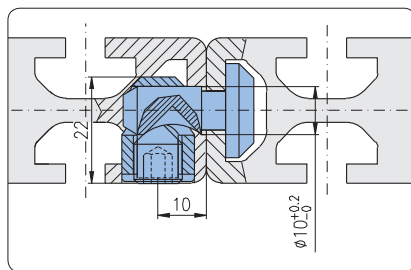
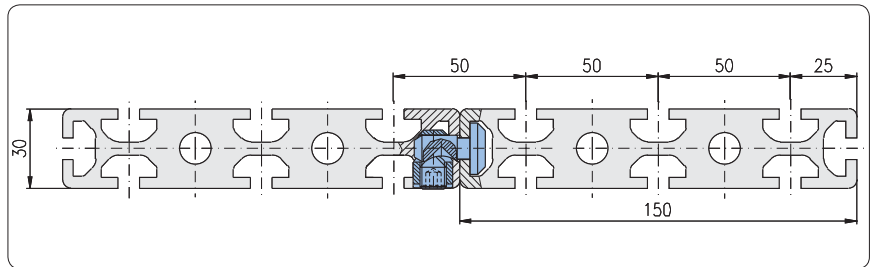
bar 6 m

4.1 kg/m

Article-No.

1.11.030150.85SP.60

Slot plates E-slot
Slot distance 50 mm

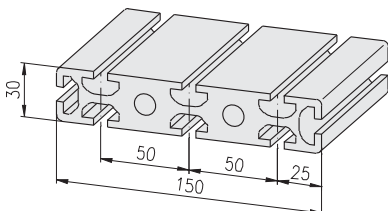


Drill dimensions

Single parts

- anchor 1.21.A2E5
- cross bushing 1.21.B34

Profile 30×150, 8E, SP



Description

Profile 30×150, 8E, SP

Weight

bar 6 m 7.9 kg/m

Article-No.

1.11.030150.84SP.60

machining data Profile machining 1.1A

Hand rail



Post: Profile 40×40

Application

Hand rail for balustrades on stairs and platforms

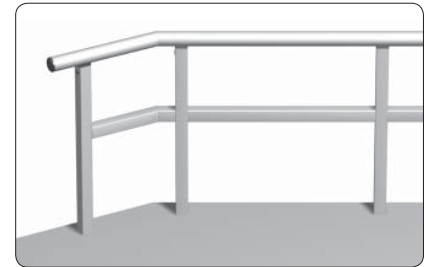
Comments

Angled joints: 0 deg. to 90 deg.

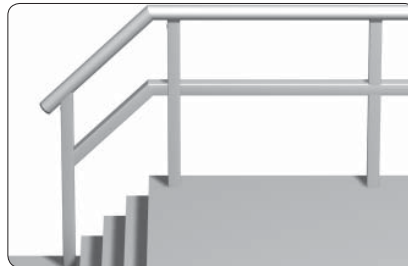
Incline: 0 deg. to 45 deg.



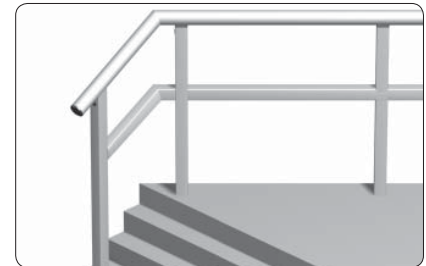
Hand rail straight



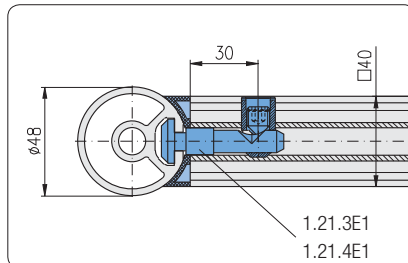
Hand rail angled



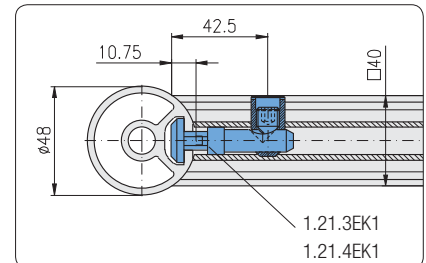
Hand rail tilted



Hand rail tilted and angled

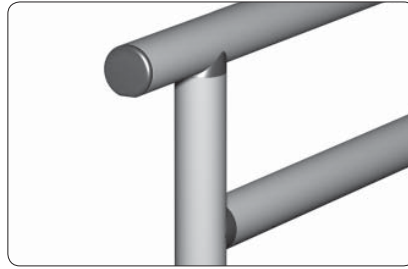


Working dimensions for hand rail straight with radius compensation



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

Hand rail



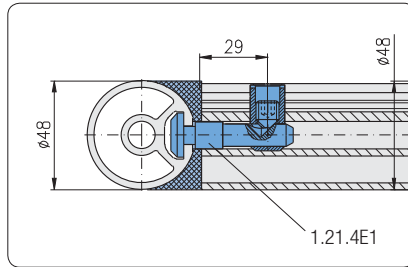
Post: Profile Ø48

Application

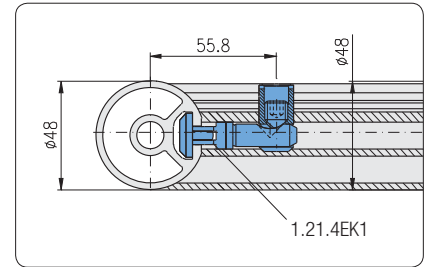
Hand rail for balustrades on stairs and platforms

Comments

Angled joints: 0 deg. to 90 deg.
Incline: 0 deg. to 45 deg.



Working dimensions for hand rail straight with radius compensation



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

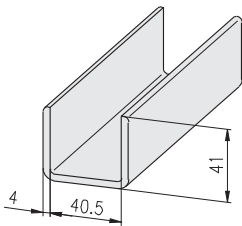
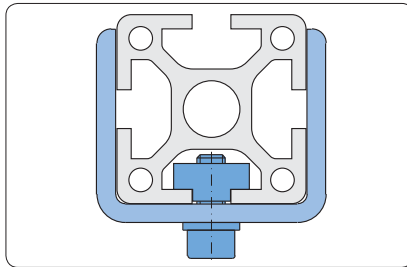


U-Profile 40



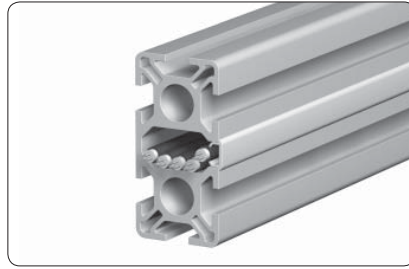
Application

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



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

Profiles for cable guide



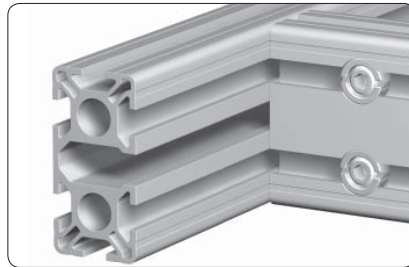
Application

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

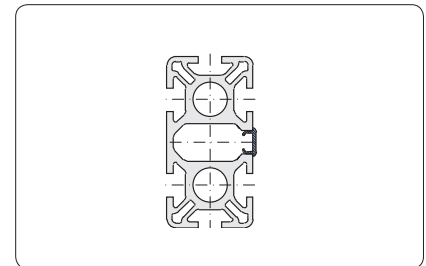
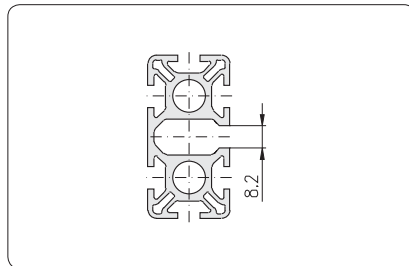
Cover is carried out by cover profiles:

Cover profile PVC 1.41.11□

Cover profile ALU 1.41.121



Application of cross braces to stabilize slotted profiles



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

Comments

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

Order details

Description

Article-No.

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

Order example

Order request

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

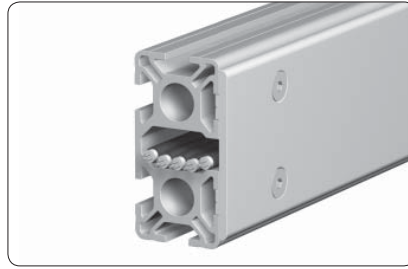
Order

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

1.11.040080.64S-F00F00/4500
SBZ1

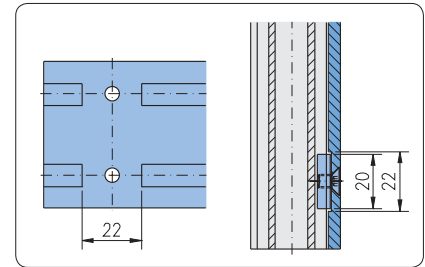
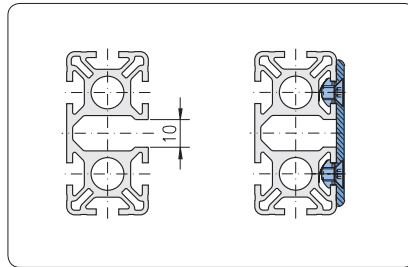


Profiles for cable guide
Slot distance 30



Application

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



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

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

Order details

Description

Article-No.

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

Order example

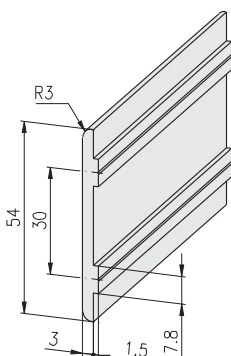
Order request

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

Order

Profile 30x60, 6F S,	1.11.030060.65S-A00A00/4500
slotted 10 mm, special machining as per drawing	SBZ2

Profile pre-cut lid 30



Single parts

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

Description

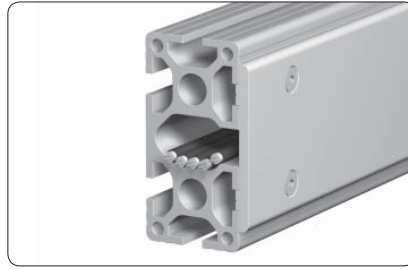
Weight

Article-No.

Profile pre-cut lid 30	0.49 kg/m	1.19.110130
------------------------	-----------	-------------

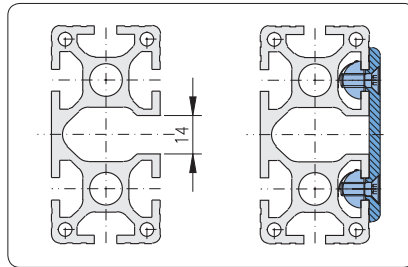
machining data Profile machining 1.1A

Profiles for cable guide
Slot distance 40



Application

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



Profiles for cable guide, slot distance 40										
Profile	light, plain					heavy, plain	light		heavy	
40x80	0E LP	3E c.LP	4E LP	4E LBP	5E LP	6E LP	6E SP	4E L	6E L	6E S
80x80	0E LP	4E c.LP	6E LP	8E LP	8E LBP	7E SP	8E L	8E LB	8E S	
	7E 45° LP					8E SP	8E ang. SP			8E angle S
	40x160	80x160	80x120	80x160	120x120	40x120	80x160	80x160	80x160	
	6E LP	10E LP	8E LP	12E LP	10E SP	12E SP	12E SP	8E L	12E L	12E S

Order details

Description

Article-No.

Profile □□□□□□,	1.11.□□□□□□.□□
slotted 14 mm, special machining as per drawing	SBZ3

Order example

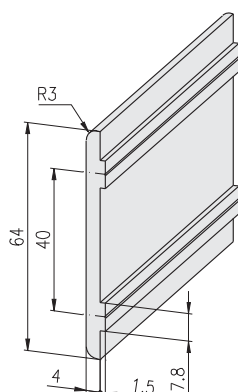
Order request

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

Order

Profile 80x80, 8E S,	1.11.080080.83S-L00L00/4500
slotted 14 mm, special machining as per drawing	SBZ3

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

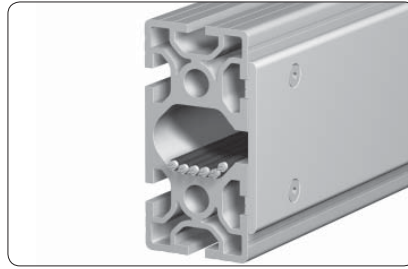
Weight

Article-No.

Profile pre-cut lid 40	0.74 kg/m	1.19.110140
------------------------	-----------	-------------

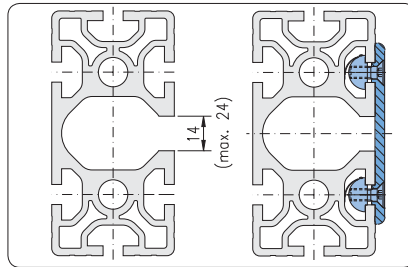
machining data Profile machining 1.1A

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
3F SP	8F SP	8F SP	12E SP	6E L	8E L	6E S	8E S	8E S			

Order details

Description

Bestell-Nr.

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

Order example

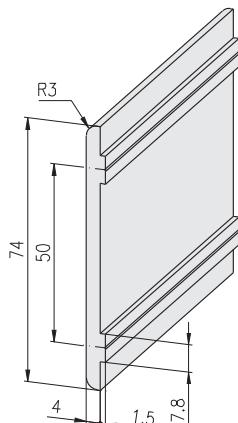
Order request

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

Order

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

Profile pre-cut lid 50



Single parts

F-slot

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

E-slot

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

Description

Weight

Article-No.

Profile pre-cut lid 50	0.85 kg/m	1.19.110150
------------------------	-----------	-------------

machining data Profile machining 1.1A

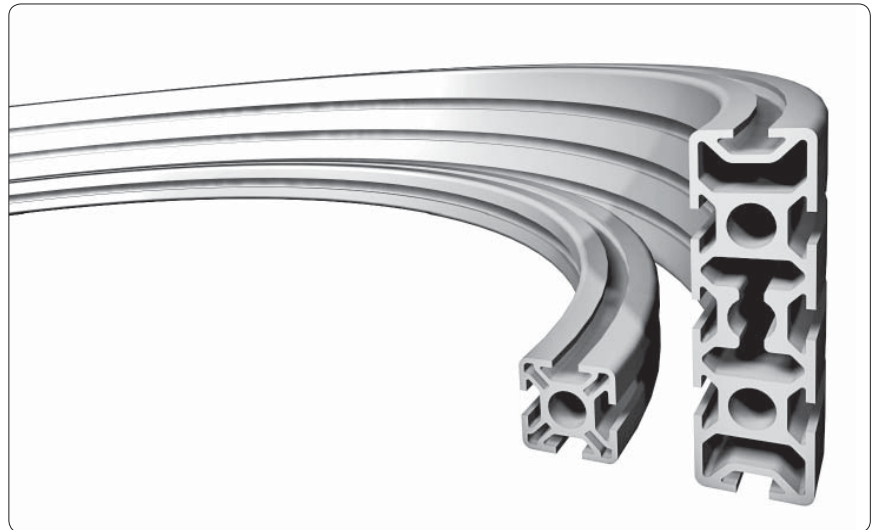
Curved profiles

For curved profiles the following data is required:

- Profile type (current conditions see table below)
- Position of profile ↗ 59
- Radius
- Direction ↗ 61
- Necessary accuracy of dimensions for curved profiles and for all required functionality



Position of profile

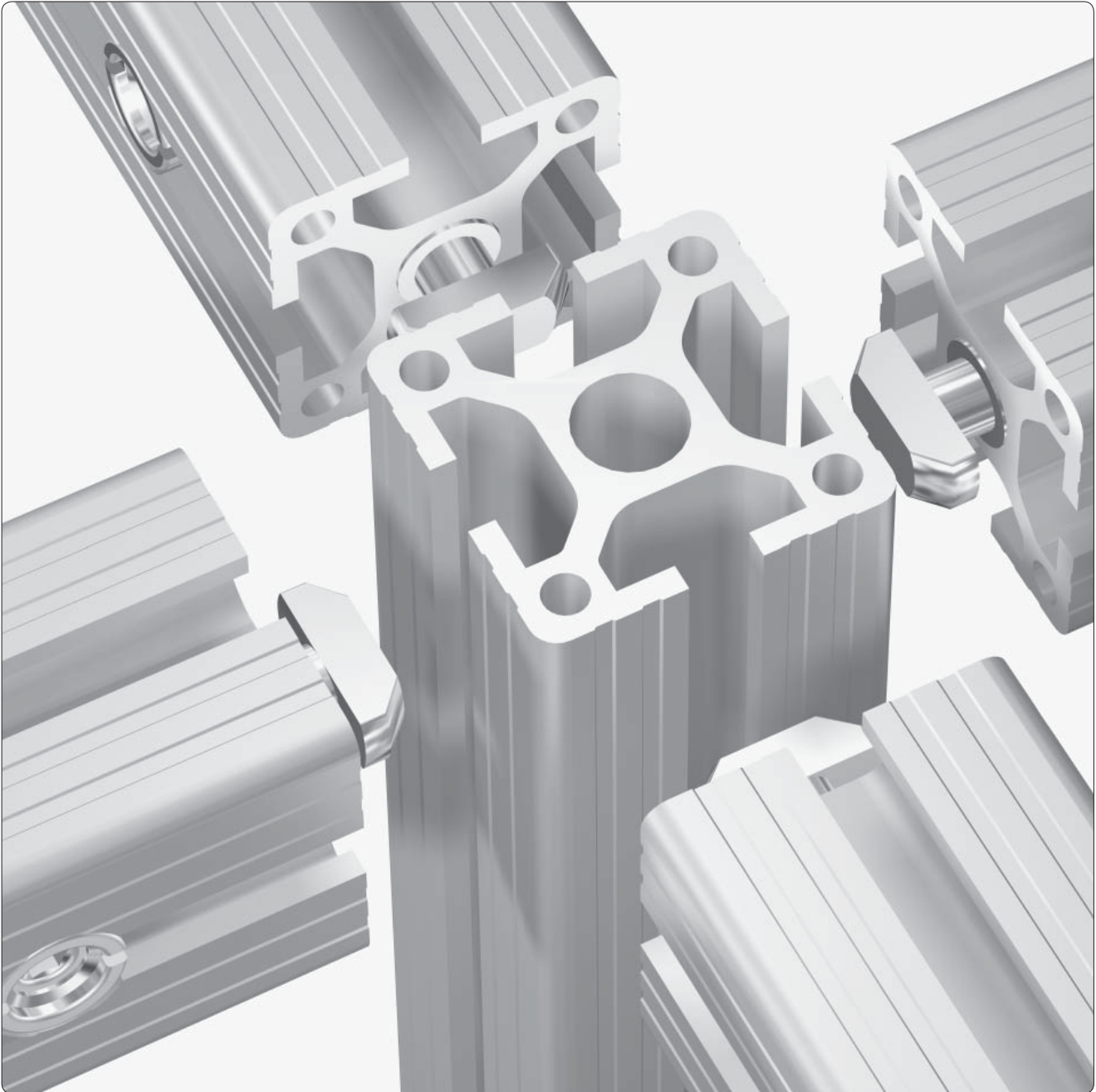


Function 'T- Nut'													Function 'threaded plate'													Function 'connector'																	
position of slot(s)													position of slot(s)													position of slot(s)						position of core hole(s)											
A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L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

The marking of the slots and core holes takes place in accordance with the marking for 'the profile machining' ↗ 1.1A

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

Article-No.	PG	Profile	min. inside-Ø
1.11.030050.44SP	30	30×50, 4F, SP	700
1.11.030060.04SP		30×60, 0F, SP	700
1.11.030060.64L		30×60, 6F, L	700
1.11.030060.64LP		30×60, 6F, LP	700
1.11.030060.65S		30×60, 6F, S	700
1.11.030060.65SP		30×60, 6F, SP	700
1.11.030100.34SP		30×100, 3F, SP	700
1.11.030100.84SP		30×100, 8F, SP	700
1.11.030100.104SP		30×100, 10F, SP	700
1.11.040040.03SP	40	40×40, 0E, LP	700
1.11.040040.13LP		40×40, 1E, LP	700
1.11.040040.22L		40×40, 2E, cor., L	700
1.11.040040.22LP		40×40, 2E, cor., LP	700
1.11.040040.22S		40×40, 2E, cor., S	700
1.11.040040.22SP		40×40, 2E, cor., SP	700
1.11.040040.23L		40×40, 2E, L	700
1.11.040040.23LP		40×40, 2E, LP	700
1.11.040040.33L		40×40, 3E, L	700
1.11.040040.33LP		40×40, 3E, LP	700
1.11.040040.33S		40×40, 3E, S	700
1.11.040040.33SP		40×40, 3E, SP	700
1.11.040040.43L		40×40, 4E, L	700
1.11.040040.43LP		40×40, 4E, LP	700
1.11.040040.43S		40×40, 4E, S	700
1.11.040040.43SP		40×40, 4E, SP	700
1.11.040080.04LP		40×80, 0E, LP	700
1.11.040080.44L		40×80, 4E, L	700
1.11.040080.64L		40×80, 6E, L	700
1.11.040080.64S		40×80, 6E, S	700
1.11.040080.32LP		40×80, 3E, cor., LP	700
1.11.040080.44LP		40×80, 4E, LP	700
1.11.040080.44LBP		40×80, 4E, LBP	700
1.11.040080.54LP		40×80, 5E, LP	700
1.11.040080.64LP		40×80, 6E, LP	700
1.11.040080.64SP		40×80, 6E, SP	700
1.11.048R00.10SP		48, round, 1E, SP	1.500
1.11.048R00.20SP		48, round, 2E, SP	1.500
1.11.048R00.22SP		48, round, 2E, cor., SP	1.500



extremely strong

efficient

functional

The proven connection system!

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

It carries same stability out after all four sides.

The connection allows:

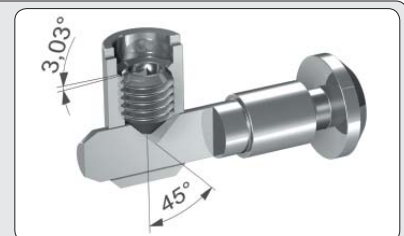
- easy machining
- quick assembly
- innumerable (dis)assemblies


The connection system is:

- complete
- stable
- functional

Vibration proof

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





Stability S-Class

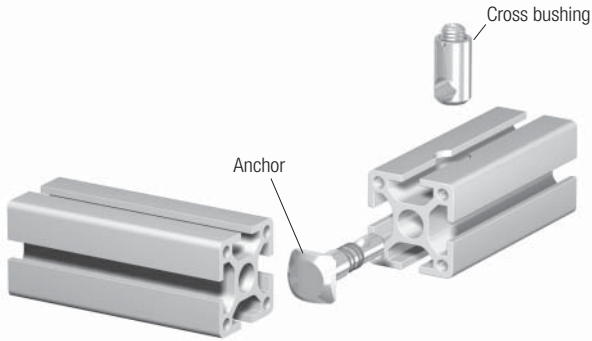
**MayTec
Universal-Connector**

18,000 N
working load

**Vibration
proof**

MayTec connector with square head

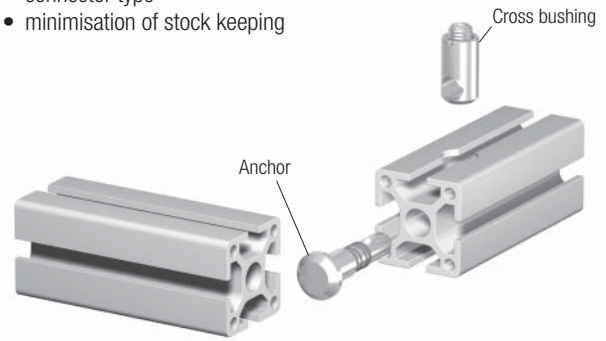
The MayTec connector with square head offers the highest load bearing capacity.



MayTec universal-connector

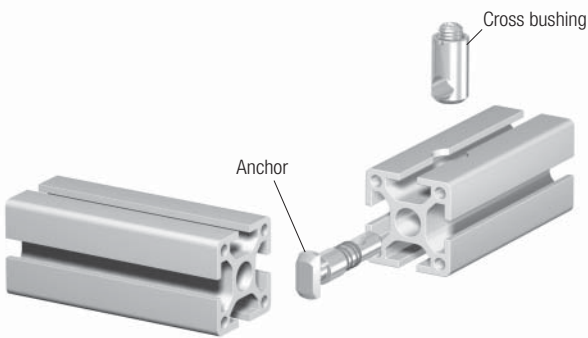
The MayTec universal-connector allows:

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



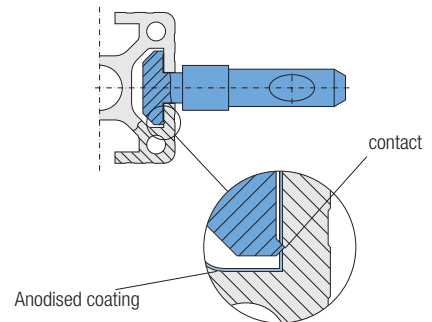
MayTec standard-connector

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



MayTec ground-connector for potential equalisation

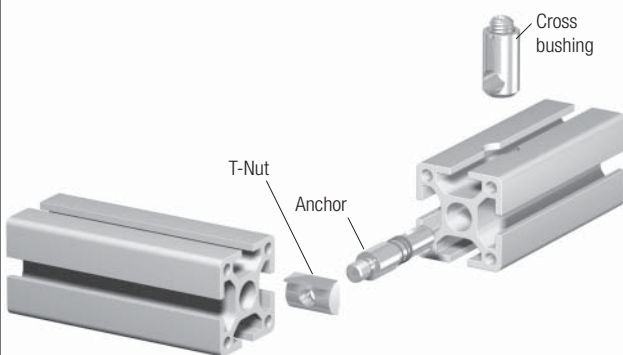
The MayTec ground-connector allows potential equalisation between two profiles. When the connector is tightened, the serration at the rear of the anchor head penetrates the anodised profile coating and thus provides an electrical contact.



Deliverable types ↗ Connectors 1.2A
Ground connections ↗ 1.70

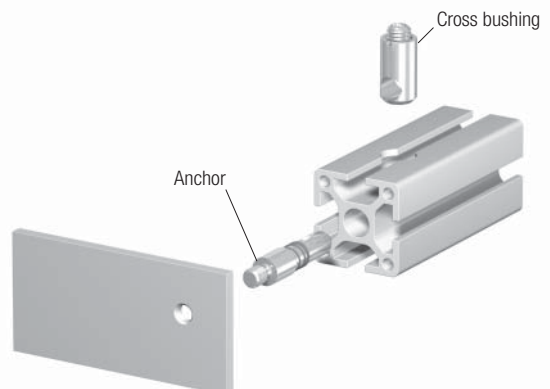
MayTec screw-type connector

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



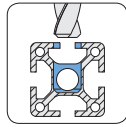
MayTec screw-type connector

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

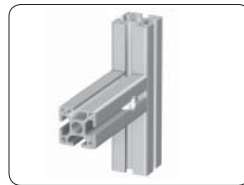
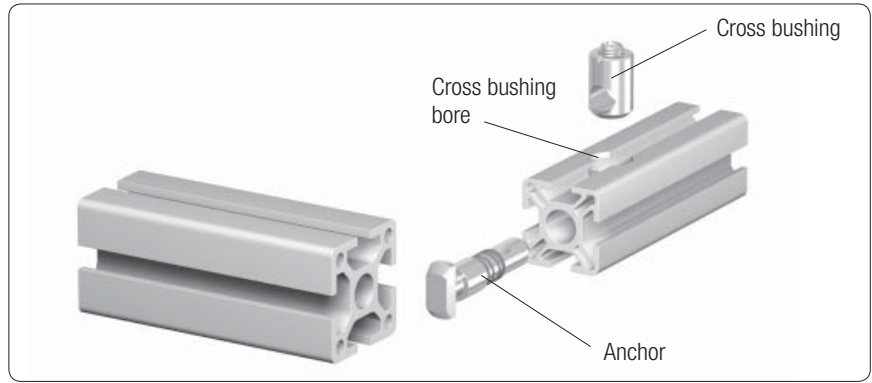


The MayTec Connector System

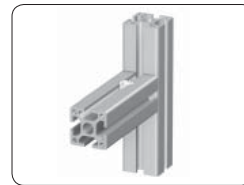
- mounting of connector in core hole
- with machining



Cross
bushing bore



Standard ↗ 96



Screw-type ↗ 95, 100



Parallel ↗ 94, 98



Oblique ↗ 94, 96



Oblique-cross ↗ 97



Extension / Parallel ↗ 111



Miter ↗ 94, 99

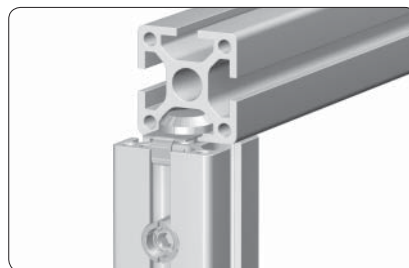


Shifter ↗ 99



Extension ↗ 94, 98

Anti-twist devices



with retaining plate ↗ 133



with T-Nut ↗ 145-148

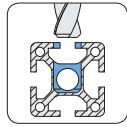
Clamping lever for connectors



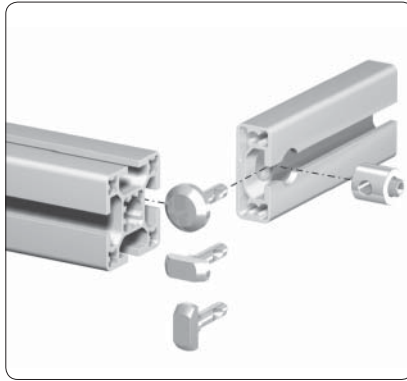
Clamping lever ↗ 136

The MayTec Connector System

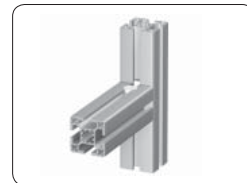
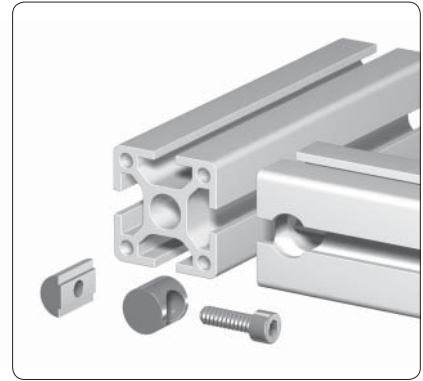
- mounting of connector in slot
- with machining



Cross bushing bore



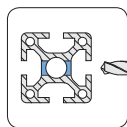
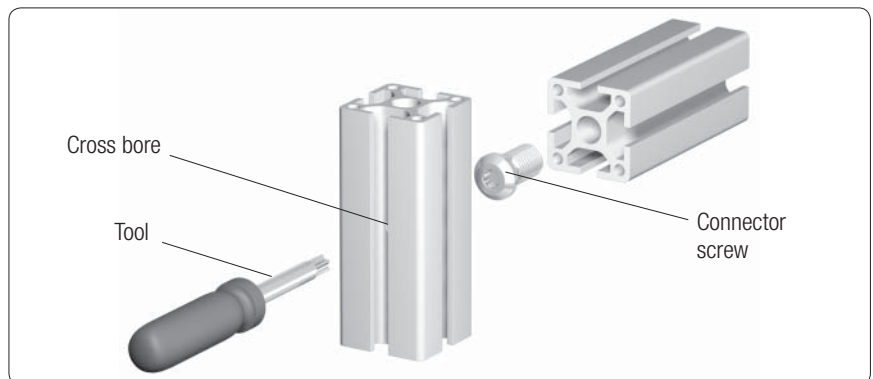
SE-Connector ↗ 113



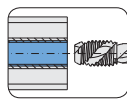
ST-Connector ↗ 114-115

Screw-type connections

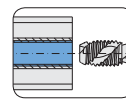
- with machining



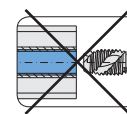
Cross bore



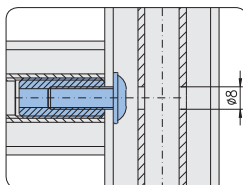
Thread



Thread

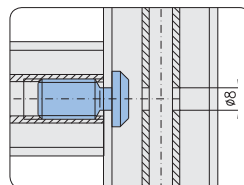


Thread



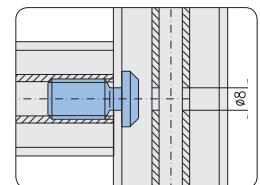
Threaded insert with lens head screw

↗ 1.35



Connector screw

↗ 101

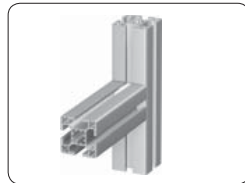
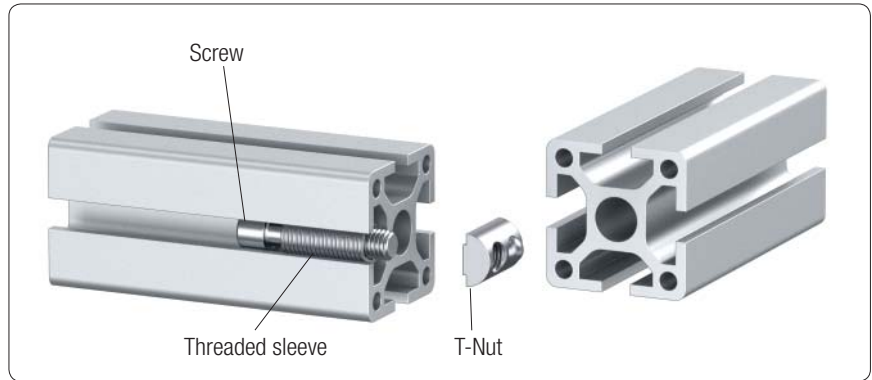


Connector screw, self-cutting

↗ 101, 116

Insertion connections

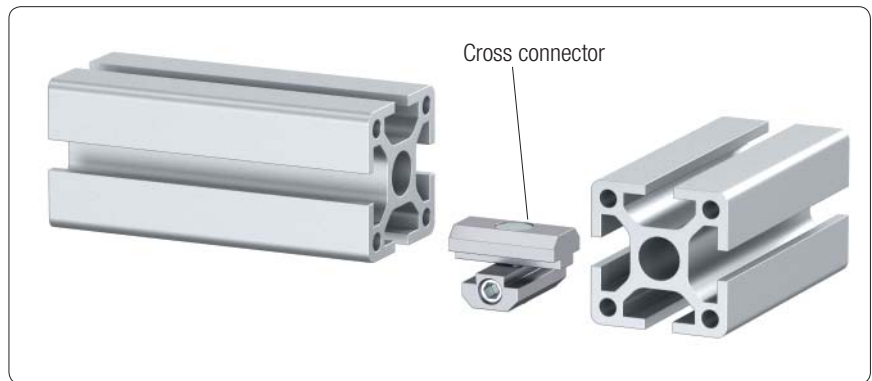
- without machining



Insertion connector ↗ 119-121

Cross connections

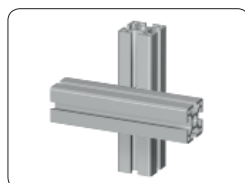
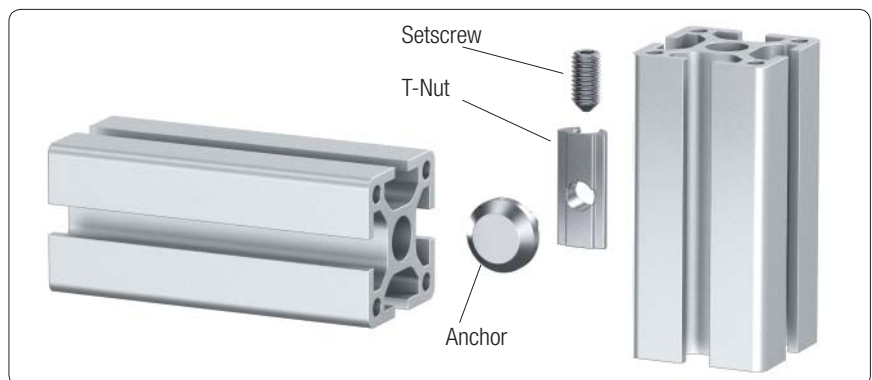
- without machining



Cross connector ↗ 117

Parallel connections

- without machining

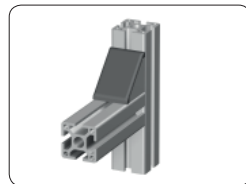


Parallel connector ↗ 118

Angle connections
• without machining



Angle PA ↗ 1.46



Angle GD-Zn, GD-Al
↗ 1.46

Manufacture a connection



Example

Connection of two profiles 40×40 with one standard connector

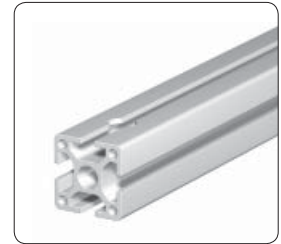
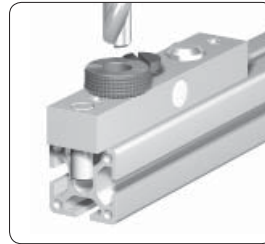
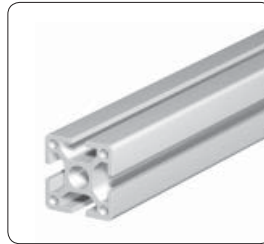
1. Connector selection

➤ 1.2, Connector selection

2. Profile machining

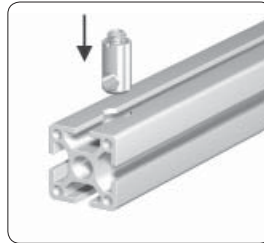
➤ 1.1A, Profile machining

➤ 1.99, Tools

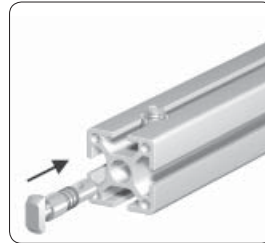


Manufacture the cross bushing bore with the aid of a drill jig

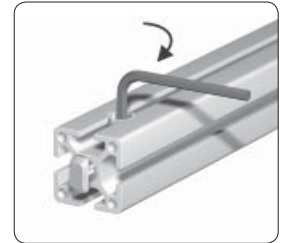
3. Pre-assembly of the connector



Insert the cross bushing

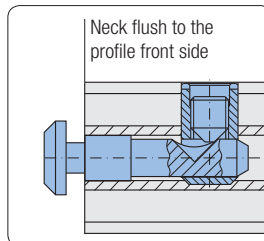


Push in the anchor



Pretension the anchor

⚠ Mounting position



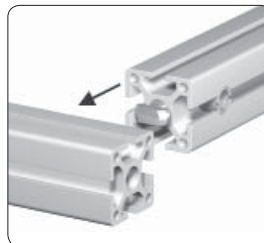
Comments

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

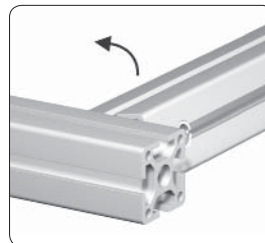
4. Final assembly

➤ 1.2F, Torque tightening values for connector setscrew

①



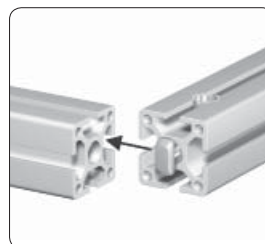
Push in sideways



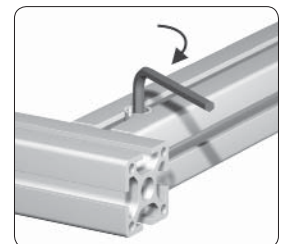
Turn the profile

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: ≥ 650 N/mm ² surface: galvanised
Standard, ground	1.21.2E0 E	
Standard VA	1.21.2E0 V	material: stainless steel 1.4305 strength: 490-685 N/mm ² surface: pickled and passivated

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

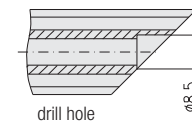
MayTec®		Connectors for profiles with core hole-Ø 12 mm			1.2A						
Connection / Connector	Finished dimension	PG	Article-No. for connector with								
			H-head		F-head		E-head				
			steel standard	E	VA	steel standard	E	VA	steel standard	E	VA
Universal 		20	1.21.2H0			1.21.2F0	E	V	1.21.2E0	E	V
		30	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				

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 													

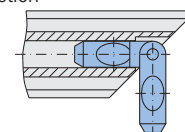
Connection / Connector	Finished dimension	PG	Article-No. for connector		
			steel standard	E	VA
Miter -hinge l + r 		20	1.20.2G1		
Miter 90° -hinge l + r 		20	1.20.2G2		
Extension 		20	1.20.2V0		V

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

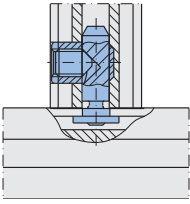
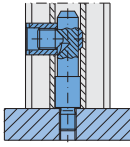
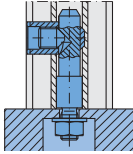


The center portion of the anchor part is to be located in the counterbored profile section


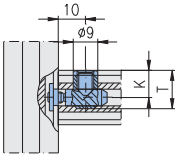
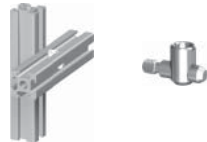
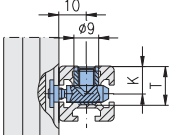
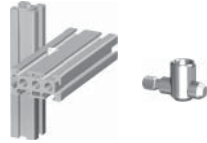
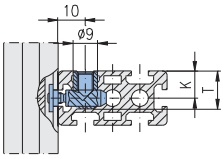
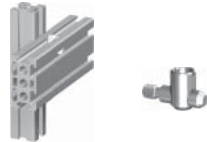
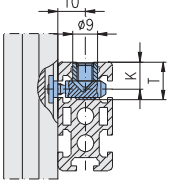



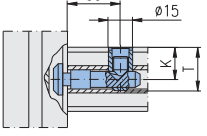

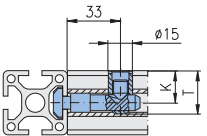

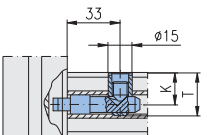

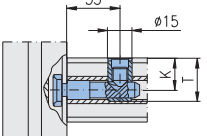

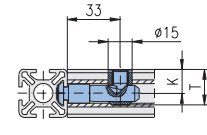

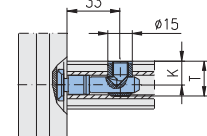

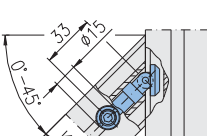

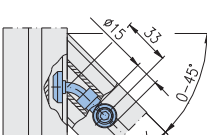
Comments


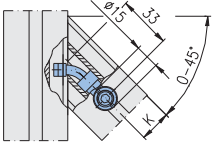

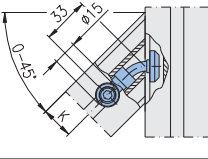
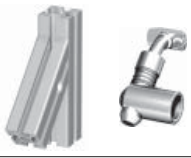
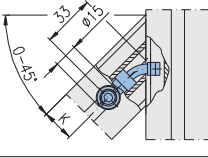

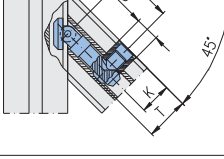

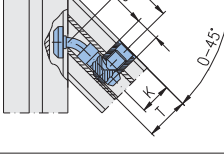

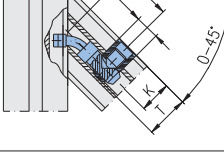

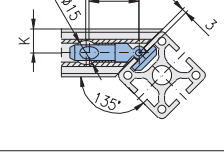

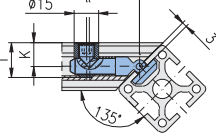
Use drill for miter anchor Article-No.: 1.99.0310800 ↗ tools 1.99

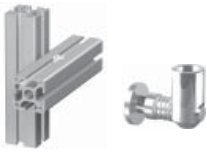
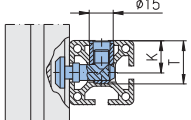
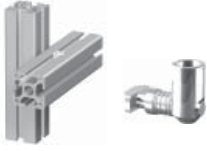
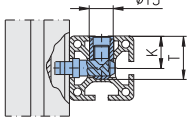
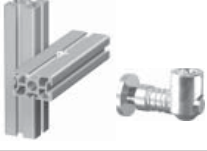
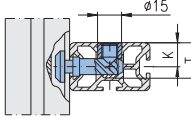
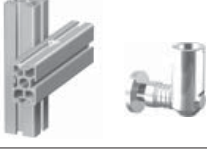
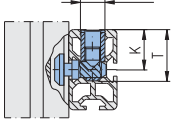
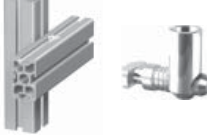
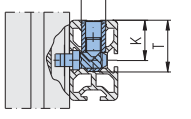
Connection variants with screw-type connectors		
		
Profile with profile	Profile to plate with thread	Profile to plate with through-hole

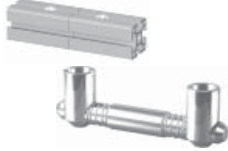
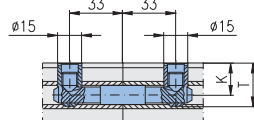

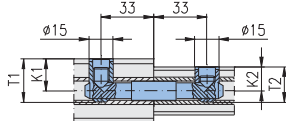
Mounting instruction for screw-type connectors
<ol style="list-style-type: none"> 1. Screw anchor in until it stops against the shoulder 2. Unscrew anchor until it lines-up with the cross bushing position (max. one turn) 3. Set up profile with cross bushing

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 					

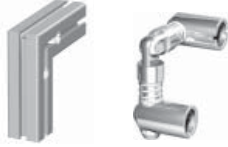
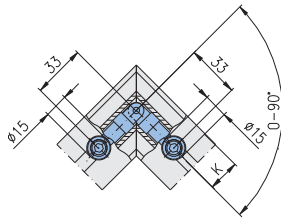
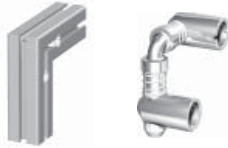
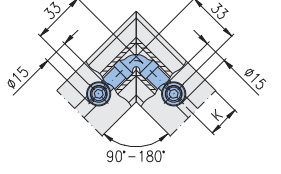
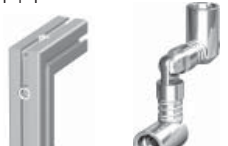
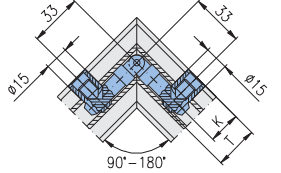

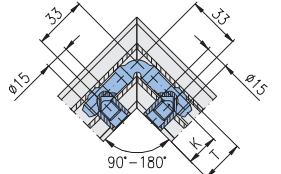

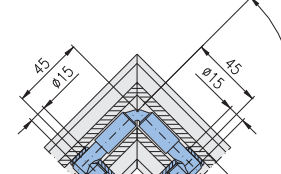

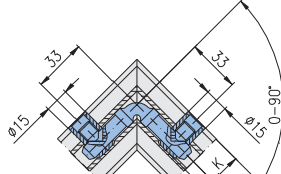

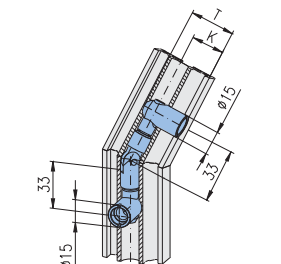
Connection / Connector	Finished dimension	PG	Article-No. for connector with								
			H-head		F-head				E-head		
			steel standard	E	VA	steel standard	E	VA	steel standard	E	VA
Universal 		20	1.21.2H0			1.21.2F0	E	V	1.21.2E0	E	V
		30	1.21.3H0			1.21.3F0	E	V	1.21.3E0	E	V
		40	1.21.40H0			1.21.4F0	E	V	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	VA	steel standard	E	VA	
Oblique -bent anchor standard l 		20					1.21.2F1B1L/□□			1.21.2E1B1L/□□	
		30					1.21.3F1B1L/□□			1.21.3E1B1L/□□	
		40					1.21.4F1B1L/□□			1.21.4E1B1L/□□	
		45					1.21.45F1B1L/□□			1.21.45E1B1L/□□	
		50					1.21.5F1B1L/□□			1.21.5E1B1L/□□	
		60					1.21.6F1B1L/□□			1.21.6E1B1L/□□	
-bent anchor r 		20						1.21.2FB1R/□□	E	1.21.2EB1R/□□	E
		30						1.21.3FB1R/□□	E	1.21.3EB1R/□□	E
		40						1.21.4FB1R/□□	E	1.21.4EB1R/□□	E
		45						1.21.45FB1R/□□	E	1.21.45EB1R/□□	E
		50						1.21.5FB1R/□□	E	1.21.5EB1R/□□	E
		60						1.21.6FB1R/□□	E	1.21.6EB1R/□□	E
-bent anchor standard r 		20						1.21.2F1B1R/□□		1.21.2E1B1R/□□	
		30						1.21.3F1B1R/□□		1.21.3E1B1R/□□	
		40						1.21.4F1B1R/□□		1.21.4E1B1R/□□	
		45						1.21.45F1B1R/□□		1.21.45E1B1R/□□	
		50						1.21.5F1B1R/□□		1.21.5E1B1R/□□	
		60						1.21.6F1B1R/□□		1.21.6E1B1R/□□	
Oblique 90° -hinge 		20						1.21.2FK2	V	1.21.2EK2	V
		30						1.21.3FK2	V	1.21.3EK2	V
		40						1.21.4FK2	V	1.21.4EK2	V
		45						1.21.45FK2	V	1.21.45EK2	V
		50						1.21.5FK2	V	1.21.5EK2	V
		60						1.21.6FK2	V	1.21.6EK2	V
-bent anchor 		20						1.21.2FB2/□□	E	1.21.2EB2/□□	E
		30						1.21.3FB2/□□	E	1.21.3EB2/□□	E
		40						1.21.4FB2/□□	E	1.21.4EB2/□□	E
		45						1.21.45FB2/□□	E	1.21.45EB2/□□	E
		50						1.21.5FB2/□□	E	1.21.5EB2/□□	E
		60						1.21.6FB2/□□	E	1.21.6EB2/□□	E
-bent anchor 90° 		20						1.21.2F2B2/□□		1.21.2E2B2/□□	
		30						1.21.3F2B2/□□		1.21.3E2B2/□□	
		40						1.21.4F2B2/□□		1.21.4E2B2/□□	
		45						1.21.45F2B2/□□		1.21.45E2B2/□□	
		50						1.21.5F2B2/□□		1.21.5E2B2/□□	
		60						1.21.6F2B2/□□		1.21.6E2B2/□□	
Oblique-cross-hinge 		20						1.21.2FK3		1.21.2EK3	V
		30						1.21.3FK3		1.21.3EK3	V
		40						1.21.4FK3		1.21.4EK3	V
		45						1.21.45FK3		1.21.45EK3	V
		50						1.21.5FK3		1.21.5EK3	V
		60						1.21.6FK3		1.21.6EK3	V
90° 		20						1.21.2FK4		1.21.2EK4	V
		30						1.21.3FK4		1.21.3EK4	V
		40						1.21.4FK4		1.21.4EK4	V
		45						1.21.45FK4		1.21.45EK4	V
		50						1.21.5FK4		1.21.5EK4	V
		60						1.21.6FK4		1.21.6EK4	V

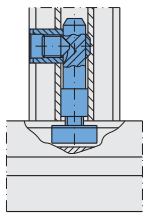
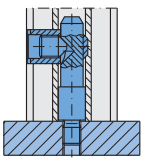
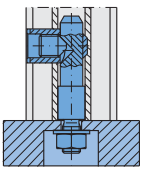
Connection / Connector	Finished dimension	PG	Article-No. for connector with								
			H-head		F-head				E-head		
			steel standard	E	steel standard	E	VA	steel standard	E	VA	
Parallel -square 		20									
		30									
		40			1.21.3F5				1.21.3E5		
		45			1.21.4F5				1.21.4E5		
		50			1.21.45F5				1.21.45E5		
		60			1.21.5F5				1.21.5E5		
-square 90° 		20									
		30									
		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									
		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	50/20	1.21.5/2V0		V
		40/20	1.21.4/2V0		V	30	1.21.5/3V0		V
		30	1.21.4/3V0		V	40	1.21.5/4V0		V
		45/20	1.21.45/2V0		V	45	1.21.5/45V0		V
		30	1.21.45/3V0		V	60/20	1.21.6/2V0		V
		40	1.21.45/4V0		V	30	1.21.6/3V0		V
						40	1.21.6/4V0		V
						45	1.21.6/45V0		V
						50	1.21.6/5V0		V

E = ground-connector, VA = stainless steel 1.4305


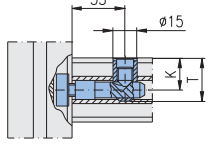
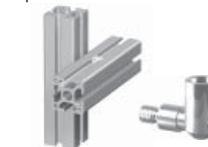
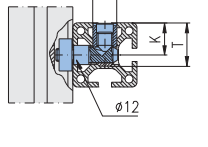
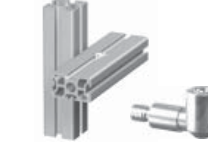
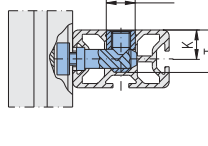
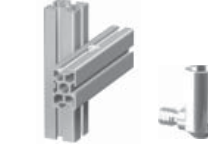
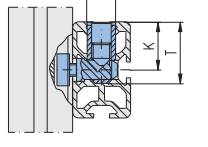
Connection / Connector	Finished dimension	PG	Article-No. for connector		
			steel standard	VA E	
Miter -hinge l + r 		20	1.21.2G1	V	
		30	1.21.3G1	V	
		40	1.21.4G1	V	
		45	1.21.45G1	V	
		50	1.21.5G1	V	
		60	1.21.6G1	V	
-bent anchor l + r 		20	1.21.2GB1/□□		
		30	1.21.3GB1/□□		
		40	1.21.4GB1/□□		
		45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

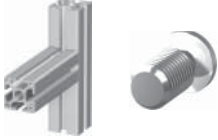
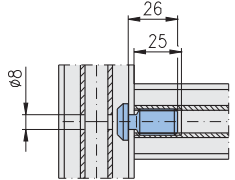
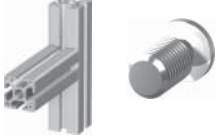
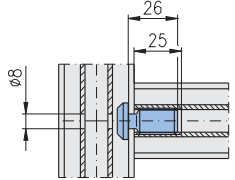
		
Profile with profile	Profile to plate with thread	Profile to plate with through-hole

Mounting instruction for screw-type connectors

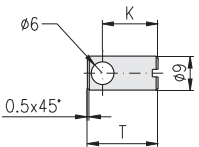
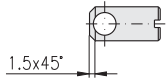

1. Screw anchor in until it stops against the shoulder
2. Unscrew anchor until it lines-up with the cross bushing position (max. one turn)
3. Set up profile with cross bushing

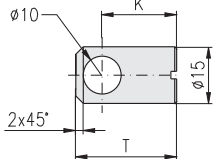
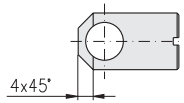

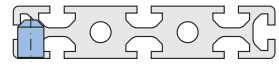

Connection / Connector	Finished dimension	PG	thread	Article-No. for connectors for mounting on profiles with							
				F-slot		E-slot		other			
				Length of thread							
7 mm		11 mm		40 mm							
steel standard	E	VA	steel standard	E	VA	steel standard	E	VA			
Screw-type - front sided 		20	M6				1.21.2S1M6/11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

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

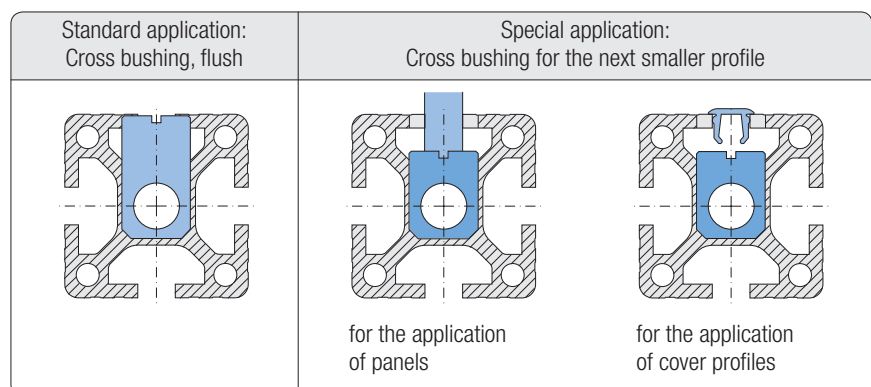
F + E-slots									
	2x45°	Standard	20	10	17	15.25	1.21.B20	V	
				15	22	15.25	1.21.B30	V	
				20	27	15.25	1.21.B40	V	
				20	27	15.25	1.21.B40R		
				22.5	29.5	15.25	1.21.B45	V	
				25	32	15.25	1.21.B50	V	
				30	37	15.25	1.21.B60	V	
				4x45°	  1.11.030030.21S(P)  1.11.030150.84SP	30	15	22	15.25
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

tools ↗ 1.99, VA = stainless steel 1.4305

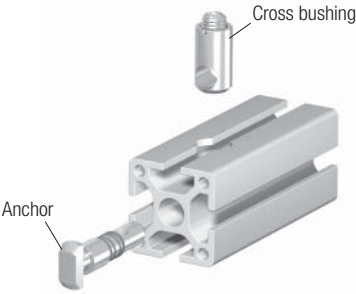
Slot type Connector	Cross bushing	PG/ Profile/ Slot	Core hole distance K	Boring depth, Cross bushing length T	Drill-Ø	Article-No.	
						steel	VA
E-slots							
Special- universal-connector for profile 30×150 ↗ 110		30×150	15	30	15.25	1.21.B31	
Special- SE-Connector ↗ 113		16, E3	-	15	15.25	1.21.BE3	
		E4	-	16	15.25	1.21.BE4	
Special- ST-Connector ↗ 114		E	-	19	15.25	1.21.STBM6	
Special- ST-Connector with screw-type anchor ↗ 115		16, E3	-	40	12.2	1.21.STSB40	

tools ↗ 1.99, VA = stainless steel 1.4305

Mounting variants



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								






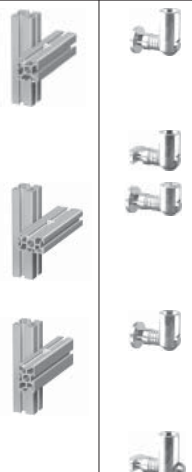
	Cross bushing, steel	1.20.B21		Cross bushing, steel
	Cross bushing, VA	1.20.B21	V	Cross bushing, VA



E = ground-connector, VA = stainless steel 1.4305

¹⁾ = Connector, universal

²⁾ = Connector, screw-type

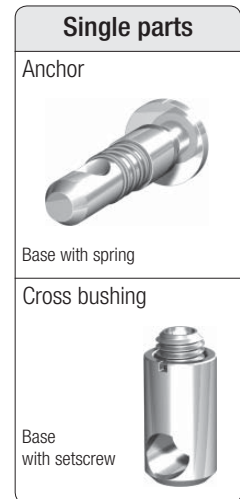
2




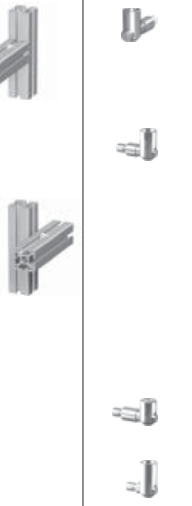
Connector for core hole-Ø 12 mm			Connectors, complete								
			PG 20		PG 30		PG 40				
			steel standard	E VA	steel standard	E VA	steel standard	E VA			
	Universal		1.21.2H0			1.21.3H0			1.21.40H0		
			1.21.2F0	E V	1.21.3F0	E V	1.21.4F0	E V	1.21.4E0	E V	
			1.21.2E0	E V	1.21.3E0	E V	1.21.4E0	E V			
	Standard		1.21.2F1	E V	1.21.3F1	E V	1.21.4F1	E V			
			1.21.2E1	E V	1.21.3E1	E V	1.21.4E1	E V			
	90°		1.21.2F2	E V	1.21.3F2	E V	1.21.4F2	E V			
			1.21.2E2	E V	1.21.3E2	E V	1.21.4E2	E V			
	Square head	Universal									
		Standard	1.21.20E40		1.21.30E40		1.21.40E40				
		90°	1.21.20F41		1.21.30F41		1.21.40F41				
	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			1.21.3FK3			1.21.4FK3		
			1.21.2EK3		V	1.21.3EK3		V	1.21.4EK3		V
	-hinge 90°		1.21.2FK4			1.21.3FK4			1.21.4FK4		
			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⁾			1.21.3F5				
				1.21.2/3E5 ¹⁾			1.21.3E5				
		-square 90°					1.21.3E2-5				
		-cross ¹⁾							1.21.4F5		
									1.21.4E5		
	-high ²⁾					1.21.3/5F5 ¹⁾					
						1.21.3/5E5 ¹⁾					
	-high 90°										



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

E = ground connector, VA = stainless steel 1.4305

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



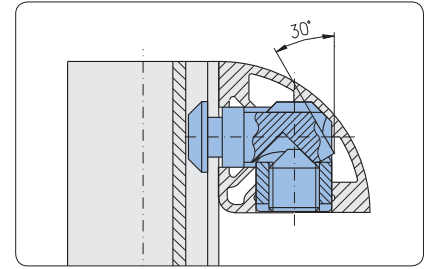
Connector for core hole-Ø 12 mm				Connectors, complete							
				PG 20		PG 30		PG 40			
				steel standard	E	VA	steel standard	E	VA	steel standard	E
	Miter	-hinge l + r	1.21.2G1		V	1.21.3G1		V	1.21.4G1		V
		-bent anchor l + r	1.21.2GB1/□□			1.21.3GB1/□□			1.21.4GB1/□□		
	90°	-hinge l + r	1.21.2G2	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

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

						Single parts			1.21.B20	1.21.B30	1.21.B40	1.21.B45	1.21.B50
PG 45		PG 50		PG 60		Anchor		Piece					
steel standard	E	VA steel standard	E	VA steel standard	E	steel standard	E	VA					
1.21.45G1	V	1.21.5G1	V	1.21.6G1	V	1.21.A1G1	V	V	1	2			
1.21.45GB1/□□		1.21.5GB1/□□		1.21.6GB1/□□		1.21.A1GB1/□□			1	2			
1.21.45G2	V	1.21.5G2	V	1.21.6G2	V	1.21.A1G2	V	V	1	2			
1.21.45GB2L/□□		1.21.5GB2L/□□		1.21.6GB2L/□□		1.21.A1GB2L/□□			1	2			
		1.21.5GB245L/□□		1.21.6GB245L/□□		1.21.A1GB245L/□□			1	2			
1.21.45GB2R/□□		1.21.5GB2R/□□		1.21.6GB2R/□□		1.21.A1GB2R/□□			1	2			
1.21.45GS		1.21.5GS		1.21.6GS		1.21.A1GS			1	2			
1.21.45V0	V	1.21.5V0	V	1.21.6V0	V	1.21.A1V0	V	V	1	2	-	-	-
1.21.45/2V0	V	1.21.5/2V0	V	1.21.6/2V0	V	1.21.A1V0	V	V	1	1	1	-	-
1.21.45/3V0	V	1.21.5/3V0	V	1.21.6/3V0	V	1.21.A1V0	V	V	1	1	-	1	-
1.21.45/4V0	V	1.21.5/4V0	V	1.21.6/4V0	V	1.21.A1V0	V	V	1	1	-	-	1
		1.21.5/45V0	V	1.21.6/45V0	V	1.21.A1V0	V	V	1	1	-	-	-
		1.21.6/5V0	V	1.21.A1V0	V	1.21.A1V0	V	V	1	1	-	-	-
1.21.45S1M6/11		1.21.5S1M6/11		1.21.6S1M6/11		1.21.A1SM6/11			1	1			
1.21.45S1M8/7		1.21.5S1M8/7		1.21.6S1M8/7		1.21.A1SM8/7			1	1			
1.21.45S1M8/11	V	1.21.5S1M8/11	V	1.21.6S1M8/11	V	1.21.A1SM8/11	V	V	1	1			
1.21.45S1M8/40		1.21.5S1M8/40		1.21.6S1M8/40		1.21.A1SM8/40			1	1			
						1.21.A2SM8/11			1	1			
						1.21.A3SM8/7			1	1			
						1.21.A3SM8/11			1	1			
						1.21.A4SM8/7			1	1			
1.21.45S5M8/11						1.21.A4SM8/11			1	1			
						1.21.A45SM8/11			1	1			
		1.21.5S5M8/11				1.21.A5SM8/11			1	1			
				1.21.6S5M8/11		1.21.A6SM8/11			1	1			
						1.21.A3SM8/11			1	1			
						1.21.A5SM8/11			1	1			
						1.21.A2SM8/11			1	1			
		1.21.5/3S5M8/11				1.21.A3SM8/11			1	1			
1.21.B45		1.21.B50		1.21.B60		<i>Cross bushing, steel</i>							
1.21.B45	V	1.21.B50	V	1.21.B60	V	<i>Cross bushing, VA</i>							

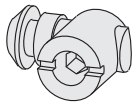


Parallel connector
for profile 30×30, soft



Application

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



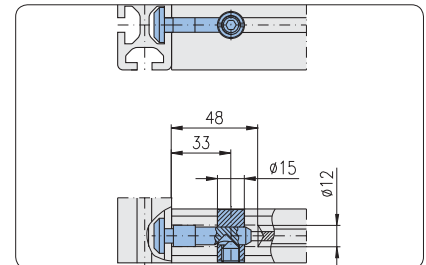
Description

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

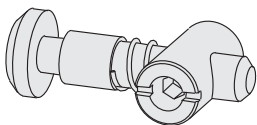
Universal connector
for profile 30×150



Drill dimensions

Application

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



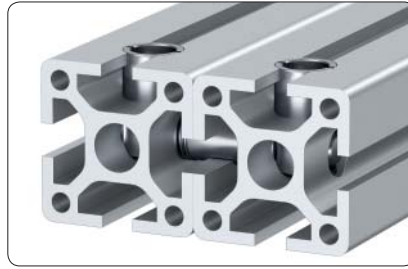
Description

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

Single parts

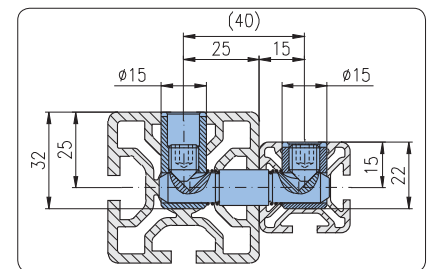
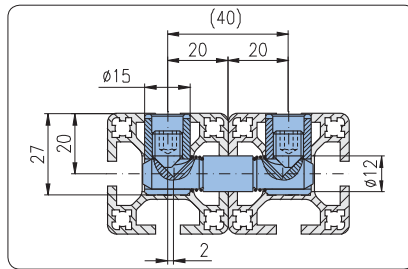
Description	Weight	Article-No.
Anchor, incl. spring	41 g	1.21.A1E0
Cross bushing, incl. setscrew	27 g	1.21.B31

Extension / parallel connector

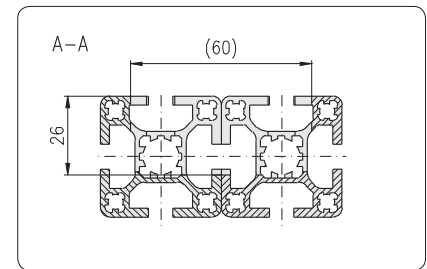


Application

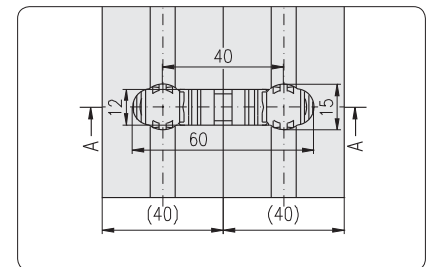
- Parallel connections with core hole distance of 40 mm
- Profile extensions



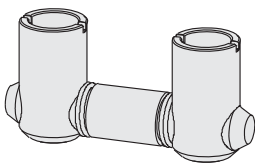
Insert front-sided



Profile machining



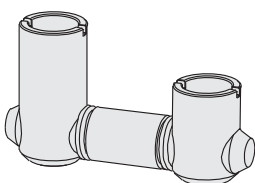
Profile machining



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

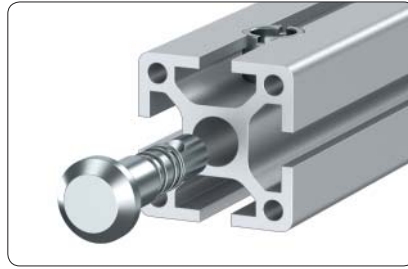



Description	Weight	Article-No.
Connector extension / parallel	76 g	1.21.50/30V040

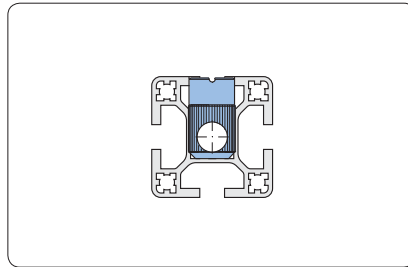
Single parts


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

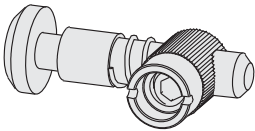
Universal connector
with knurled cross bushing



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

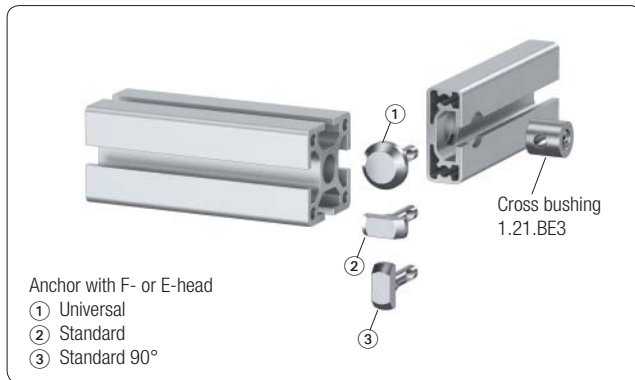


Description	Weight	Article-No.
Connector, universal with knurled cross bushing	60 g	1.21.40RE0

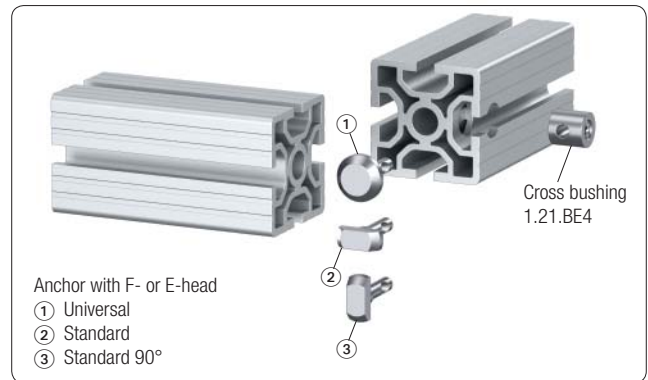
Single parts

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	standard	VA	steel	standard	VA	steel	standard	VA		
	Universal		1.21.SE3F0			1.21.SE4F0			1.21.ASEF0			1	1
			1.21.SE3E0			1.21.SE4E0			1.21.ASEE0				1
	Standard		1.21.SE3F1			1.21.SE4F1			1.21.ASEF1			1	1
			1.21.SE3E1			1.21.SE4E1			1.21.ASEE1				1
	90°		1.21.SE3F2			1.21.SE4F2			1.21.ASEF2			1	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

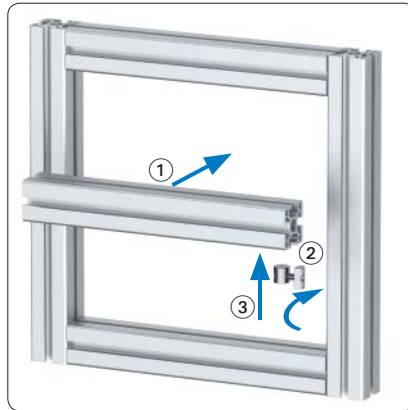


ST-Connector



Application

Connector for mounting into E-slot and for connection of profiles 30×150
Alternative connection possibility
↔ *Universal connector, 110*

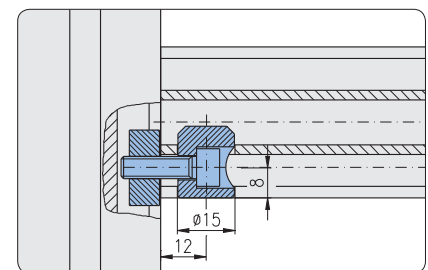
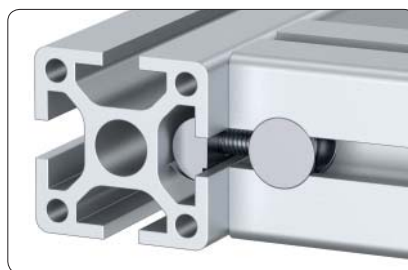
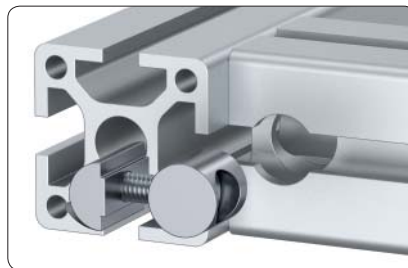


Application

ST-Connector for later insertion of profiles into closed frames

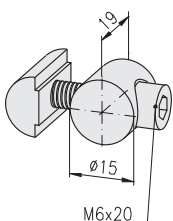
Assembly

- 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	M6×20	5.3 g	0.63.D00912.06020

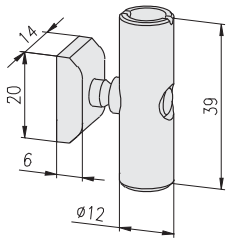
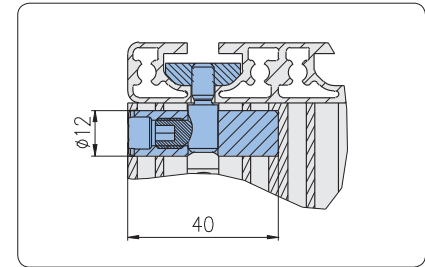
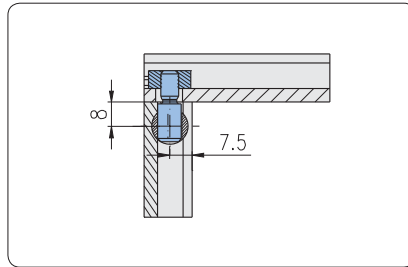


**ST-Connector
with anchor, screw-type**



Application

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



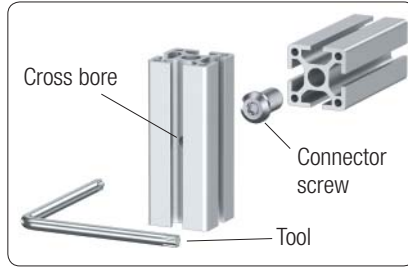
Connector complete

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

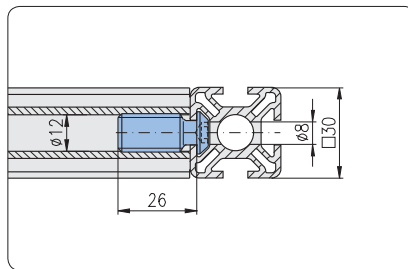
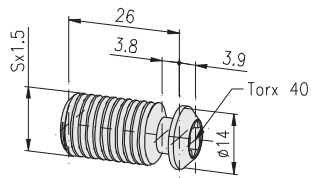
Simple connections with profiles using a 12 mm core hole

Technical data

material: steel 8.8
surface: galvanised

Tool

Tx screw driver for Torx® 40 screws
1.98.T40.090090



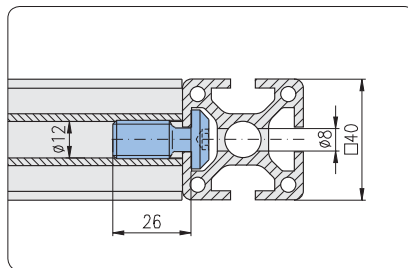
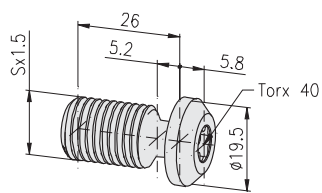
Description

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

Cross connector



Application

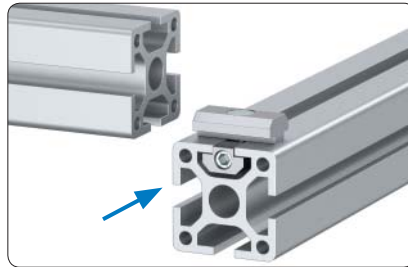
- quick assembly
- connection without profile machining

Technical data

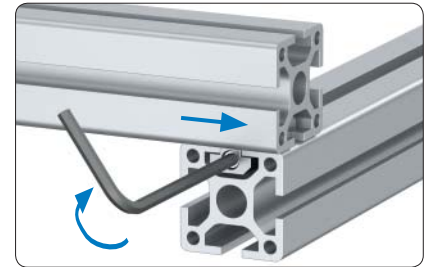
Lower section, upper section, bolt, screw:

material: steel
surface: galvanised

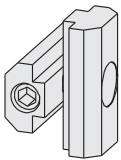
Assembly



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

Weight

53.5 g

Article-No.

1.25.41.E3

Cross connector E4

55.0 g

1.25.41.E4

Parallel connector
for subsequent insertion



Application

- quick assembly
- connection without profile machining

Assembly



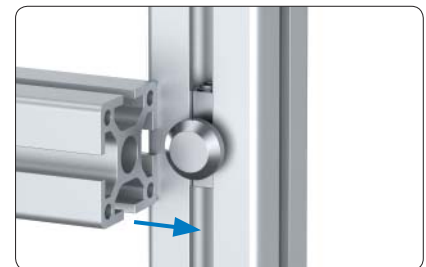
position the setscrew



insert the T-Nut



insert and pretension the anchor



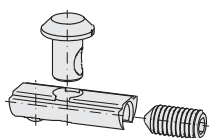
push on and position the profile



fasten the setscrew

Technical data

material: steel
surface: galvanised



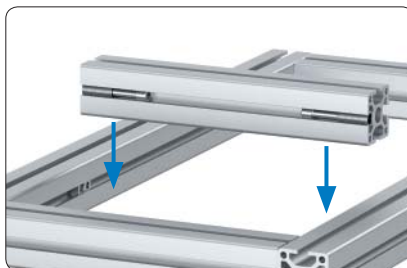
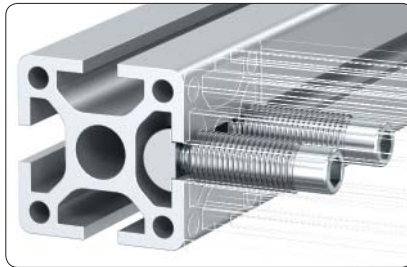
Description	Weight	Article-No.
Parallel connector, for subsequent insertion, E3/H	21.7 g	1.25.E3H/5
Parallel connector, for subsequent insertion, E3/F	24.6 g	1.25.E3F/5
Parallel connector, for subsequent insertion, E3/E3	32.6 g	1.25.E3E3/5
Parallel connector, for subsequent insertion, E4/F	25.0 g	1.25.E4F/5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

Insertion connector



Application

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



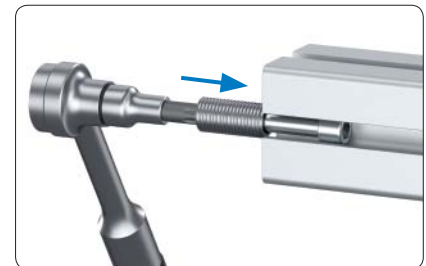
Application

Suitable for the subsequent mounting of profiles

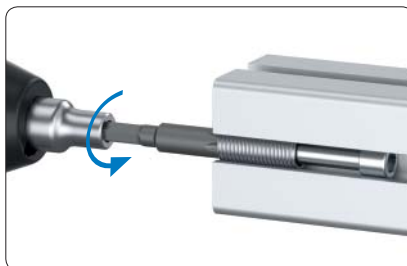
Pre-assembly of the threaded sleeve



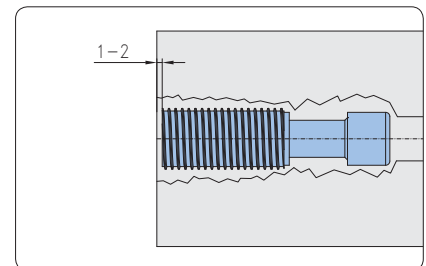
threaded sleeve with screw



insert the sleeve with screw into the slot



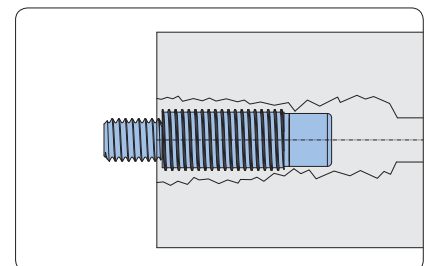
screw in the sleeve



end position of the sleeve



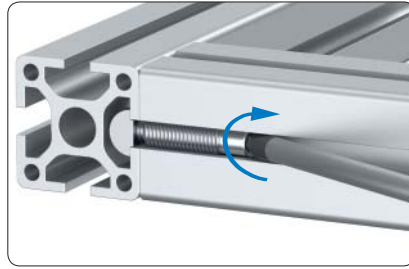
press the screw with a screwdriver through the sleeve



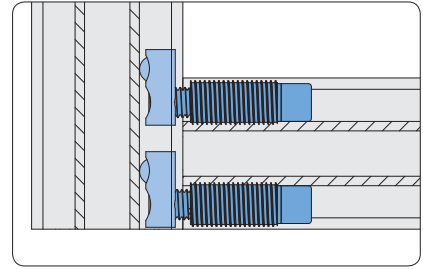
end position of the screw

Final assembly

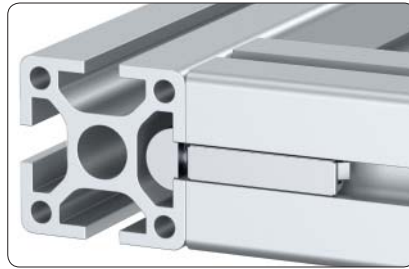
Insertion connector with T-Nut



insert T-Nut in slot of the opposition profile and tighten screw



T-Nut for subs. insertion w. spring ball, E, M8; either with one or two connectors

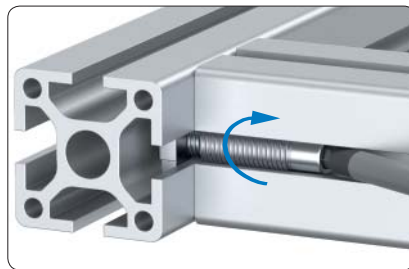


Optional

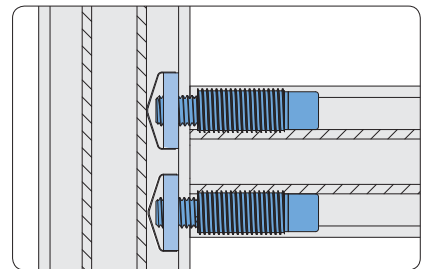
clip on the connector cover

Final assembly

Insertion connector with threaded plate

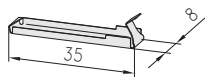
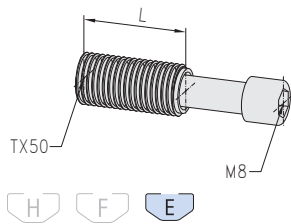
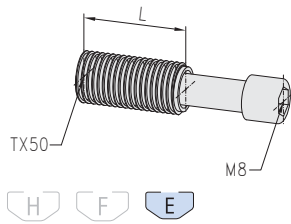


insert threaded plate in slot of the opposition profile and tighten screw



threaded plate, E, M8; either with one or two connectors

Insertion connector



Technical data

Threaded sleeve, screw:
 material: steel
 surface: galvanised
 max. moment of torque: $M_{A, max}$
 torque resistance: R

Suitable fastening elements for E-slots

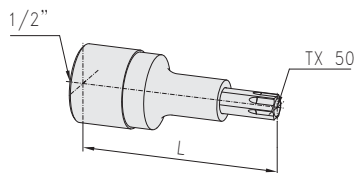
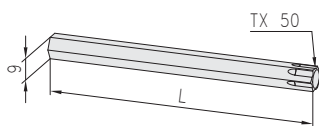
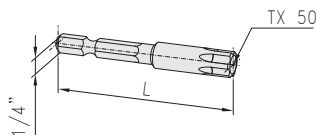
Threaded plate
 - heavy, E, M8 1.31.6EM8
 - E, M8 1.31.EM8
 T-Nut
 - for subs. ins. w. spring b., E, M8 1.32.3EM8
 - for subs. ins. w. spring, E, M8 1.32.4EM8
 - with spring, E, M8 1.32.EM8

Description	L	$M_{A, max}$	R	Weight	Article-No.
Insertion connector	24	22 Nm	low	20 g	1.26.EM8.24L

Description	L	$M_{A, max}$	R	Weight	Article-No.
Insertion connector	24	25 Nm	high	20 g	1.26.EM8.24S
Insertion connector	32	25 Nm	high	27 g	1.26.EM8.32S

Description	Weight	Article-No.
Connector cover stainless for insertion connector L24	0.5 g	1.26.EM8.A24

Torx® Tools

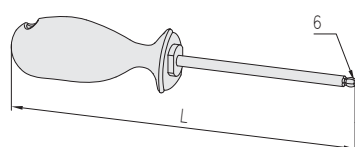
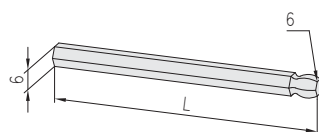


Description	L	Drive	Weight	Article-No.
Screw bit TX 50	50	1/4"	16 g	1.98.TX50A1/4

Description	L	Drive	Weight	Article-No.
Screw bit TX 50	95	9	49 g	1.98.TX50A09

Description	L	Weight	Article-No.
Screwdriver insert TX 50	55	72 g	1.98.TX50A1/2

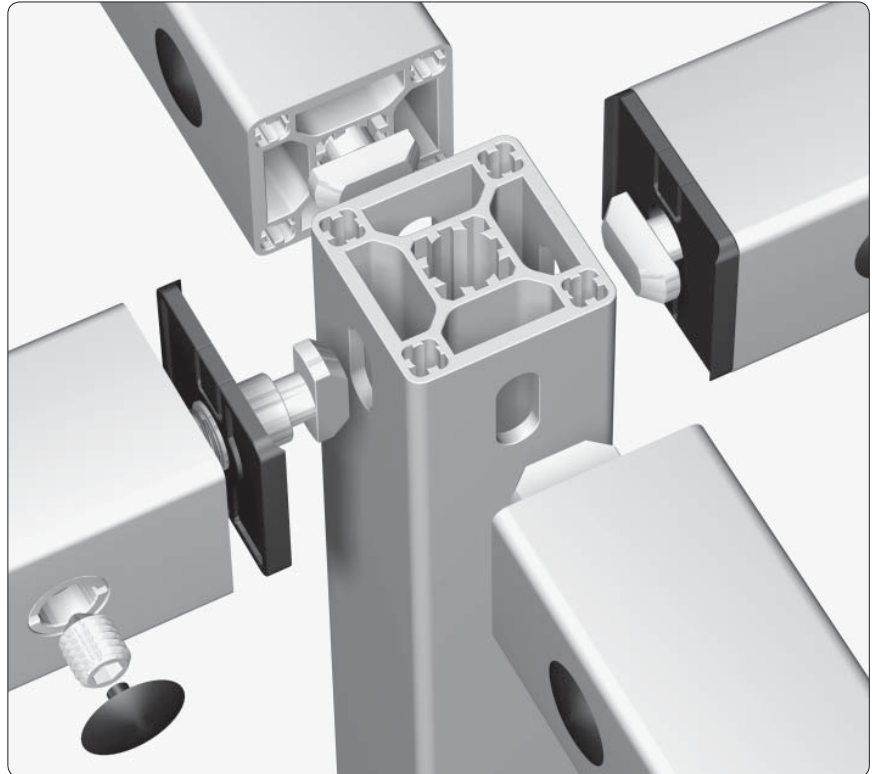
Hexagonal tools



Description	L	Drive	Weight	Article-No.
Hexagonal bit with ballhead wrench size 6	100	6	23 g	1.98.IN.SW6.100

Description	L	Weight	Article-No.
Hexagonal screwdriver with ballhead wrench size 6	215	122 g	1.98.IN.SW6.215

Connection of
0-slot profiles



Comments

Connector ↗ 1.2A

Connector - drill dimensions

without radius covers

PG 30	PG 40
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

**Specification of milling patterns
for closed profiles**

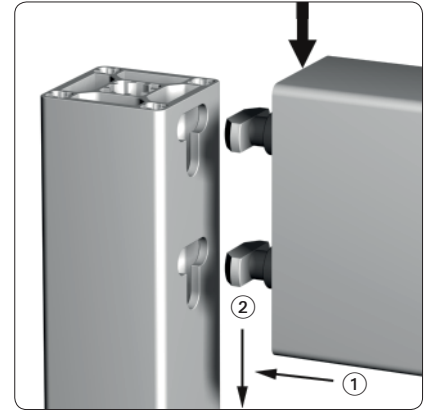
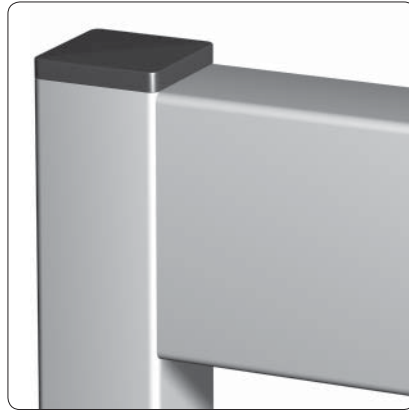
VB□□□ / □□□□-□□.□	Key
VB□□□ / □□□□-□□.□	Shortcut for " V erbinder- B ohrung"
VB□□□ / □□□□-□□.□	Specification of the milling pattern ¹⁾
VB□□□ / □□□□-□□.□	Number of pattern elements ²⁾
VB□□□ / □□□□-□□.□	Direction of the profile side ↗ 61
VB□□□ / □□□□-□□.□	Distance of the reference point to the left end of the profile [mm]
VB□□□ / □□□□-□□.□	Angle of the connection (in case of VB3 or VB4)

- ¹⁾ 1 = "T" shape milling pattern for standard connector (Standard)
↗ 124
- 2 = upside-down "T" shape milling pattern for standard connector
↗ 125
- 5 = elongated hole for connection
- with standard connectors ↗ 126
- with T-Nuts ↗ 127
- 6 = half circle for miter 3-way connection ↗ 128
- ²⁾ Specification with "A", "B", "C", same as for the amount of cross
bushing bores ↗ 60

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

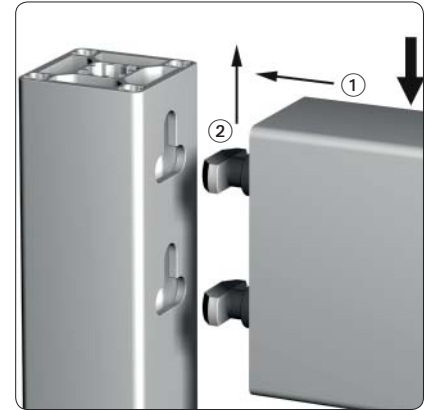
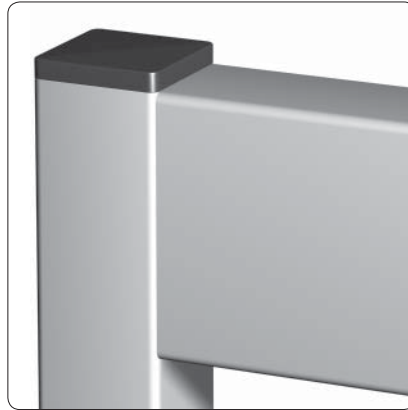
Fabrication measurements

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

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

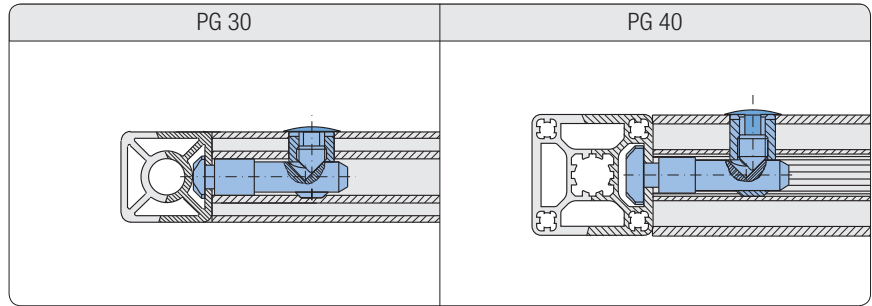
Assembly

- 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>
Machining data VB2A□/□□□□		
<p>For fastening of profile 30×60</p>	<p>For fastening of profile 40×80</p>	<p>For fastening of profile 45×90</p>
Machining data VB2B□/□□□□		
<p>For fastening of profile 60×60</p>	<p>For fastening of profile 80×80</p>	<p>For fastening of profile 90×90</p>
Machining data VB2D□/□□□□		

Connection with standard connectors



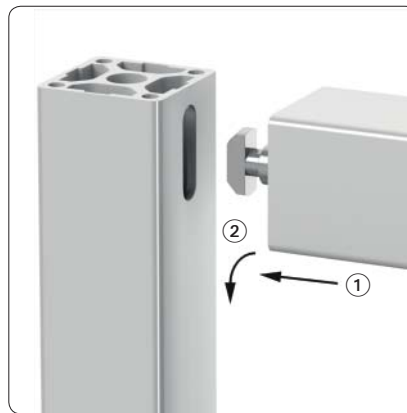
Single parts

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

Single parts

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

Mounting variation for profiles with 1 connector



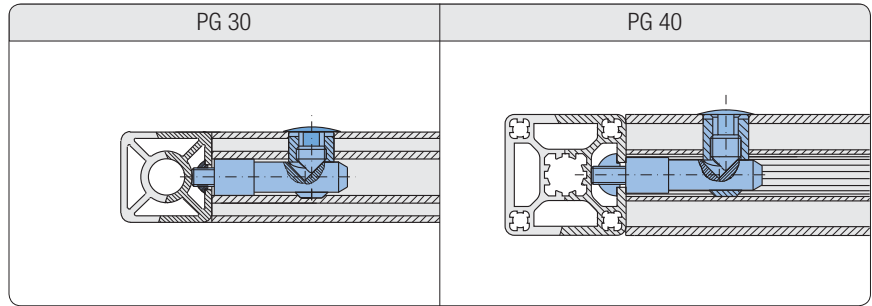
Assembly

- ① insert connector
- ② turn profile

Fabrication measurements

PG 30	PG 40	PG 45
<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>Machining data VB5A□/□□□□</p>		

Connection with screw-type connectors



Single parts

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

Single parts

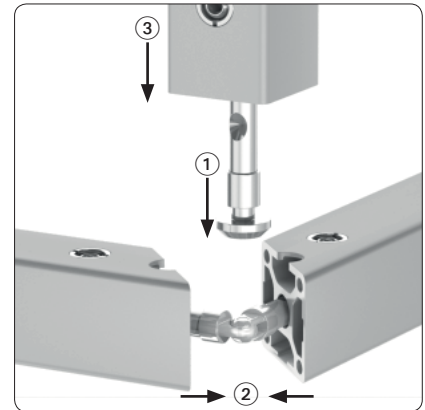
- Screw-type connector 1.21.4S1M8/11 (V)
- T-Nut for subsequent insertion, with spring, E 1.32.4EM8 (V)

Fabrication measurements

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



Assembly variation
for 3-way connection with miter connectors



Assembly

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

Fabrication measurements

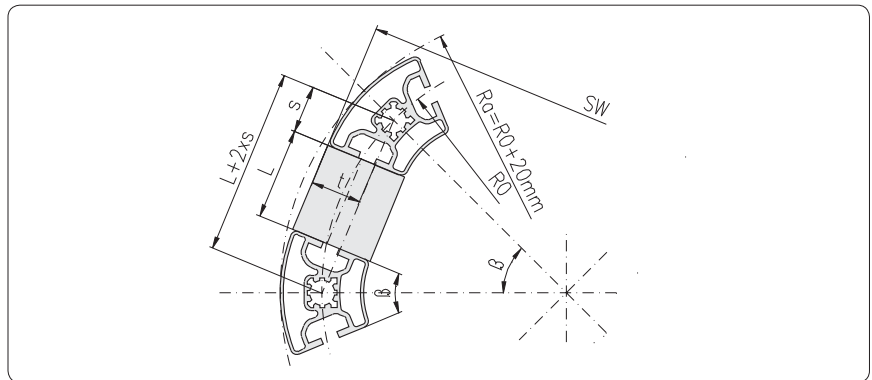
PG 30	PG 40
<p>For fastening of profile 30×30</p>	<p>For fastening of profile 40×40</p>
<p>Machining data VB6A□/□□□□-□□.□</p>	
	<p>For fastening of profile 80×80</p>
	<p>Machining data VB6B□/□□□□-□□.□</p>

Connection of profiles 40, round



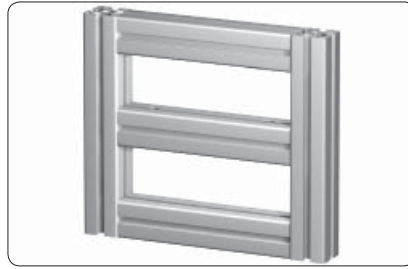
Drill dimensions for profiles 40, round			
30°		45°	
60°		90°	

Calculation formulas for polygons

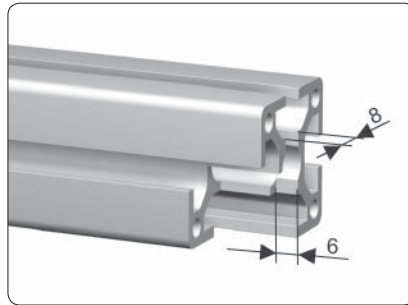


known	searched	Profile 40, round 30° ($\beta = 30^\circ$)	Profile 40, round 45° ($\beta = 45^\circ$)	Profile 40, round 60° ($\beta = 60^\circ$)
		$t = 22.04$ $s = 15.53$	$t = 24.57$ $s = 22.96$	$t = 28.04$ $s = 30.00$
R_0	L =	$R_0 \times 0,51764 - 31,06$	$R_0 \times 0,76537 - 45,92$	$R_0 - 60$
R_a	L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

Subsequent mounting of profiles

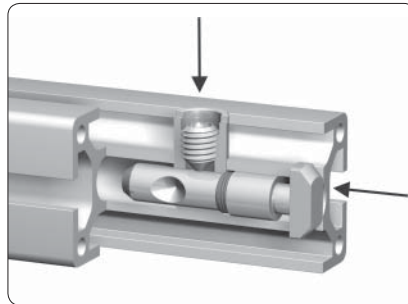


Step by step instruction for subsequent mounting of profiles with two standard connections for all profile groups

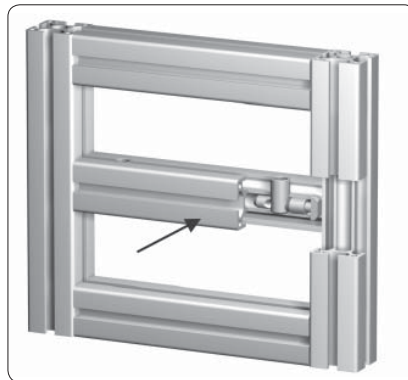


For the subsequent mounting of the profile:

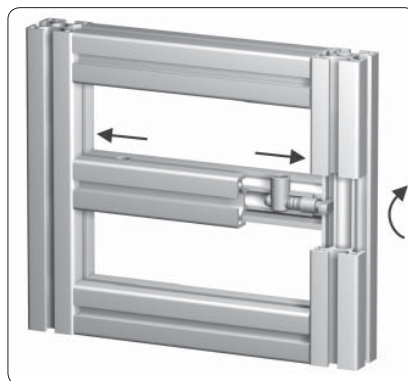
1. Mill on both ends a slot size of 6×8 mm.



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

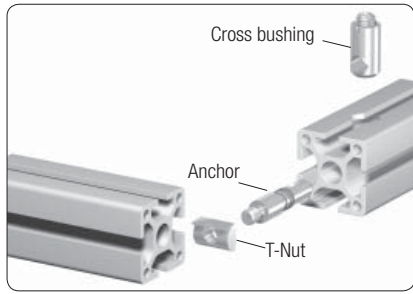


3. Mount profile.



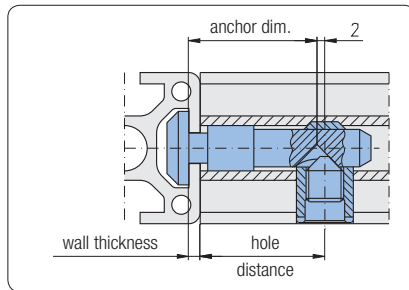
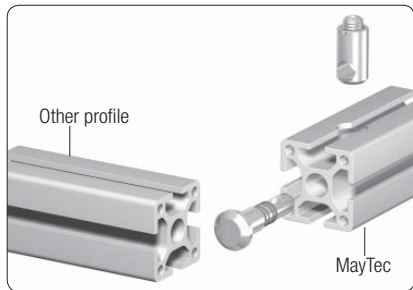
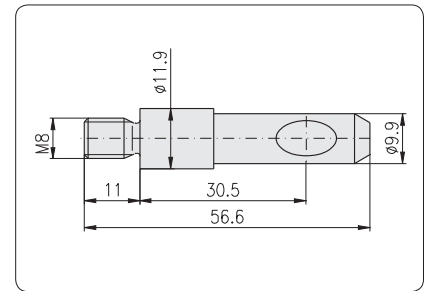
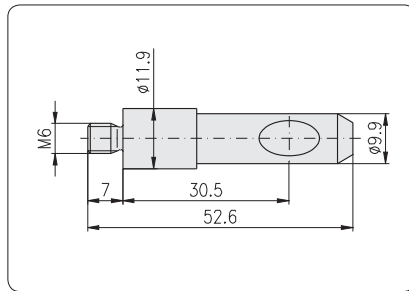
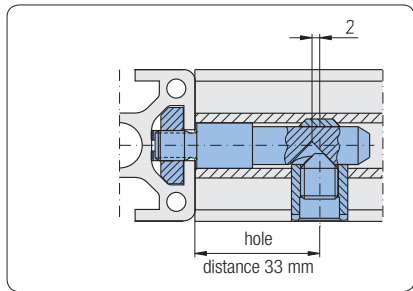
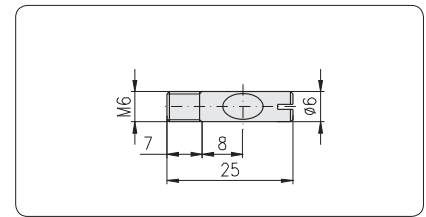
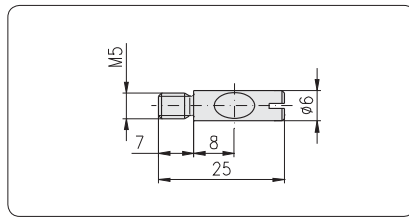
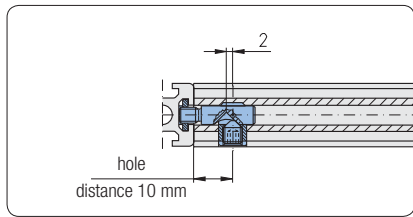
4. Loosen setscrew.
Due to the compressing spring the anchor is pushed into the slot.
Turn anchor by 90° with screw driver.
Fasten setscrew.

Connection of MayTec with other profile systems



MayTec profiles can easily be combined with other profile systems.

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



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

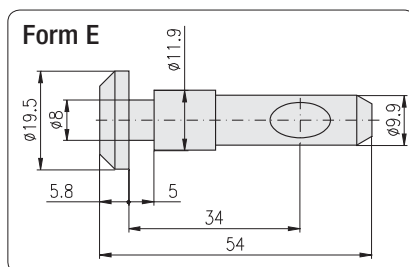
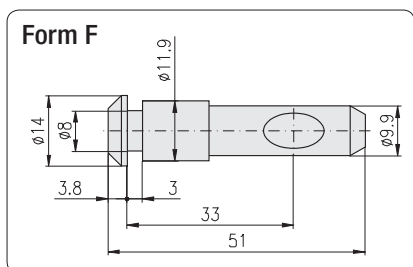
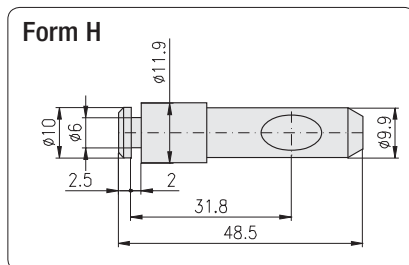
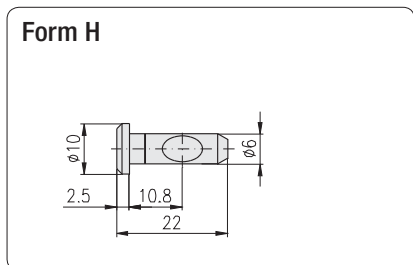
1. Anchor head-form and size

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

2. Hole distance

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

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



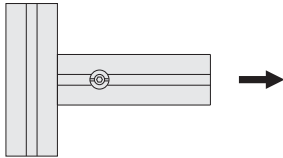
Torque tightening values for connector setscrew

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

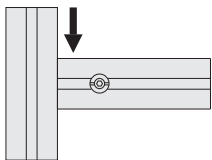


PG	Slot	max. Tensile strength				
		Connector			T-Nut	
		Standard	Universal	Square head		
20	H	-	1,500 N	-	M4	4,000 N
	F	5,000 N	6,000 N	8,000 N	M8	8,000 N
30	F	5,000 N	6,000 N	8,000 N	M8	8,000 N
40	E	10,000 N	12,000 N	12,000 N	M8	12,000 N
45	E	15,000 N	18,000 N	20,000 N	M8	20,000 N
50	E	15,000 N	18,000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

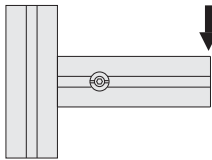
Comments

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



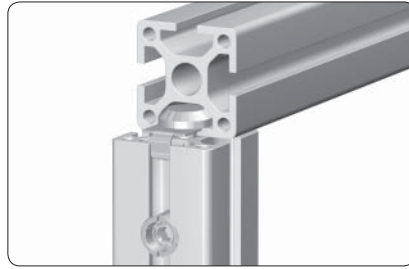
Flexure load



PG	Profile	Slot	Pcs	max. Slide strength		max. Flexure strength		
				Standard, Universal, Square head	E-connector (Standard, Universal)	Connector		
						Standard, Universal, Square head		
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	1,500 Nm	
	30×150, 8F	3	15,000 N	22,500 N				
	60×60 angle	3	15,000 N	22,500 N	500 Nm	800 Nm		
	60×60	4	20,000 N	30,000 N				
	30×150	E	2	12,000 N	18,000 N	500 Nm	2,000 Nm	
	40	40×40	E	1	6,000 N	9,000 N	250 Nm	250 Nm
40×60		1		6,000 N	9,000 N			
40×80		2	12,000 N	18,000 N	500 Nm	1,000 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	2,000 Nm	6,000 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	2,880 Nm	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	3,600 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			

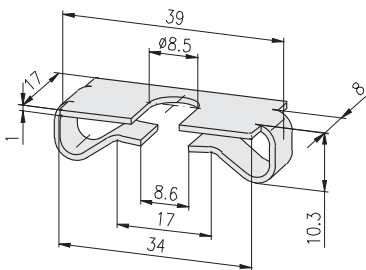
The listed values are valid for all light and heavy profiles

Anti-twist devices



Technical data

material: steel
surface: galvanised



Description

Anti-twist device for connector

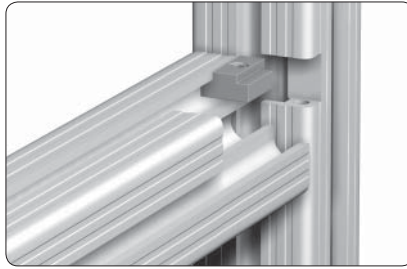
Weight

11 g

Article-No.

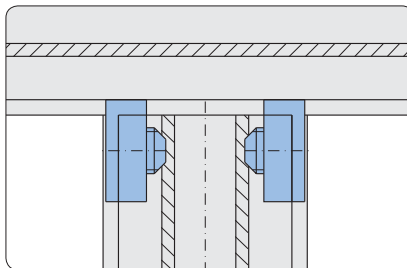
1.29.11240

Anti-twist devices

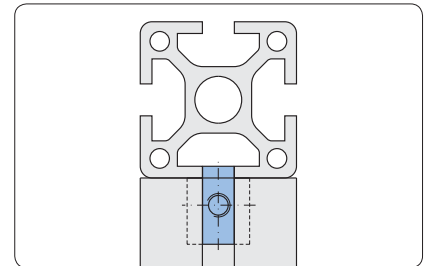


Application

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



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

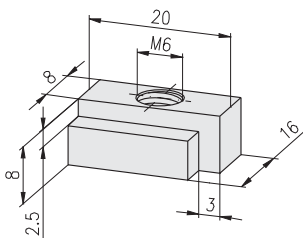
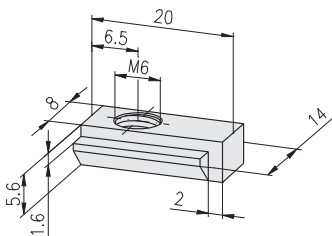


Technical data

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

Fastening elements

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



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

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

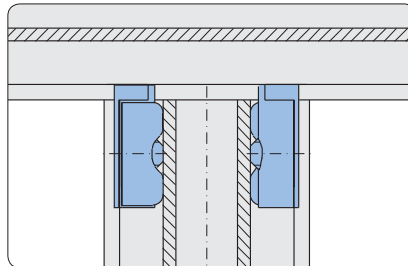
Anti-twist devices
for subsequent insertion



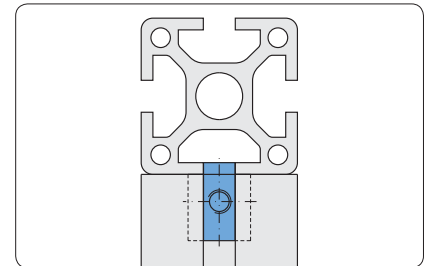
Application

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

- for subsequent insertion

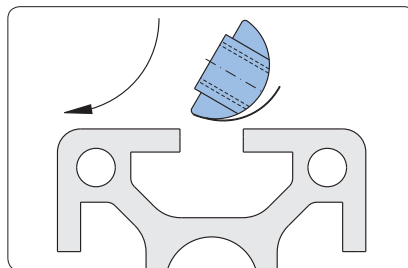


The nose of the anti-twist device fits into the basic profile.



Technical data

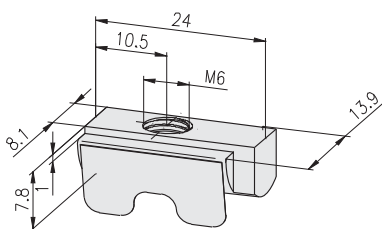
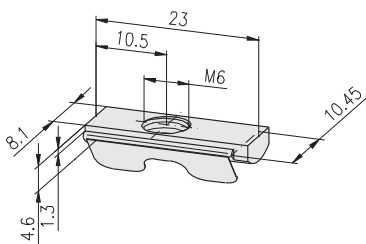
material: steel
surface: galvanised
max. moment of torque: $M_{A, max}$



Insert front-sided and rotate

Fastening elements

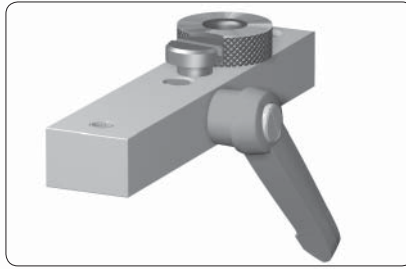
F-slot:
Setscrew ISO 4026 M6×8 1.20.G0608
E-slot:
Setscrew ISO 4026 M6×12 1.20.G0612



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

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

Clamping levers



Clamping lever for drill jigs

Application

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

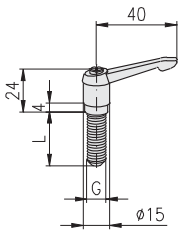


Clamping lever for connector

Technical data

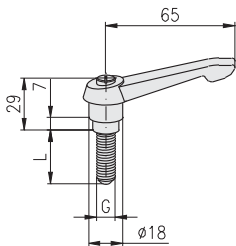
clamping handle: PA-glass-fiber reinf.
clamping lever: with ratchet lever handle
annular gear: die casted zinc
thread: steel

Clamping levers 40
for connector



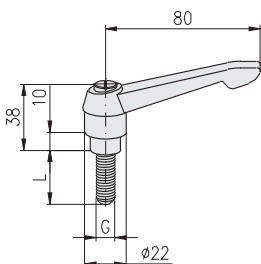
Description	G	L	Weight	Article-No.
Clamping lever 40 for connector	M6	20	17 g	1.29.500620
Clamping lever 40 for connector	M8	20	21 g	1.29.500820
Clamping lever 40 for connector	M10	20	24 g	1.29.501020
Clamping lever 40 for connector	M10	30	29 g	1.29.501030

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



Sliding and cover
profiles
↗ 158



Reducing profiles
↗ 159



Combination profiles
↗ 160



Combination profiles
↗ 161



Combination profiles
for sliding profiles
↗ 163



Guide profile
for sliding profile
↗ 164



Framing profiles
one piece
↗ 165



Wedge profiles
↗ 166



Sponge rubber
round cords
↗ 167-168



Sealing profile
↗ 169



Framing profiles
↗ 170-171



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
↗ 177



Cover caps
for tubes
↗ 178



Cover caps
for screw bores
↗ 178



Radius covers
↗ 179-180



Radius compensations
↗ 181



Floor levelling
screws
↗ 182



Levelling foot PA 20
↗ 182



Hand adjustable feet
↗ 183



Levelling feet
↗ 184



Adjustable tilt-feet
↗ 185-189



Angular adjusting feet
↗ 190



Base foot
↗ 191



Base feet
↗ 192-196



Base angle
↗ 197



Stacking foot
↗ 197



Fixed castors
↗ 198



Swivel castors
↗ 199



Swivel castors
lockable
↗ 199



Locking castors
↗ 200-201



Angles
↗ 202



Angles PA
↗ 203



Angles GD-Zn
↗ 204-206



Angles GD-Al
↗ 207



Angles Alu
↗ 208



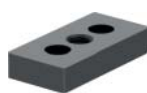
Swivel angles
straight design
↗ 209



Swivel angles
↗ 209-210



Cross connection
plates
↗ 210



Base plates
↗ 211-212



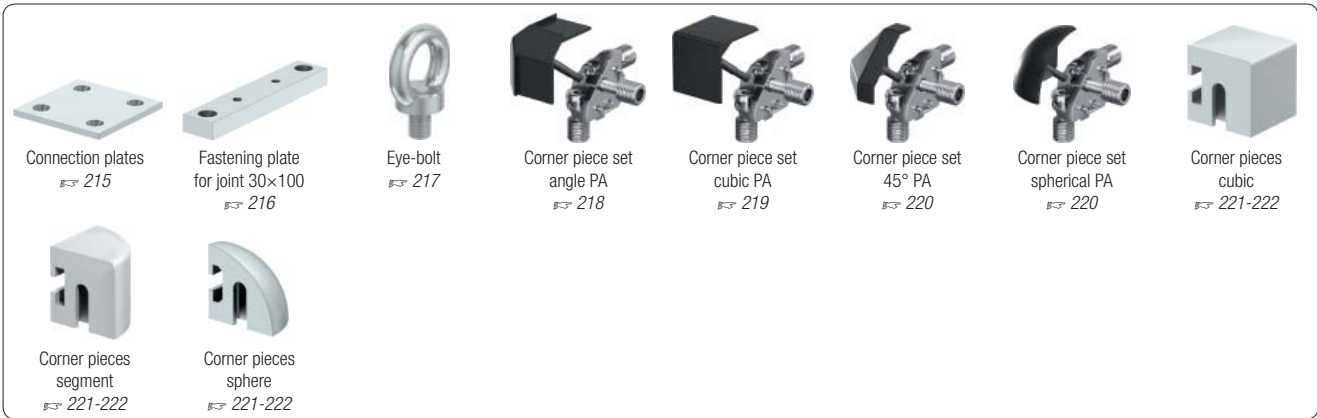
Floor mounting plate
↗ 213



Mounting plates
↗ 214



Floor plate
↗ 214

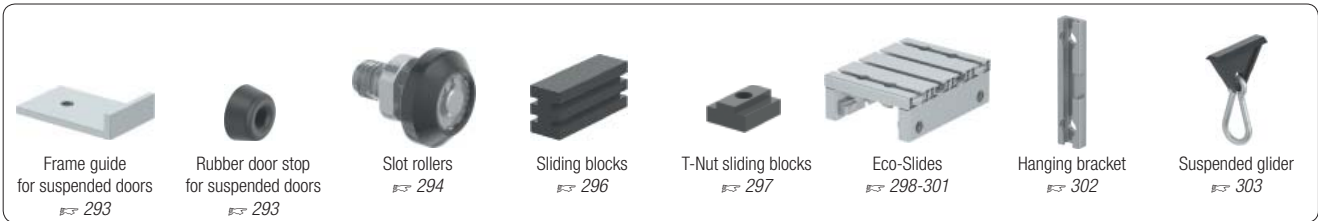


1.5 Pneumatic accessories



1.6 Additional accessories





1.7 Electrical accessories

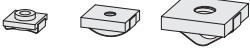


1.8 Panel elements



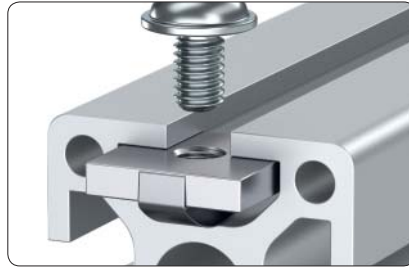
1.9 Tools



Description	Assembly		Fixation	Thread	Article-No. for fastening element for						↗	
	H-slot	F-slot			E-slot	H-slot		F-slot		E-slot		
						steel	VA	steel	VA	steel		VA
Threaded plates 			●	leaf spring	M3	1.31.HM3		1.31.FM3		1.31.EM3		142
					M4	1.31.HM4		1.31.FM4		1.31.EM4		
					M5	1.31.HM5		1.31.FM5		1.31.EM5		
					M6			1.31.FM6		1.31.EM6		
					M8					1.31.EM8		
- for subsequent insertion				-	M3	1.31.4HM3						143
- heavy			●	leaf spring	M6					1.31.6EM6		144
					M8					1.31.6EM8		
			●	leaf spring	2×M6					1.31.6E2M6		
					2×M8					1.31.6E2M8		
			●	-	M6					1.31.7EM6		
T-Nuts			●	leaf spring	M6			1.32.FM6		1.32.EM6		145
	- with spring				M8			1.32.FM8		1.32.EM8		
- for subs. insertion, with spring ball			●	spring ball	M4					1.32.3EM4		146
					M5					1.32.3EM5		
					M6					1.32.3EM6		
					M8					1.32.3EM8		
- for subs. insertion, with spring			●	leaf spring	M3			1.32.4FM3		1.32.4EM3		147
					M4			1.32.4FM4		1.32.4EM4	V	
					M5			1.32.4FM5		1.32.4EM5	V	
					M6			1.32.4FM6	V	1.32.4EM6	V	
					M8			1.32.4FM7	V	1.32.4EM8	V	
			●	leaf spring	2×M8					1.32.4E2M8.41		
			●	leaf spring	2×M4			1.32.4F2M4.25		1.32.4E2M4.25		148
Spring-nuts			●	compressing spring	M3			1.33.FM3		1.33.EM3		149
					M4			1.33.FM4		1.33.EM4		
					M5			1.33.FM5		1.33.EM5		
					M6			1.33.FM6		1.33.EM6		
T-slot nuts			●	-	M4			1.34.10FM4		1.34.10EM4		150
					M5			1.34.10FM5		1.34.10EM5		
					M6			1.34.10FM6		1.34.10EM6		
Rhomboid T-slot nuts			●	self-locking	M3					1.34.20EM3		151
					M4					1.34.20EM4		
					M5					1.34.20EM5		
					M6					1.34.20EM6		
T-Bolts			●	compressing spring	M6×20			1.34.FM62		1.34.EM62		152
					×30			1.34.FM63		1.34.EM63		
					M8×20			1.34.FM82		1.34.EM82		
					×25					1.34.EM825		
					×30			1.34.FM83		1.34.EM83		
				×40					1.34.EM84			

VA = stainless steel 1.4305

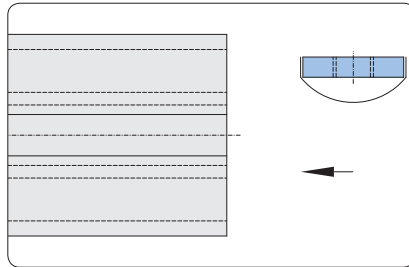
Threaded plates



Fixed into position with leaf spring

Application

Fastening element for screw-type connections

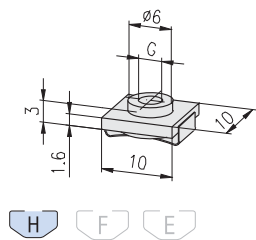


Assembly

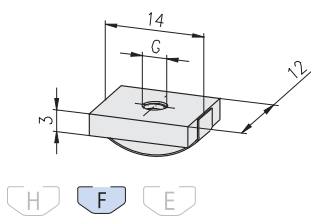
Insert from end

Technical data

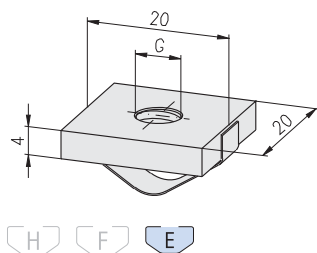
material: steel
 surface: galvanised
 max. moment of torque: $M_{A, max}$



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



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



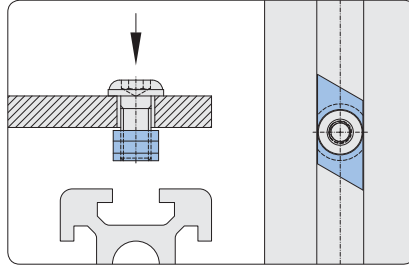
Description	G	$M_{A, max}$	Weight	Article-No.
Threaded plate E	M3	1.3 Nm	12.0 g	1.31.EM3
Threaded plate E	M4	3.0 Nm	11.8 g	1.31.EM4
Threaded plate E	M5	5.0 Nm	11.6 g	1.31.EM5
Threaded plate E	M6	8.0 Nm	11.3 g	1.31.EM6
Threaded plate E	M8	15.0 Nm	11.0 g	1.31.EM8

**Threaded plates
for subsequent insertion**



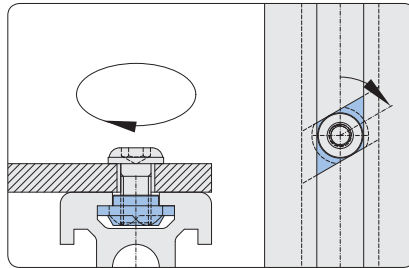
Application

Fastening element for screw-type connections



Assembly

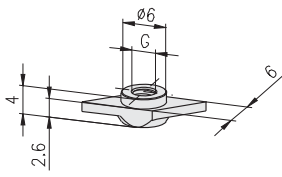
Insert frontally



turn 60°

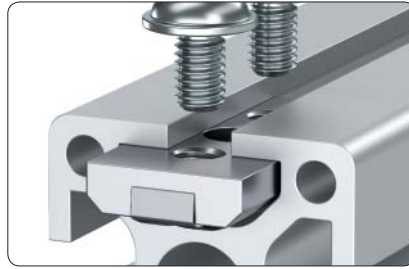
Technical data

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

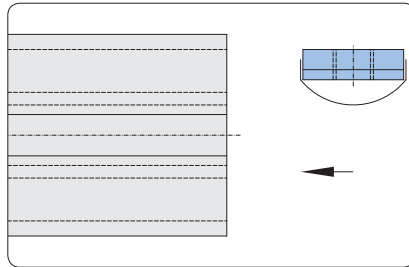


Fixed into position with leaf spring

Application

Fastening element for

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

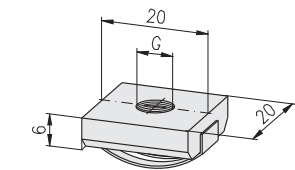


Assembly

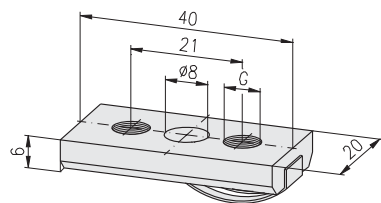
Insert from end

Technical data

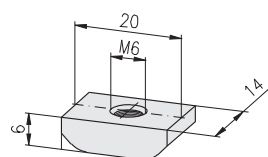
material: steel
 surface: galvanised
 max. moment of torque: $M_{A, max}$



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



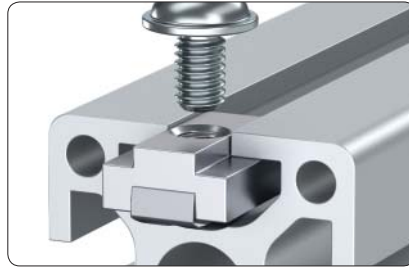
Application

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

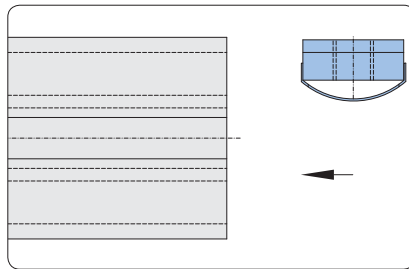
T-Nuts with spring



Fixing with leaf spring

Application

Fastening element for screw-type connections

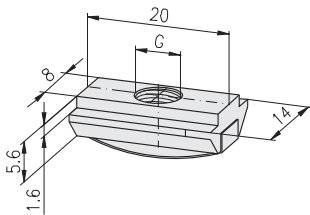


Assembly

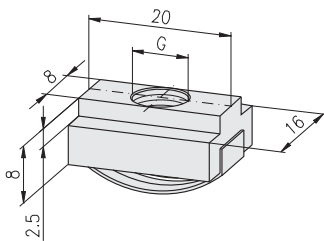
Insert from end

Technical data

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

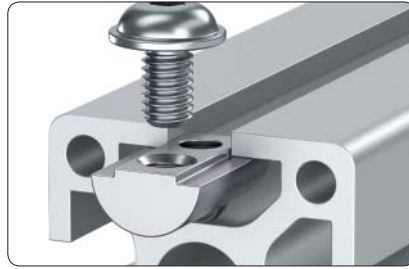


Description	G	$M_{A, max}$	Weight	Article-No.
T-Nut with spring F	M6	10 Nm	7.0 g	1.32.FM6
T-Nut with spring F	M8	26 Nm	6.6 g	1.32.FM8



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

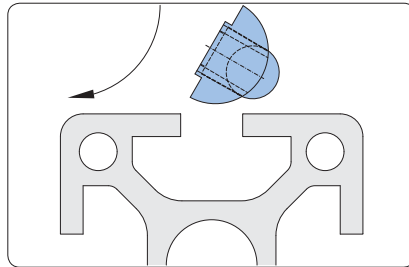
**T-Nuts
for subsequent insertion,
with spring ball**



Fixing with spring ball

Application

Fastening element for screw-type connections

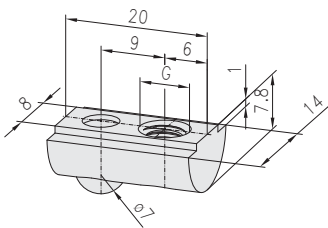


Assembly

Insert front-sided and rotate

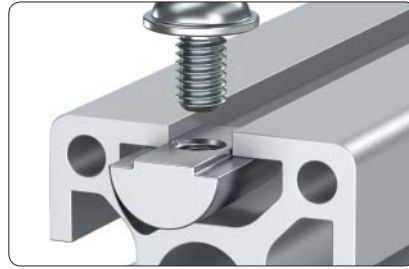
Technical data

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



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

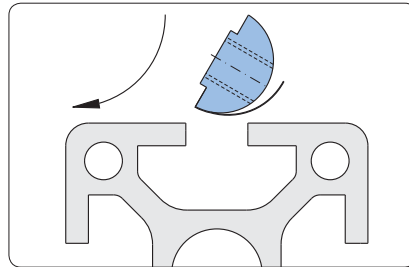
T-Nuts for subsequent insertion, with spring



Fixing with leaf spring

Application

Fastening element for screw-type connections



Insert front-sided and rotate

Technical data

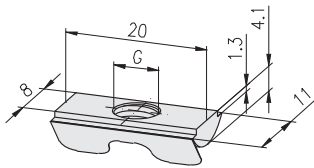
Design steel:

- material: steel
- surface: galvanised

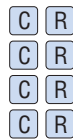
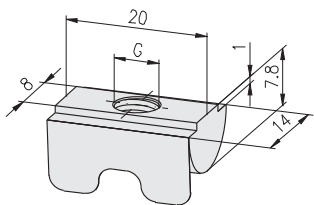
Design stainless:

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

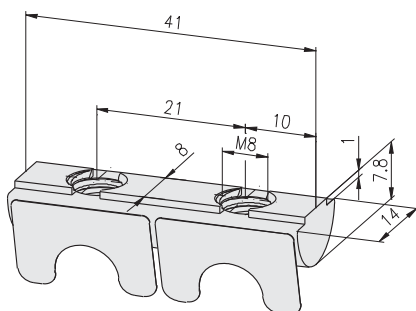
max. moment of torque: $M_{A, max}$



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

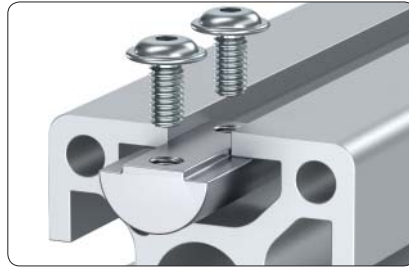
- Fastening element for
- screw-type connections
 - hinges, heavy, type 20, 21, 31

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



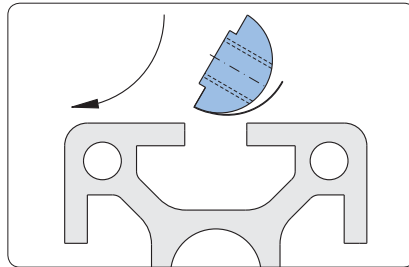
Fixing with leaf spring

Application

Fastening element for screw-type connections

Technical data

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



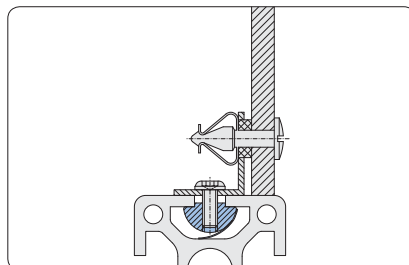
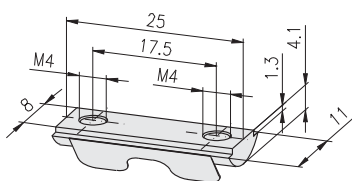
Assembly

Insert front-sided and rotate

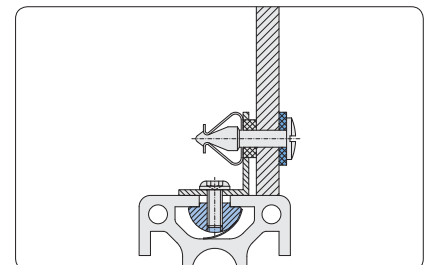


Application

Fastening element for mounting angle, quick lock \rightarrow 265

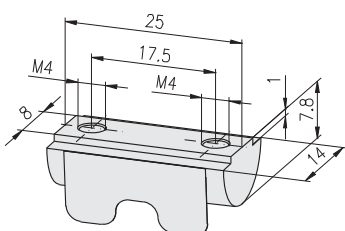


Fastening without washer



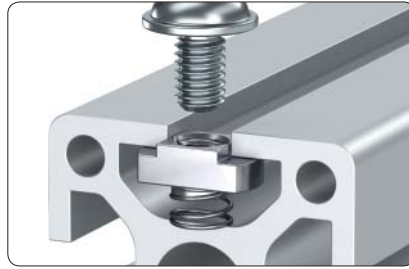
Fastening with washer

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

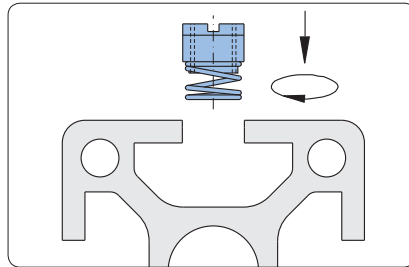


Fixing with compressing spring

Application

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

- enclosures
- electric switches

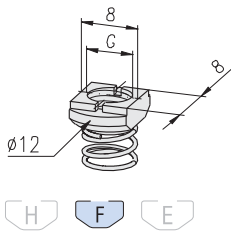


Assembly

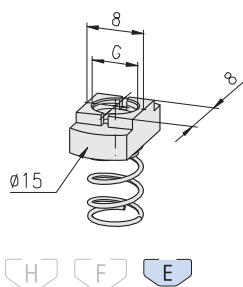
Insert front-sided and turn 90°

Technical data

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

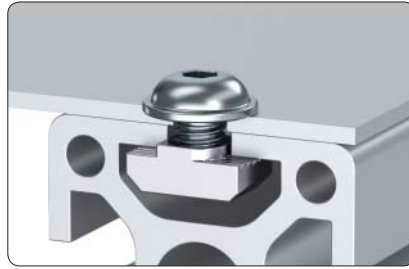


Description	G	$M_{A, max}$	Weight	Article-No.
Spring-nut F	M3	1.3 Nm	1.6 g	1.33.FM3
Spring-nut F	M4	3.0 Nm	1.5 g	1.33.FM4
Spring-nut F	M5	5.0 Nm	1.3 g	1.33.FM5
Spring-nut F	M6	8.0 Nm	1.1 g	1.33.FM6



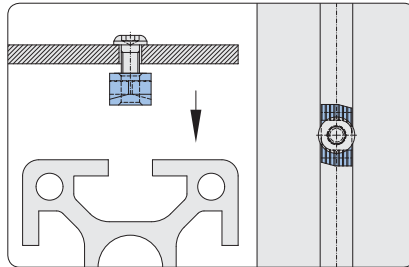
Description	G	$M_{A, max}$	Weight	Article-No.
Spring-nut E	M3	1.3 Nm	3.9 g	1.33.EM3
Spring-nut E	M4	3.0 Nm	3.7 g	1.33.EM4
Spring-nut E	M5	5.0 Nm	3.4 g	1.33.EM5
Spring-nut E	M6	10.0 Nm	3.0 g	1.33.EM6

T-slot nuts



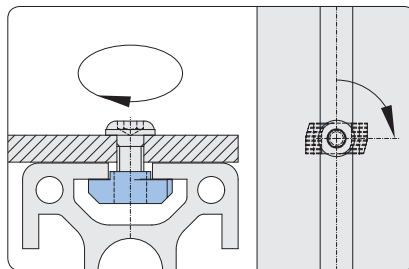
Application

Fastening element for screw-type connections



Assembly

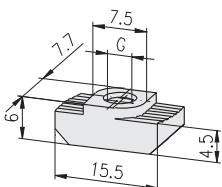
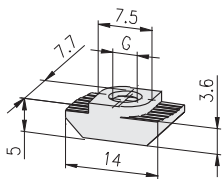
Mount the T-slot nut onto the screw and insert into the slot



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

Technical data

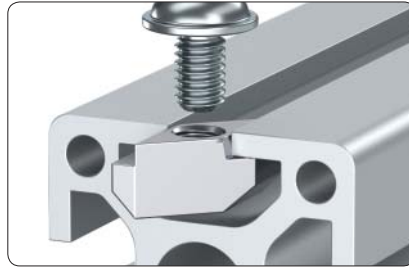
material: GD-Zn
 surface: galvanised
 max. moment of torque: $M_{A, max}$



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

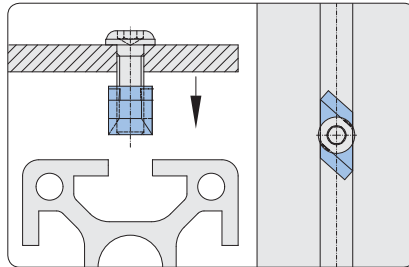
Description	G	$M_{A, max}$	Weight	Article-No.
T-slot nut E	M4	3.0 Nm	3.6 g	1.34.10EM4
T-slot nut E	M5	5.0 Nm	3.2 g	1.34.10EM5
T-slot nut E	M6	10.0 Nm	3.0 g	1.34.10EM6

Rhomboid T-slot nuts with self-locking



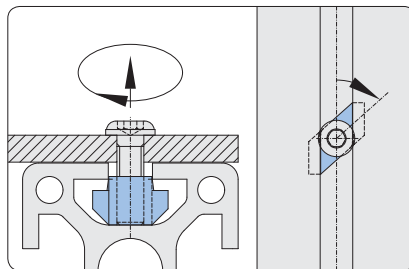
Application

For pre-assembly of threads in the profile slot

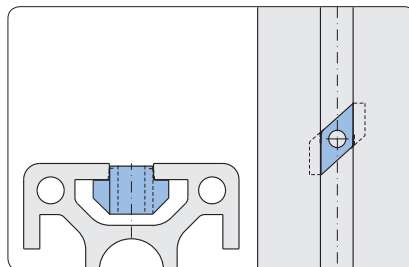


Assembly

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



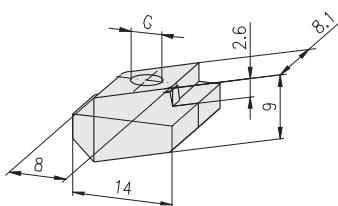
By tightening the screw, the rhomboid T-slot nut is turned 50° and jammed inside the slot with its conical flanks



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

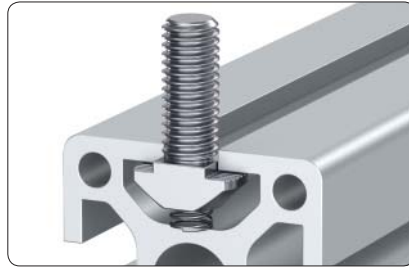
Technical data

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



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

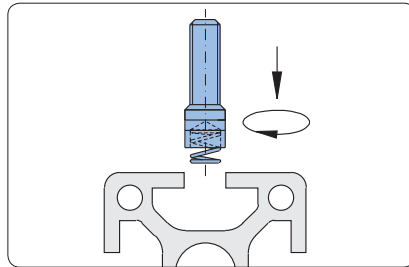
**T-Bolts
front-sided insertion**



Fixing with compressing spring

Application

Fastening element for screw-type connections

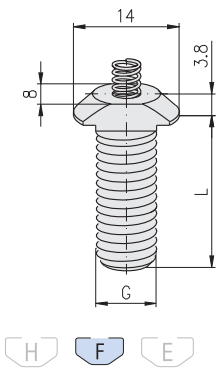


Assembly

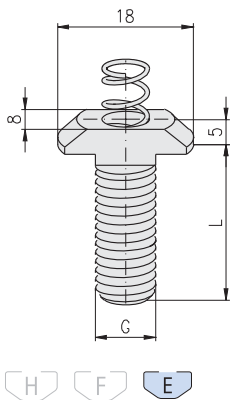
Insert front-sided and turn 90°

Technical data

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

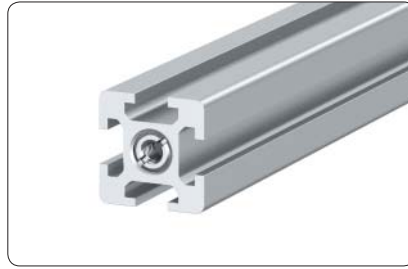


Description	G×L	$M_{A, \max}$	Weight	Article-No.
T-Bolt F	M6×20	6 Nm	6.0 g	1.34.FM62
T-Bolt F	M6×30	6 Nm	7.0 g	1.34.FM63
T-Bolt F	M8×20	15 Nm	8.0 g	1.34.FM82
T-Bolt F	M8×30	15 Nm	11.2 g	1.34.FM83



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

Threaded inserts
for core hole Ø6

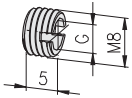


Application

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

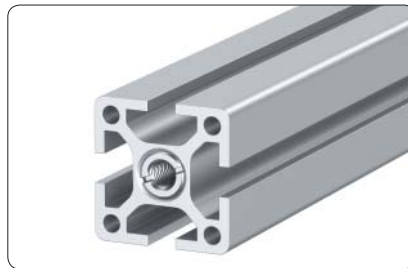
Technical data

material: steel
surface: galvanised



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

for core hole Ø12

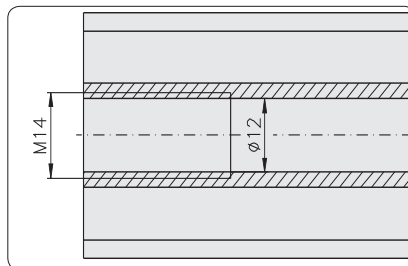


Application

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

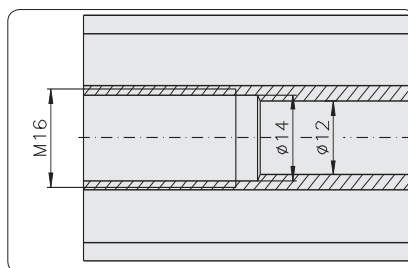
Technical data

material: steel
surface: galvanised



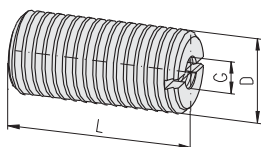
Assembly preparation for threaded insert M14/Mxx

- Tap M14 thread in core hole Ø12 mm



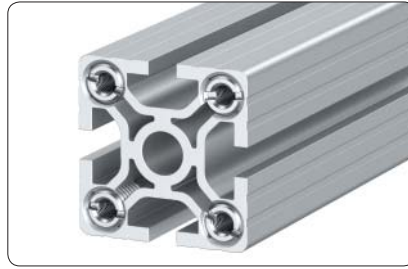
1) Assembly preparation for threaded insert M16/M12

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



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

**Threaded inserts
for outer chambers PG 50, heavy**

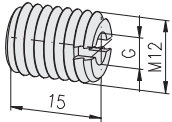


Application

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

Technical data

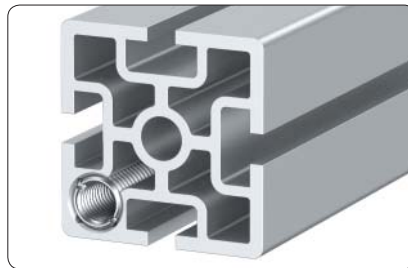
material: steel
surface: galvanised



16 20 30 40 45 50 60

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

for outer chambers PG 60

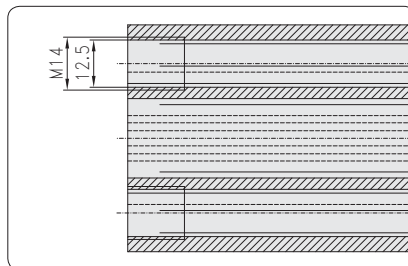


Application

For mounting on front end via the outer chambers PG 60

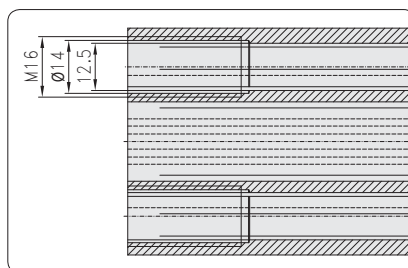
Technical data

material: steel
surface: galvanised



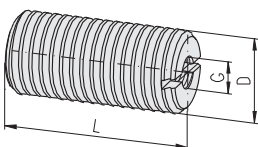
Assembly preparation for threaded insert M14/Mxx

- Tap M14 thread in outer chamber



1) Assembly preparation for threaded insert M16/M12

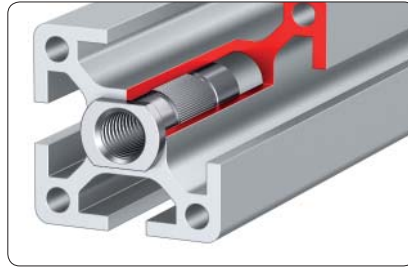
- Drill Ø12 mm outer chamber to 14 mm
- Tap M16 thread in borehole Ø14 mm



16 20 30 40 45 50 60

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

Press-fit threaded inserts
for core hole Ø12

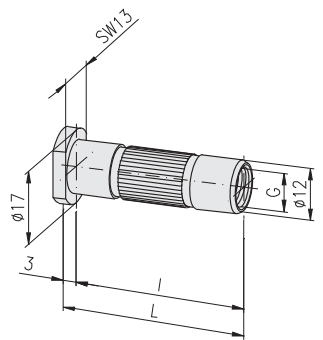


Application

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

Technical data

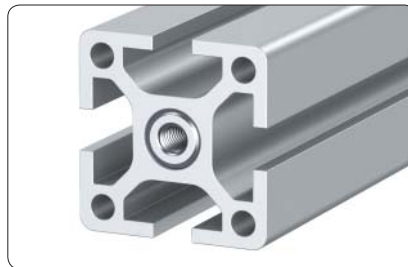
material: steel
surface: galvanised



- 16 20 30 40 45 50 60

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

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

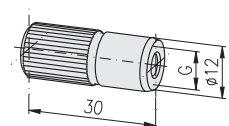


Application

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

Technical data

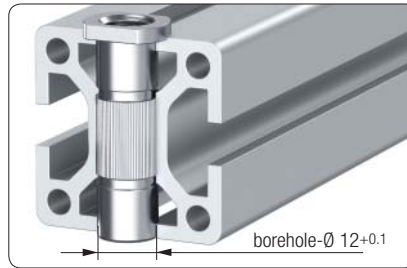
material: steel
surface: galvanised



- 16 20 30 40 45 50 60

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

**Press-fit threaded inserts
for screw connections across the
profile**

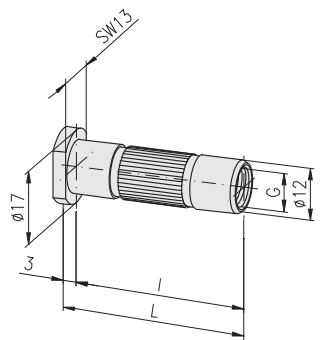


Application

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

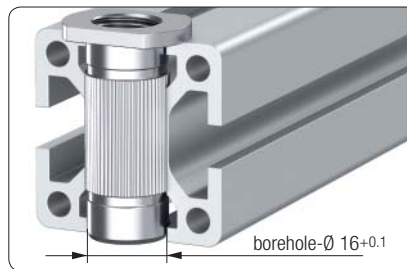
Technical data

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

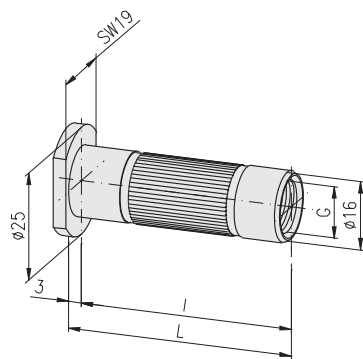


Application

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

Technical data

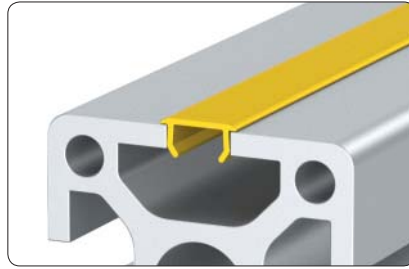
material: steel
surface: galvanised



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

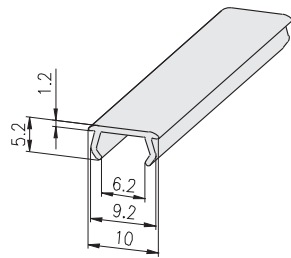
Description	G	L	I	Weight	Article-No.
Press-fit threaded insert	Ø16/M14	32.5	29.5	25 g	1.35.614295
Press-fit threaded insert	Ø16/M14	42.5	39.5	30 g	1.35.614395
Press-fit threaded insert	Ø16/M14	47.5	44.5	32 g	1.35.614445
Press-fit threaded insert	Ø16/M14	52.5	49.5	35 g	1.35.614495

Cover profiles



Application

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



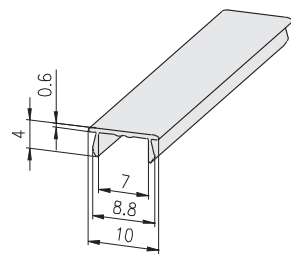
Technical data

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

Colours



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



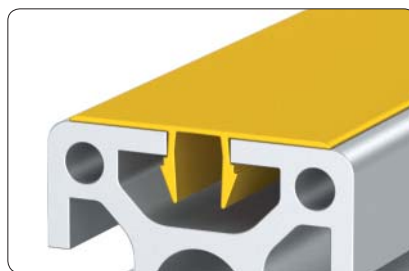
Technical data

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

Colour

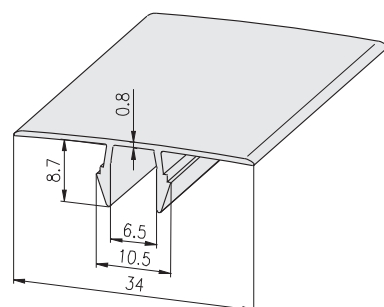


Description	Weight	Article-No.
Cover profile 10, Alu, F/E	67.5 g/bar	1.41.121



Application

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



Technical data

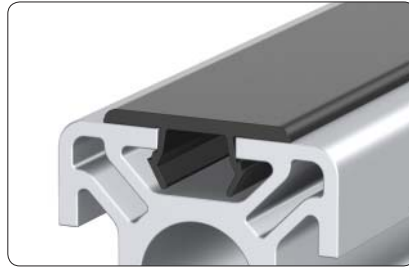
- bar length: 2.5 m
- material: PVC rigid
- oil and water resistant

Colours



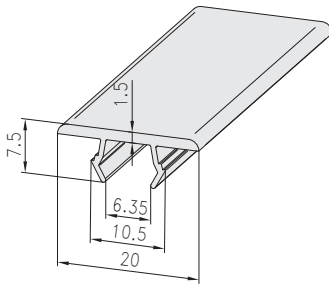
Description	Colour	similar to RAL	Weight	Article-No.
Cover profile 34, PVC, E,	grey	7035	170 g/bar	1.41.15E34.1
Cover profile 34, PVC, E,	black	9011	170 g/bar	1.41.15E34.2
Cover profile 34, PVC, E,	yellow	1003	204 g/bar	1.41.15E34.3

Sliding und cover profiles PVC



Application

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



Technical data

bar length: 6.0 m
material: HD PE Shore 100

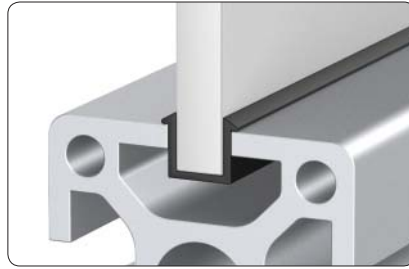
- oil and water resistant
- anti-electrostatic
- lead- and cadmium free

Colours



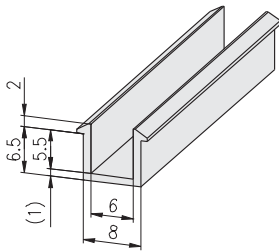
Description	Colour	similar to RAL	Weight	Article-No.
Sliding and cover profile 20 PE, F/E3	black	9011	249 g/bar	1.41.16F/E320.2
Sliding and cover profile 20 PE, F/E3	grey/white	9002	249 g/bar	1.41.16F/E320.4

Reducing profiles PVC



Application

To reduce the slot size from 8 mm to 6 mm



Technical data

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

Colours

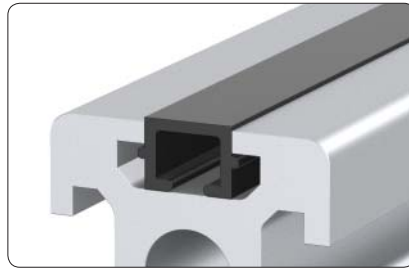


Description	Colour	similar to RAL	Weight	Article-No.
Reducing profile PVC, F/E, 8/6	grey	7035	85 g/bar	1.41.21.1
Reducing profile PVC, F/E, 8/6	black	9011	85 g/bar	1.41.21.2

Combination profiles PVC



Use as reduction profile



Use as slot-cover profile

Application

Combination profiles for use as reduction or cover profiles

Technical data

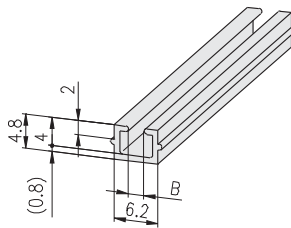
bar length: 2.5 m
 material: PVC rigid
 • oil and water resistant

Colours



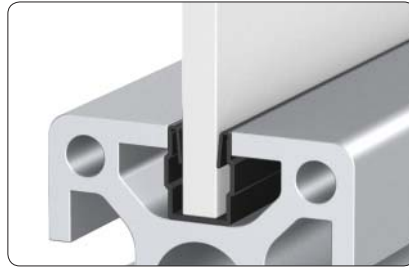
grey

black



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

Combination profiles



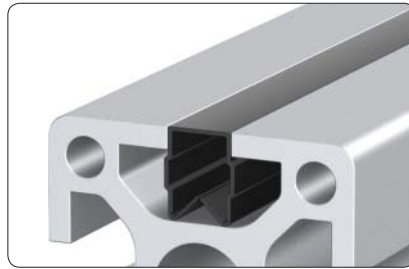
Use as reduction profile

Application

Combination profiles for use as reduction or cover profiles

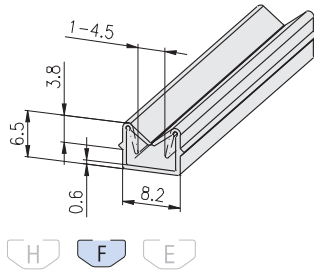
Technical data

- bar length: 2.5 m
- material: PP
- oil and water resistant

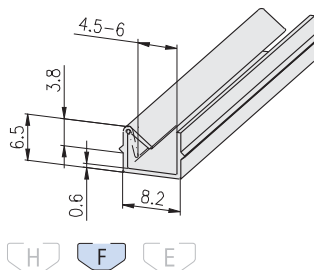


Use as slot-cover profile

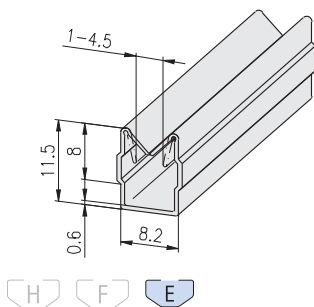
Colours



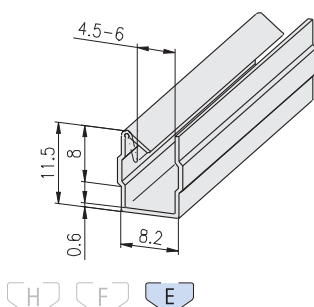
Description	D	Colour	similar to RAL	Weight	Article-No.
Combination profile F	1 - 4.5	grey	7035	31 g/bar	1.41.F14.1
Combination profile F	1 - 4.5	black	9011	31 g/bar	1.41.F14.2



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



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

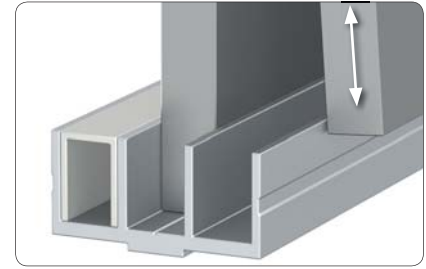


Description	D	Colour	similar to RAL	Weight	Article-No.
Combination profile E	4.5 - 6	grey	7035	42 g/bar	1.41.E346.1
Combination profile E	4.5 - 6	black	9011	42 g/bar	1.41.E346.2

Sliding doors
construction types



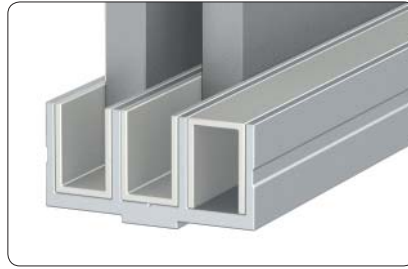
Fixed



Removable

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

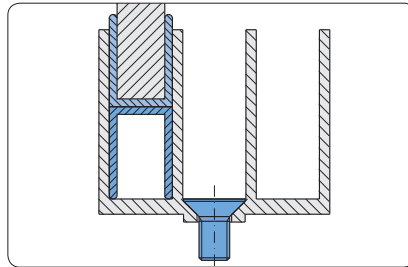
Combination profiles PVC



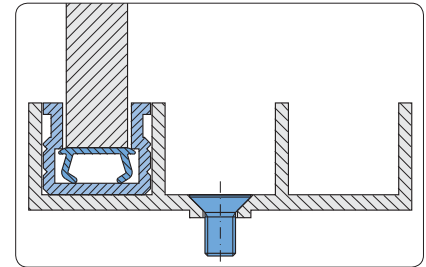
Application

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

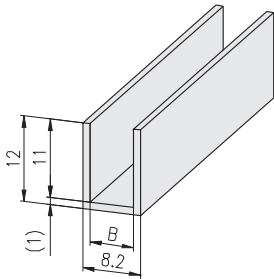


Inserted plate for sliding profile 50×14:
for sliding profile 1.41.11.1, 1.41.11.2

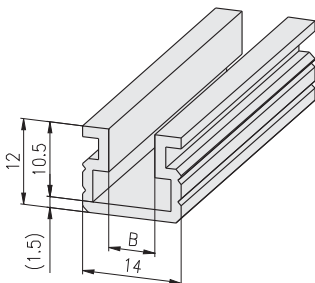
Technical data

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

Colour

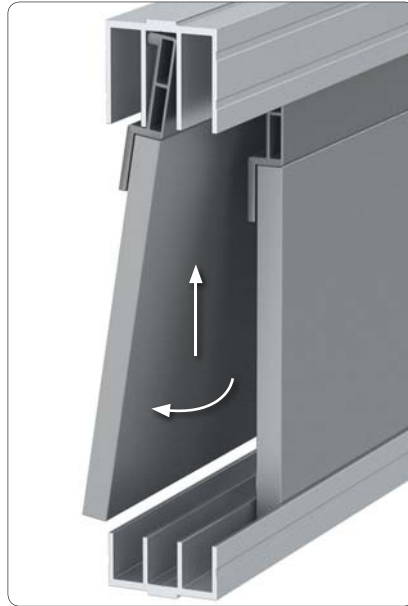


Description	B	Weight	Article-No.
Combination profile PVC for 30×14	6.2	115 g/bar	1.41.330



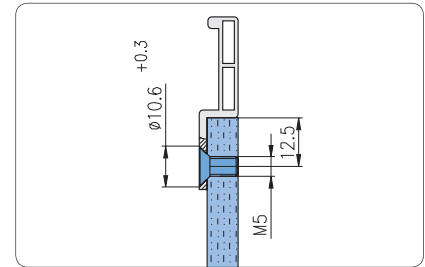
Description	B	Weight	Article-No.
Combination profile PVC for 50×14	6.5	222.5 g/bar	1.41.350
Combination profile PVC for 50×14	9.0	205.0 g/bar	1.41.351

Guide profile PVC

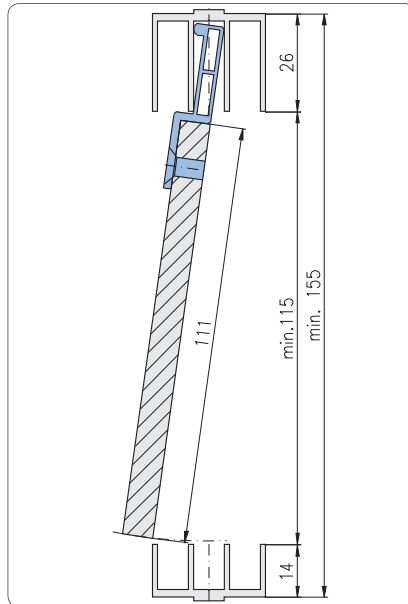


Application

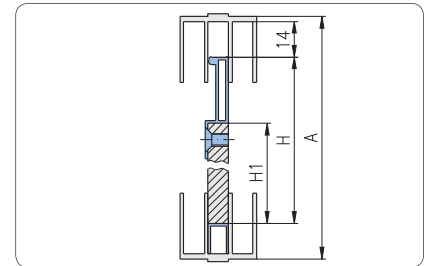
- The guide profile is necessary
- for demountable sliding doors
 - for the use of panel elements of each plate thickness from 1 mm to 14 mm



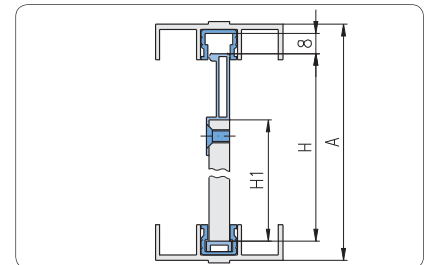
Drill dimensions



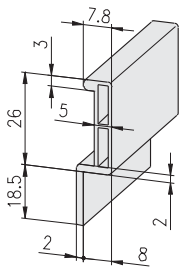
Minimum height for lifting of the panel elements



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



Description

Guide profile PVC for sliding profile

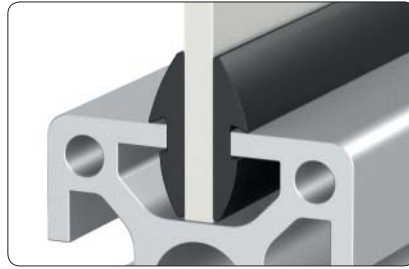
Weight

375 g/bar

Article-No.

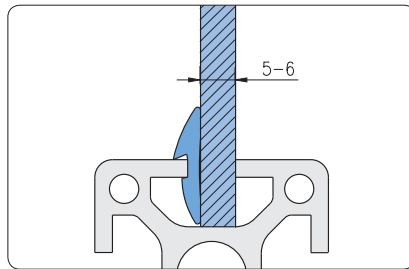
1.41.360

Framing profiles
one piece

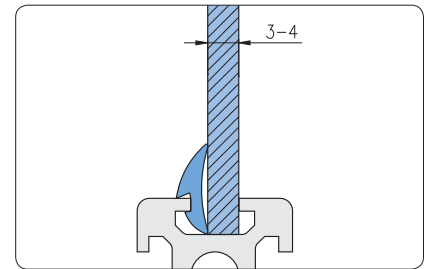


Application

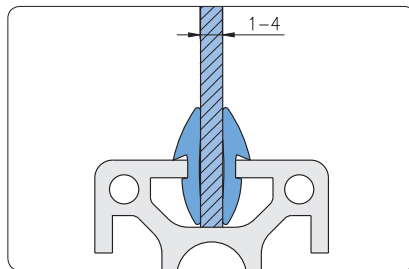
The one piece framing profile for mounting panels of different thickness
The elastic lips provide a good seal



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



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



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

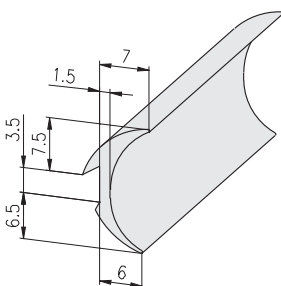
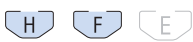
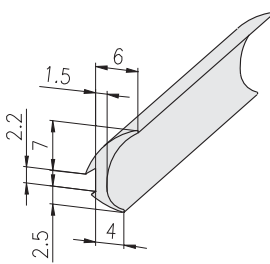
Colours

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

Technical data

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

Colours



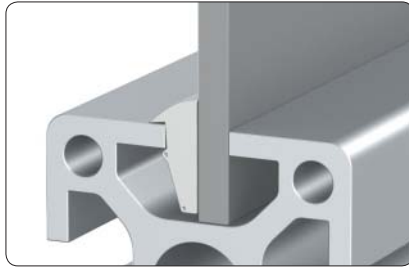
Description	Colour	similar to RAL	Weight	Article-No.
Framing profile one piece F	grey	7035	2,200 g/ring	1.41.5F0.1.60
			37 g/m	1.41.5F0.1-A00A00/...
Framing profile one piece F	black	9011	2,200 g/ring	1.41.5F0.2.60
			37 g/m	1.41.5F0.2-A00A00/...

/... = length in mm

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

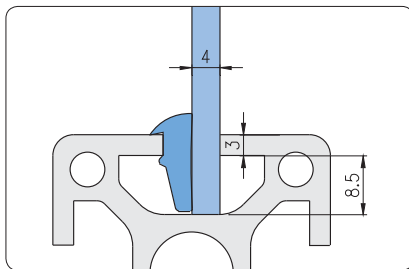
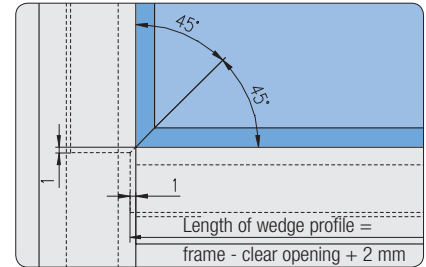
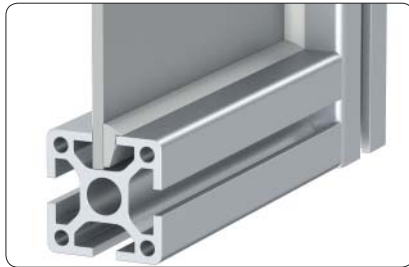
/... = length in mm

Wedge profiles



Application

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

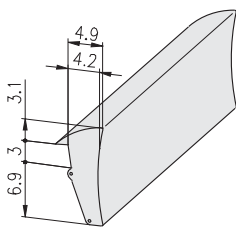


E3-slot

Technical data

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

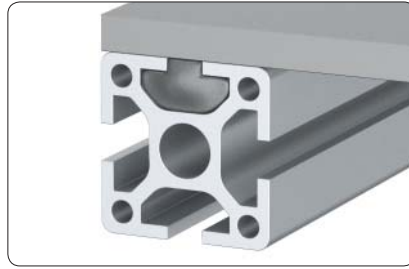
Colour



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

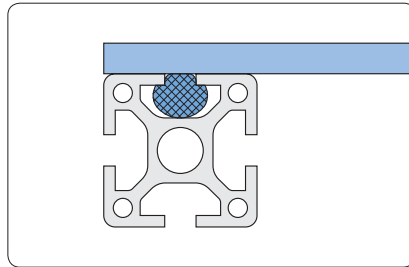
/... = length in mm

Sponge rubber round cords

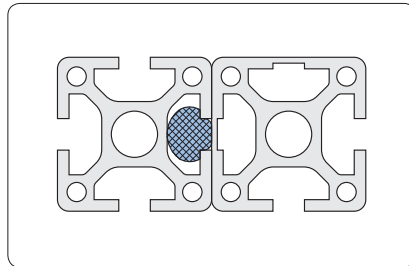


Application

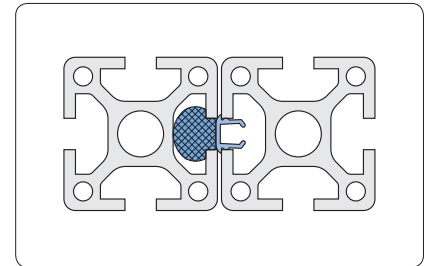
Sponge rubber round cords for sealing



Profile with panel element



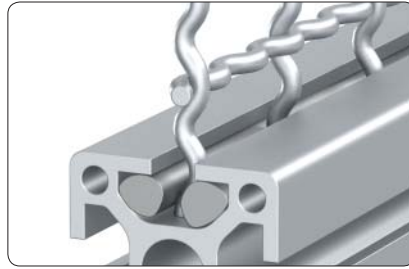
1 profile with slot
1 profile closed



2 profiles with slots
1 profile with slot-cover profile

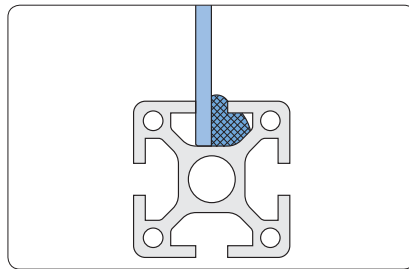
Sponge rubber round cord diameter-determination	
Profile slot	Sponge rubber diameter
H-slot	8 mm
F-slot	12 mm
E-slot	18 mm

Sponge rubber round cords

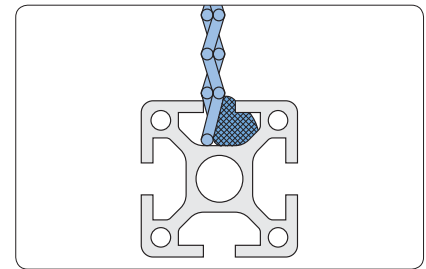


Application

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



Enclosures with panel materials



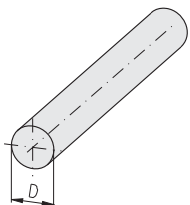
Enclosures with wire screens

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

Technical data

length of ring: 100 m
material: EPDM

Colour



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

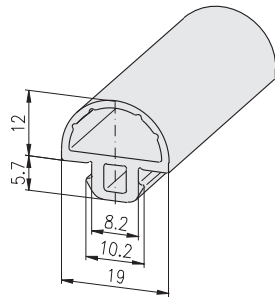
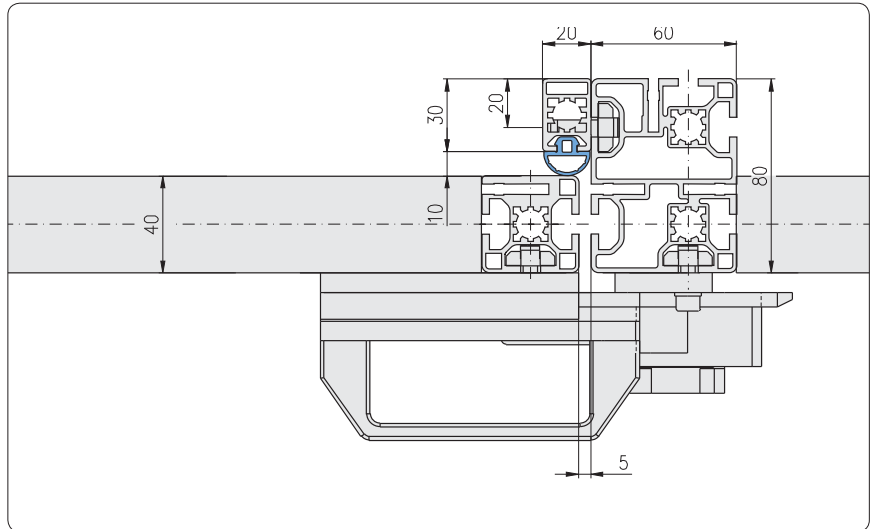
/... = length in mm

Sealing profile



Application

For sealing of doors and windows and for door stops



Technical data

length of ring: 40 m

material: EPDM, 60° ± 5° Shore A

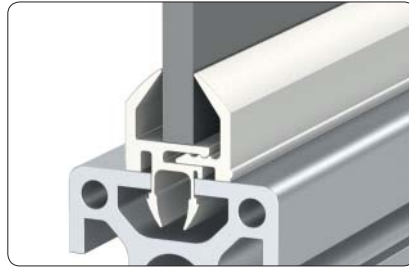
- free of silicon
- compatible with acrylic glass

Colour



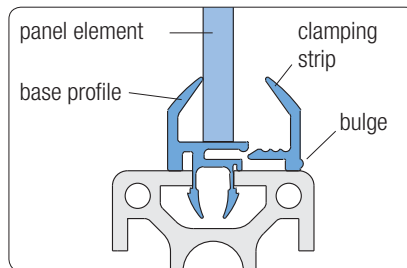
Description	Colour		Weight	Article-No.
Sealing profile F	black	ring	5,120 g/ring	1.41.6510F.2.40
			128 g/m	1.41.6510F.2-A00A00/...
				/... = length in mm

Framing profiles



Application

The framing profile allows the installation of panels in closed frames

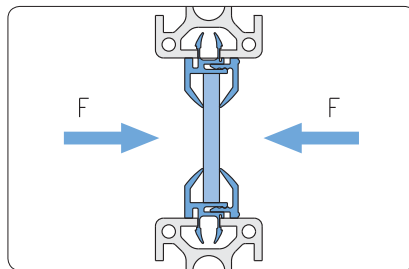


Assembly

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

Comments

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



Maximum loading of framing profile:

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

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

Technical data

bar length: 6 m

material:

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

temperature

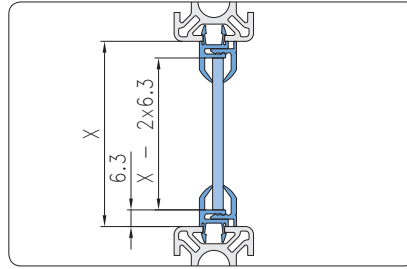
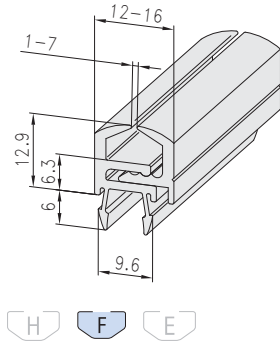
range: -20°C to +80°C

Colours



grey

black

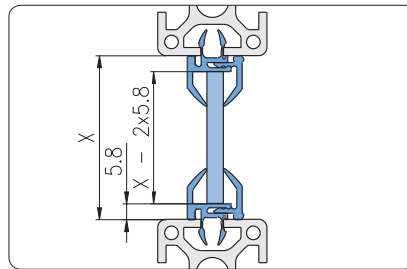
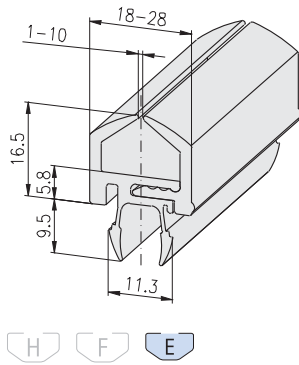


Comments

Suitable for panel elements from 1 to 7 mm thickness

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

/... = length in mm



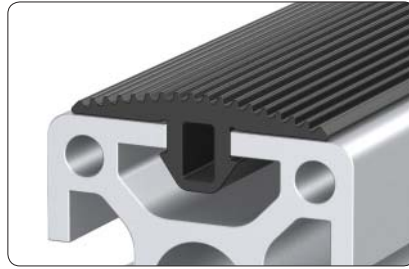
Comments

Suitable for panel elements from 1 to 10 mm thickness

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

/... = length in mm

Rubber cover-profiles



Application

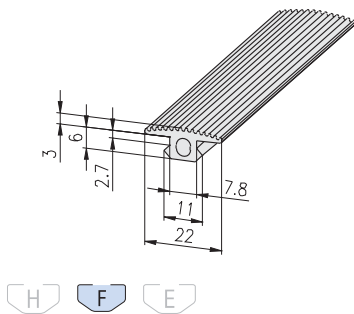
Rubber cover-profiles for profile protection
Suitable for:

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

Technical data

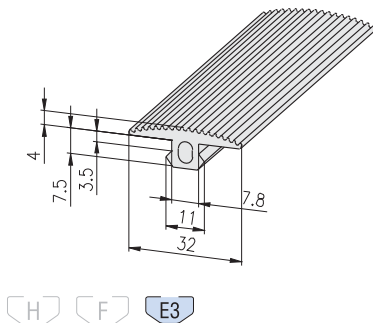
length of ring: 20 m
material: NBR, hardness 80 Shore A
oil and water resistant

Colour



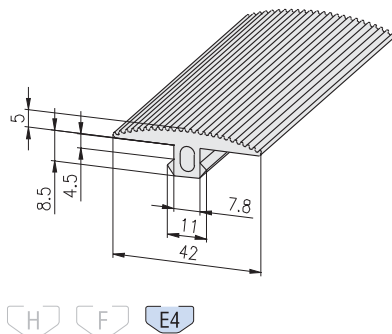
Description	Colour	Weight	Article-No.
Rubber cover-profile F	black	2,400 g/ring	1.41.8F30.20
		120 g/m	1.41.8F30-A00A00/...

/... = length in mm



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

/... = length in mm



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

/... = length in mm

Cover caps



Application

Cover caps prevent dirt from entering and avoid lacerations.

Comments

Before mounting debur core hole

Technical data

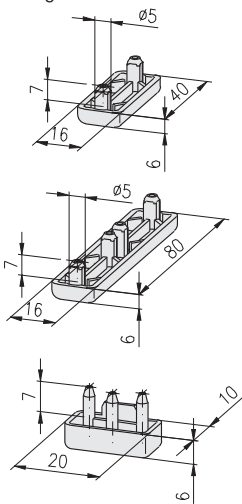
material: PA-GF
temperature range: -20°C to +85°C

Colours

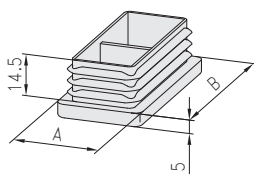


for profiles without core hole

Rectangle



for tube profile



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

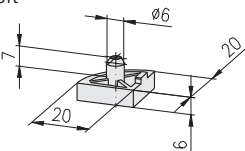
Description	Colour	Weight	Article-No.
Cover cap 16×80, E	grey	7.1 g	1.42.09016080.1
Cover cap 16×80, E only for E-Slot	black	7.1 g	1.42.09016080.2

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

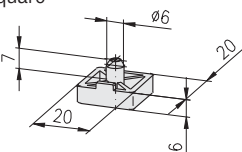
Description	A×B	Colour	Weight	Article-No.
Cover cap	30×60 for tube profile	black	10.2 g	1.42.217.030060.2
Cover cap	30×100 for tube profile	black	17.7 g	1.42.217.030100.2

for profiles with core hole-Ø6

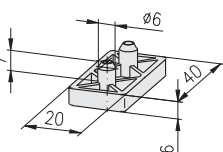
Soft



Square



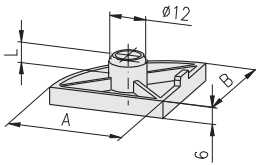
Rectangle



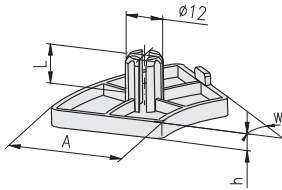
Description	Colour	Weight	Article-No.
Cover cap 20×20	grey	3 g	1.42.10200.1
Cover cap 20×20	black	3 g	1.42.10200.2

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

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

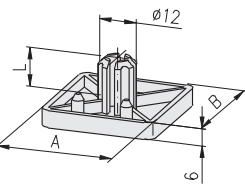
for profiles with core hole-Ø12
Soft


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

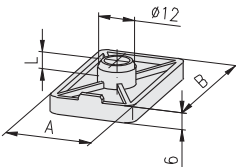
Round


! note "h" !

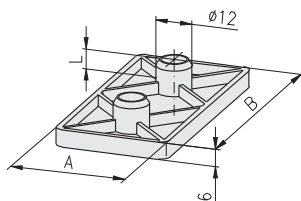
Description	A	W	h	L	Colour	Weight	Article-No.
Cover cap	40, round	30°	4	14	black	6 g	1.42.2040R30.2
Cover cap	40, round	45°	6	14	black	8 g	1.42.2040R45.2
Cover cap	40, round	60°	6	14	black	12 g	1.42.2040R60.2
Cover cap	40, round	90°	6	14	black	16 g	1.42.2040R90.2

Square


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

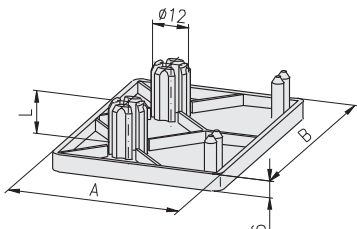
Rectangle


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

Rectangle


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

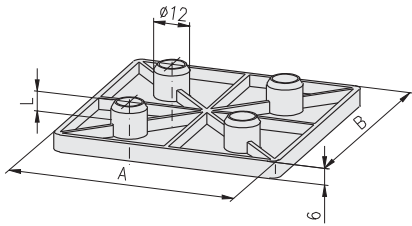
¹⁾ only for E-Slot



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

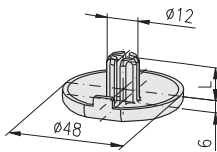
for profiles with core hole-Ø12

Square



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

Ø48 for hand rail profile



Technical data

material: PA-GF

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

Cover plugs

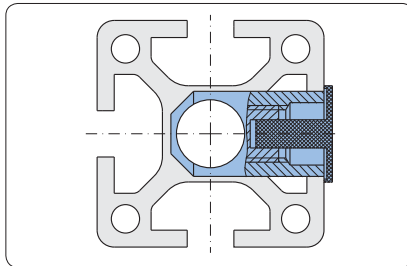


Application

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



Cover plug in combination with cover profile



Technical data

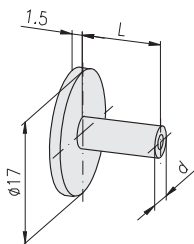
material: PE

Colours



grey

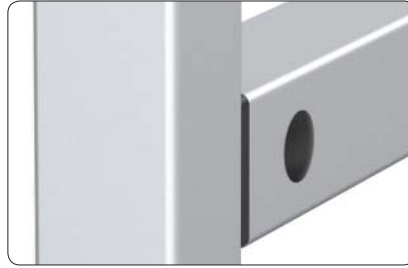
black



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

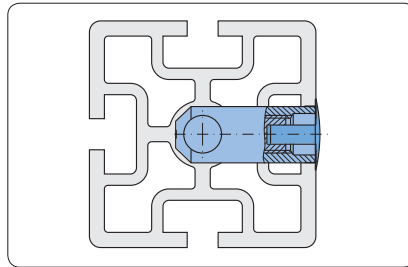
Cover plugs domed

C



Application

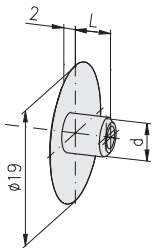
The cover plug allows the closing of the connector cross bushing bore



Technical data

material: PE

Colours



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

Cover caps for tubes



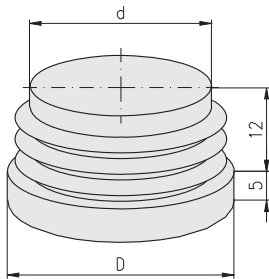
Application

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

Technical data

material: PE

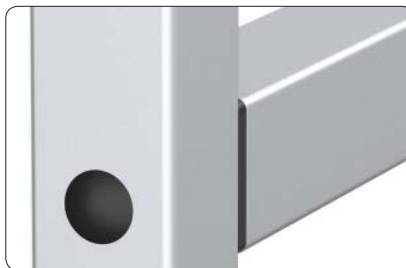
Colours



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

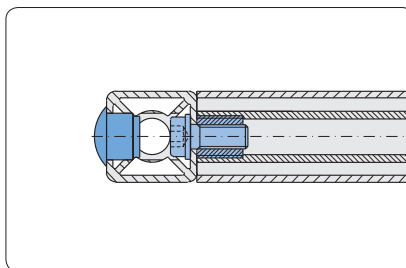
Cover caps for screw bores

C

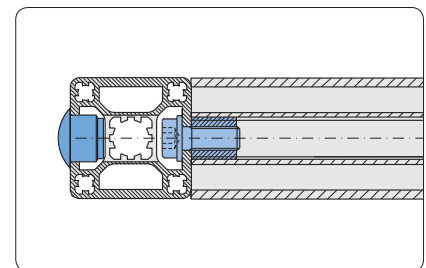


Application

The cover plug allows the closing of the screw bore



Profile 30

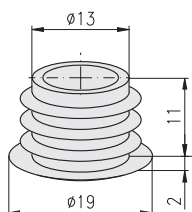


Profile 40

Technical data

material: PE

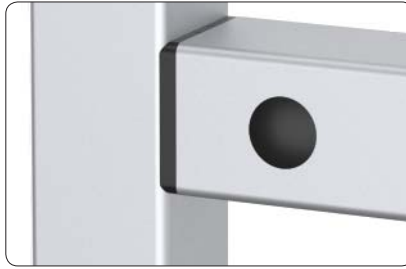
Colours



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

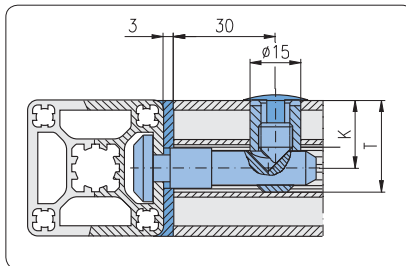
Radius covers

C

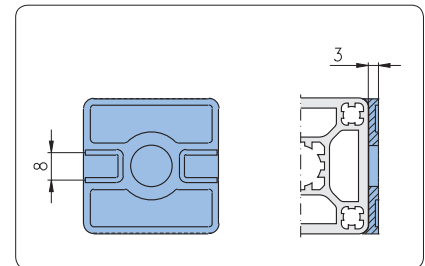


Application

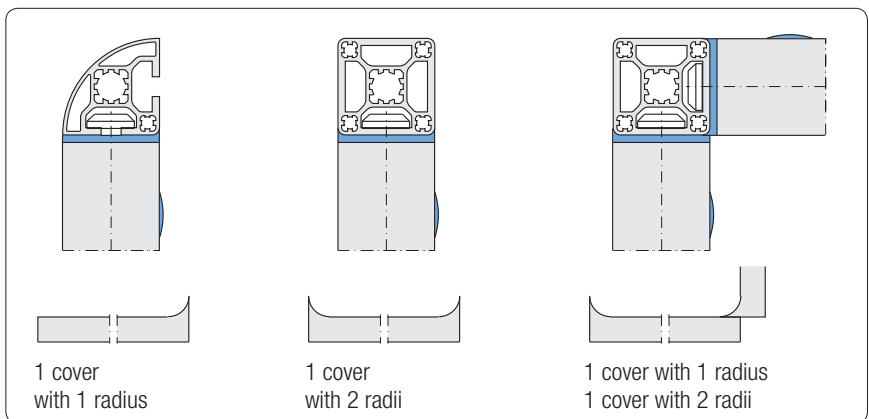
For covering the exterior profile radius



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



For mounting of panels the slots can be broken out



Mounting-Variations

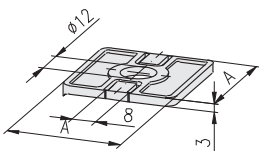
Technical data

material: PA-GF

Colours

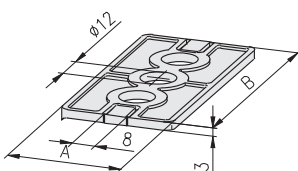


Square
with one radius



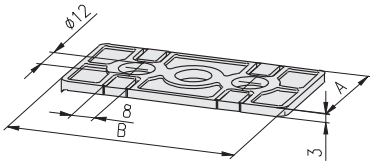
Description	A	Colour	Weight	Article-No.
Radius cover 1R	30	grey	3.1 g	1.43.10030030.1
Radius cover 1R	30	black	3.1 g	1.43.10030030.2
Radius cover 1R	40	grey	6.1 g	1.43.10040040.1
Radius cover 1R	40	black	6.1 g	1.43.10040040.2
Radius cover 1R	45	grey	5.4 g	1.43.10045045.1
Radius cover 1R	45	black	5.4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

Rectangle
with one radius



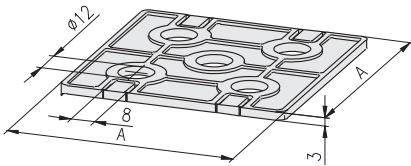
Description	A	B	Colour	Weight	Article-No.
Radius cover 1R	30	60	grey	5.8 g	1.43.10030060.1
Radius cover 1R	30	60	black	5.8 g	1.43.10030060.2
Radius cover 1R	40	80	grey	11.8 g	1.43.10040080.1
Radius cover 1R	40	80	black	11.8 g	1.43.10040080.2
Radius cover 1R	45	90	grey	10.7 g	1.43.10045090.1
Radius cover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

Rectangle 90°
with one radius



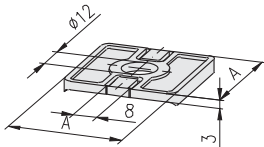
Description	A	B	Colour	Weight	Article-No.
Radius cover 1R	30	60	grey	5.8 g	1.43.11030060.1
Radius cover 1R	30	60	black	5.8 g	1.43.11030060.2
Radius cover 1R	40	80	grey	11.8 g	1.43.11040080.1
Radius cover 1R	40	80	black	11.8 g	1.43.11040080.2
Radius cover 1R	45	90	grey	10.8 g	1.43.11045090.1
Radius cover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

Square
with one radius



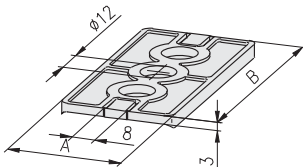
Description	A	Colour	Weight	Article-No.
Radius cover 1R	60	grey	12.0 g	1.43.10060060.1
Radius cover 1R	60	black	12.0 g	1.43.10060060.2
Radius cover 1R	80	grey	24.0 g	1.43.10080080.1
Radius cover 1R	80	black	24.0 g	1.43.10080080.2

Square
with two radii



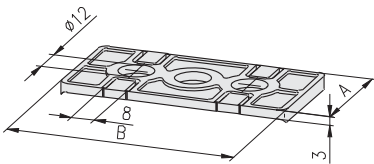
Description	A	Colour	Weight	Article-No.
Radius cover 2R	30	grey	3.2 g	1.43.20030030.1
Radius cover 2R	30	black	3.2 g	1.43.20030030.2
Radius cover 2R	40	grey	6.3 g	1.43.20040040.1
Radius cover 2R	40	black	6.3 g	1.43.20040040.2
Radius cover 2R	45	grey	5.6 g	1.43.20045045.1
Radius cover 2R	45	black	5.6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

Rectangle
with two radii



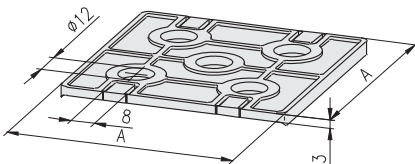
Description	A	B	Colour	Weight	Article-No.
Radius cover 2R	30	60	grey	6.0 g	1.43.20030060.1
Radius cover 2R	30	60	black	6.0 g	1.43.20030060.2
Radius cover 2R	40	80	grey	12.0 g	1.43.20040080.1
Radius cover 2R	40	80	black	12.0 g	1.43.20040080.2
Radius cover 2R	45	90	grey	10.9 g	1.43.20045090.1
Radius cover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



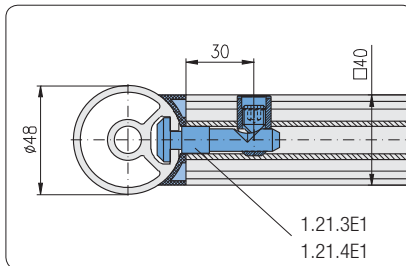
Post: Profile 40x40

Application

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

Comments

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

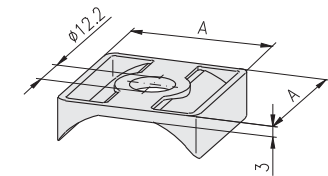


Working dimensions for hand rail straight with radius compensation

Technical data

material: PA-GF

Colours



- 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

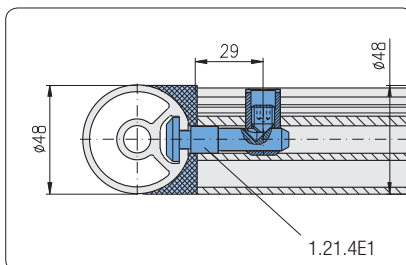


Post: Profile Ø48

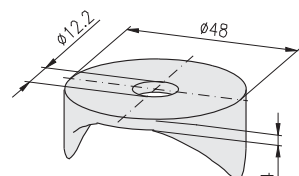
Technical data

material: PA-GF

Colours

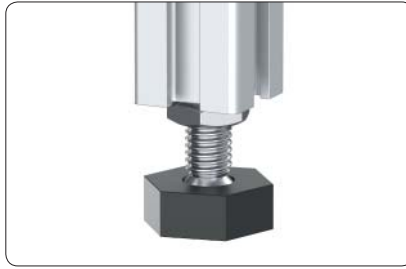


Working dimensions for hand rail straight with radius compensation



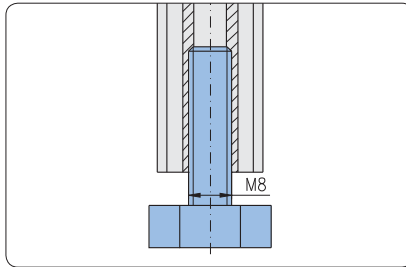
Description	Colour	Weight	Article-No.
Radius compensations Ø48	grey	4.0 g	1.43.71048000.1
Radius compensations Ø48	black	4.0 g	1.43.71048000.2

Levelling feet

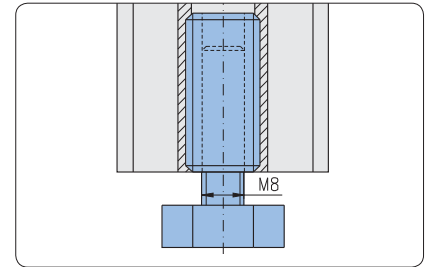


Assembly

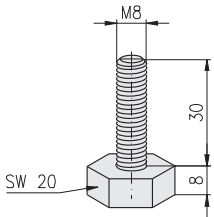
Fastening in core hole Ø6 mm with thread M8



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

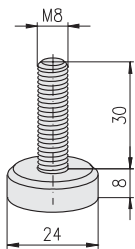
Floor levelling screw, SW20, M8x30

Weight

20 g

Article-No.

1.44.002003



Technical data

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

Description

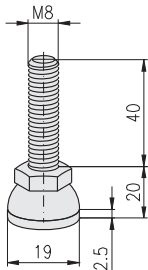
Floor levelling screw, Ø24, M8x30

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

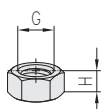
Levelling foot, PA, 20 M8x40

Weight

24 g

Article-No.

1.44.003020



Technical data

- material: steel, galvanised

Description

Nut

G
M8

H
5

Weight

5 g

Article-No.

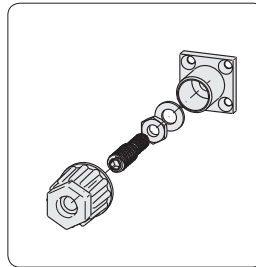
1.44.46M08

Hand adjustable feet

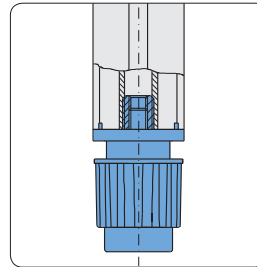


Application

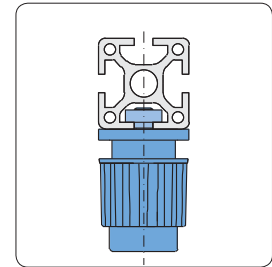
For manual levelling of benches, tables and light bases.



Height adjustable alternative by hand or with tool



Fastening in core hole

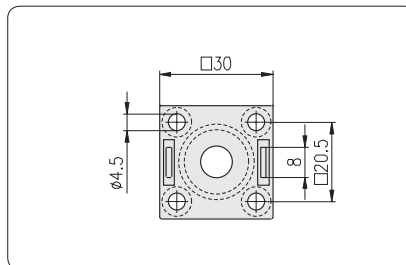
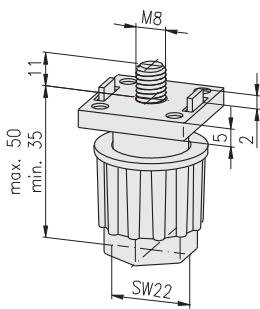


Fastening in slot

Technical data

material:

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



Description

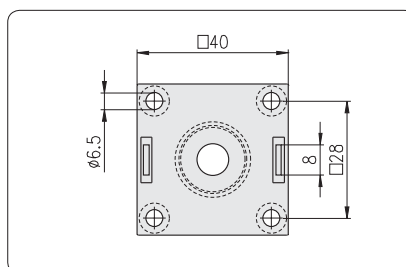
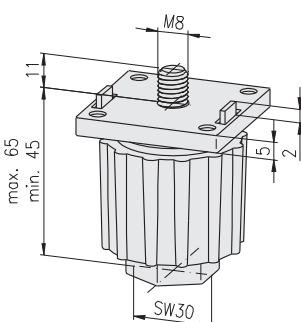
Hand adjustable foot 30

Weight

40 g

Article-No.

1.44.203008



Description

Hand adjustable foot 40

Weight

78 g

Article-No.

1.44.204008

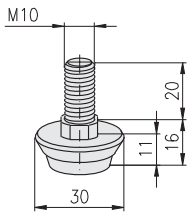
Levelling feet



Assembly

Fastening in core hole with threaded insert
M14/M10

For profiles with core hole-Ø 12 mm



Technical data

material:

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

Description

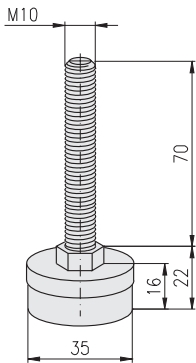
Levelling furniture foot, Ø30, M10x18

Weight

Article-No.

24 g

1.44.303002



Technical data

material:

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

Description

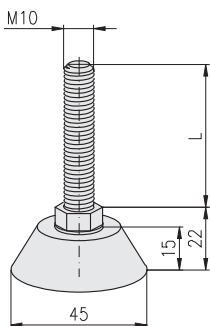
Levelling foot, Ø35, M10x70

Weight

Article-No.

70 g

1.44.303507



Technical data

material:

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

Description

L

Weight

Article-No.

Levelling foot, Ø45, M10x50

60 g

1.44.304505

Levelling foot, Ø45, M10x70

69 g

1.44.304507

Adjustable tilt-feet



Application

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

- tables
- bases
- shelves
- stands



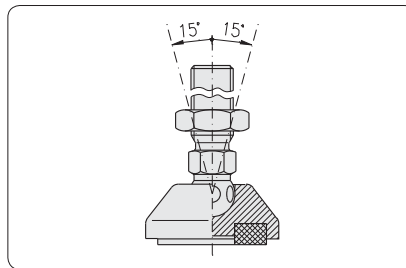
Fastening in core hole thread M14



Fastening with base plate, for profiles without centric core hole



Fastening by press-fit threaded insert across the profile

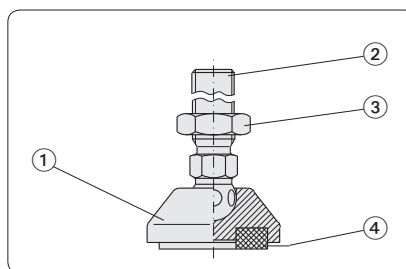


Levelling via ball and ball socket $\pm 15^\circ$

Comments

Infinitely variable adjustable tilt-feet for use either with:

- anti-slip disc
- cushion element



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

Adjustable tilt-foot plates without mounting holes



Technical data

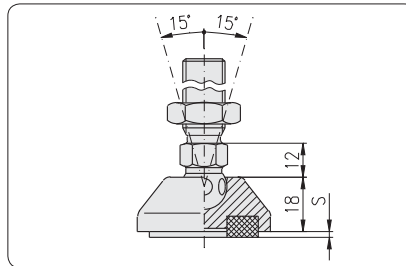
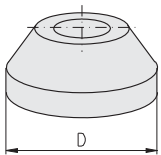
material:

PA: PA-GF, black

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

stainless: stainless steel 1.4305

F = static load max. in kN



Design without mounting holes

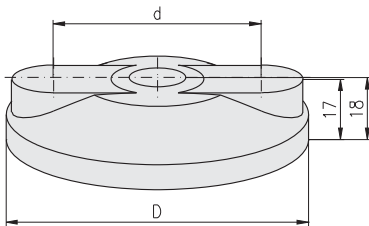
S = height of:

- anti-slip disc (S = 2 mm)

- cushion element (S = 10 mm)

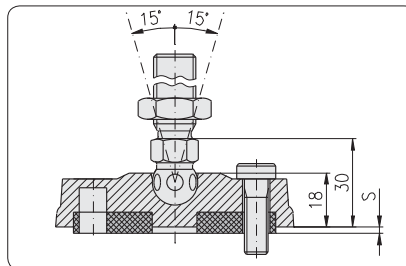
	Description	D	F	Weight	Article-No.
PA	Adjustable tilt-foot plate PA, 30	Ø29	5 kN	8 g	1.44.411030
	Adjustable tilt-foot plate PA, 40	Ø39	9 kN	13 g	1.44.411040
	Adjustable tilt-foot plate PA, 45	Ø44	9 kN	15 g	1.44.411045
	Adjustable tilt-foot plate PA, 50	Ø49	9 kN	16 g	1.44.411050
	Adjustable tilt-foot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

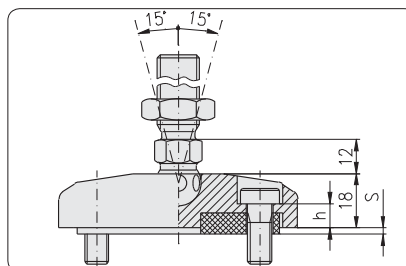
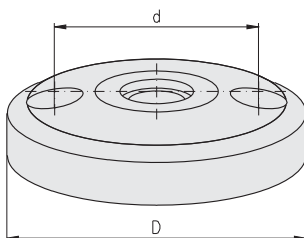
PA

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

C R

Adjustable tilt-foot plate stain., 80	Ø79	11.0	Ø54	30 kN	354 g	1.44.432080V
Adjustable tilt-foot plate stain., 100	Ø99	11.0	Ø74	40 kN	587 g	1.44.432100V
Adjustable tilt-foot plate stain., 120	Ø119	11.0	Ø94	40 kN	830 g	1.44.432120V

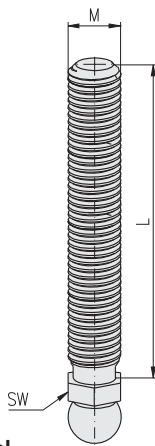
Adjustable tilt-foot spindles



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

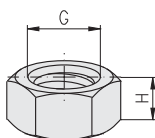
Adjustable tilt-foot nuts



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.
Nut	M8	5	5 g	1.44.46M08
Nut	M10	6	8 g	1.44.46M10
Nut	M12	7	10 g	1.44.46M12
Nut	M14	8	16 g	1.44.46M14
Nut	M16	8	17 g	1.44.46M16
Nut	M20	9	35 g	1.44.46M20
Nut, stainless	M14	8	16 g	1.44.46M14V

Adjustable tilt-foot anti-slip discs

C

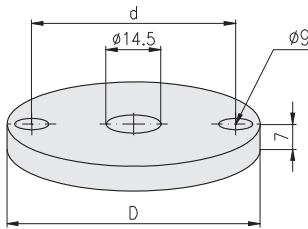
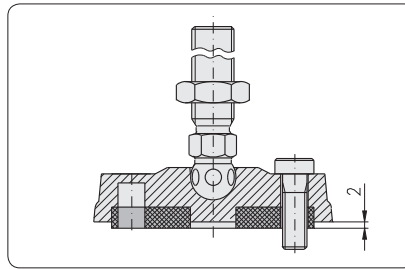


Application

Element for protection against dislocation and floor damage

Technical data

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



Description

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

Adjustable tilt-foot cushion elements

C

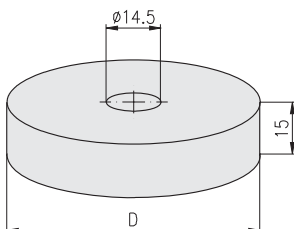
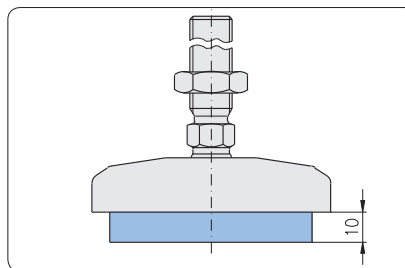


Application

Cushion elements

Technical data

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



Description

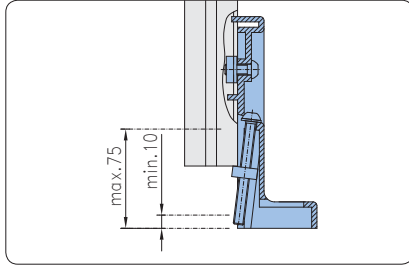
Description	D	F	Weight	Article-No.
Adj. tilt-foot cushion element for plate 40	Ø30	150 N	14 g	1.44.472040
Adj. tilt-foot cushion element for plate 45	Ø35	175 N	19 g	1.44.472045
Adj. tilt-foot cushion element for plate 50	Ø39	200 N	24 g	1.44.472050
Adj. tilt-foot cushion element for plate 60	Ø49	250 N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

Angular adjusting feet



Application

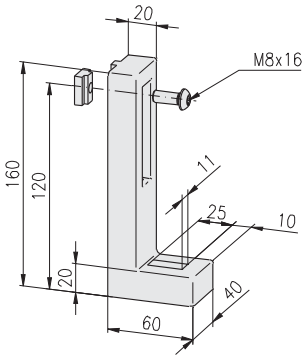
For fastening of frames to floor or wall



Technical data

material:

- base body: GD-Al, black
- nuts: steel galvanised
- screws: steel galvanised
- max. static load: 10,000 N



Delivery unit

- base body
- nut M8
- screw M8x16 - 10.9

Description

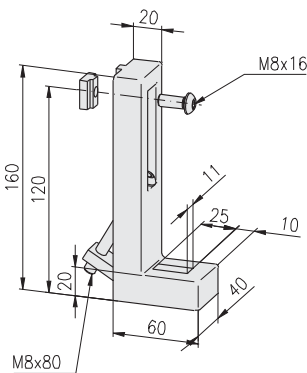
Angular adjusting foot without adjusting screw

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 40×40**

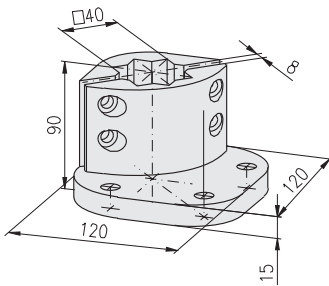
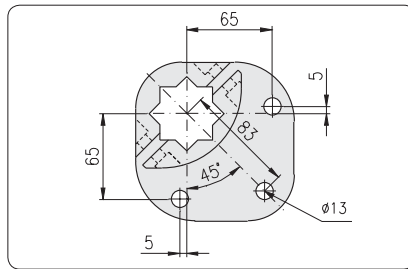


Application

Base feet for fastening profiles and frames to floor or wall

Technical data

material: GD-Zn



Description

Base foot for profile 40×40

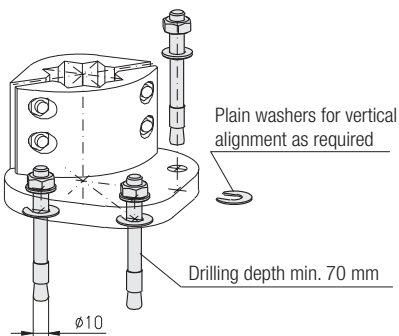
Weight

979 g

Article-No.

1.44.83040

Floor mounting set



Description

Floor mounting set 3 MKT

Weight

202.3 g

Article-No.

1.44.83BB

Single parts

Pin anchor MKT, B10/20/95

Pcs.

3

Weight

65.3 g

Article-No.

0.66.MKT.B1020/95

Plain washer 1×Ø24/11

8

0.8 g

1.44.89011324

Base feet

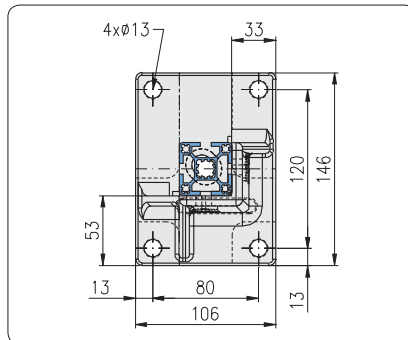
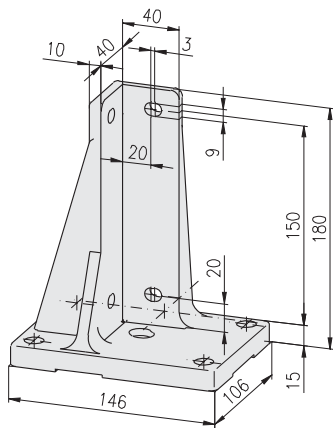


Application

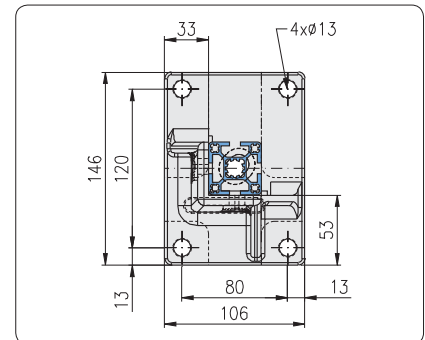
Base feet for fastening profiles and frames to floor or wall

Technical data

material: GK AlZn 10Si8Mg



40x40, type 1, left



40x40, type 1, right

Comments

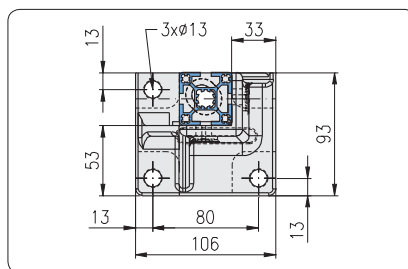
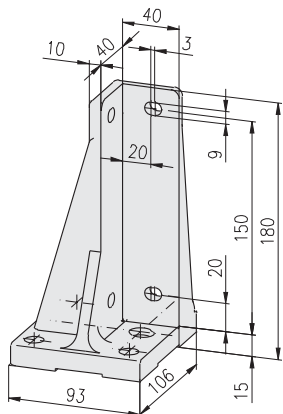
3D picture shows type 1, right
mirror-inverted: type 1, left

Mounting sets (↔ 195, 196)

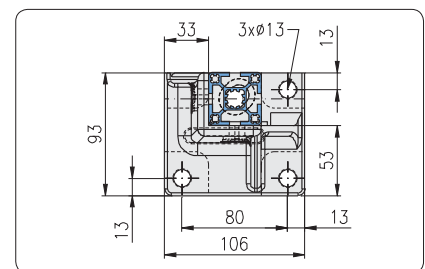
Floor mounting set 4 MKT
Profile mounting set 4 EM8

Description

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

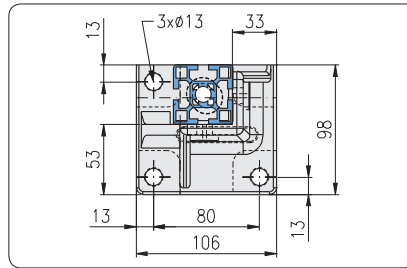
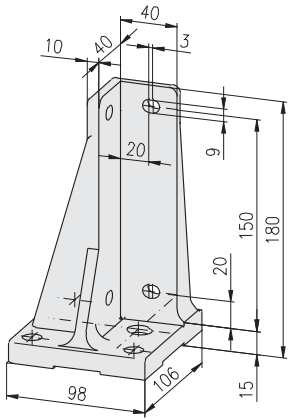
3D picture shows type 2, right
mirror-inverted: type 2, left

Mounting sets (↔ 195, 196)

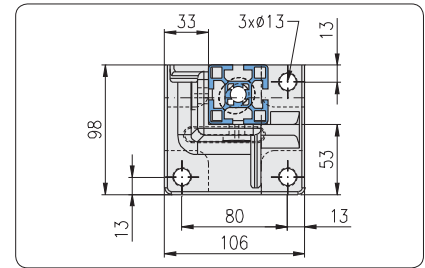
Floor mounting set 3 MKT
Profile mounting set 4 EM8

Description

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



45x45, type 2, right

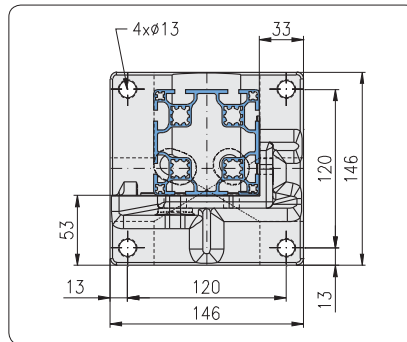
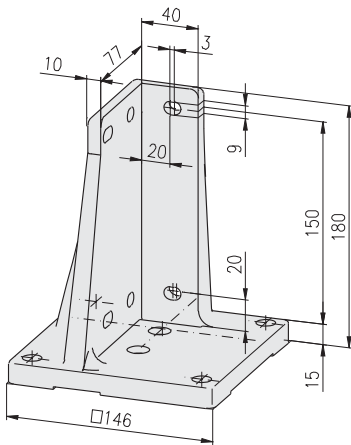
Comments

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

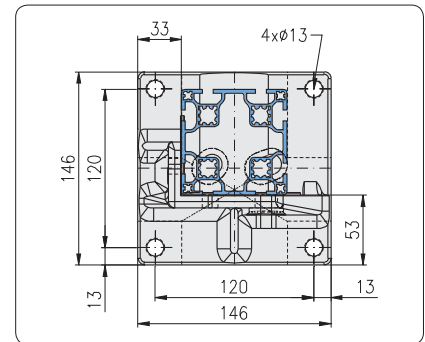
Mounting sets (→ 195, 196)

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



40x80, type 1, right

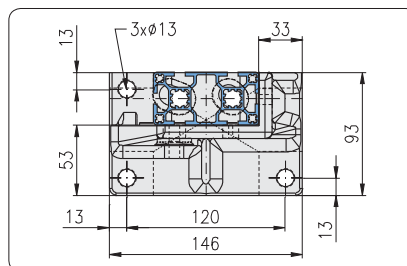
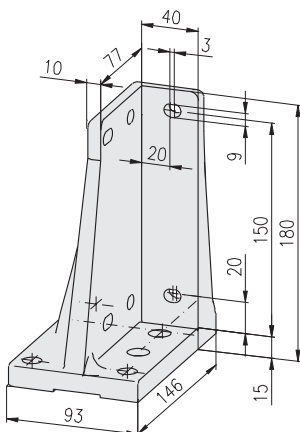
Comments

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

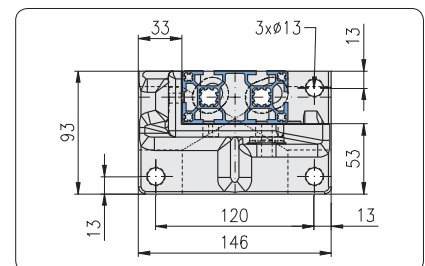
Mounting sets (→ 195, 196)

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



40x80, type 2, right

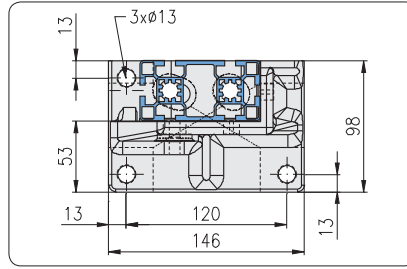
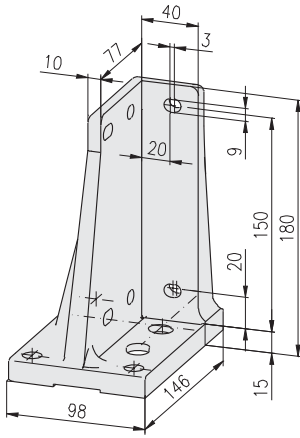
Comments

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

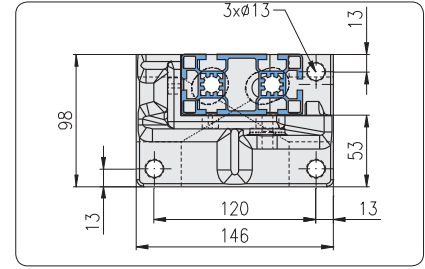
Mounting sets (→ 195, 196)

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



45×90, type 2, left



45×90, type 2, right

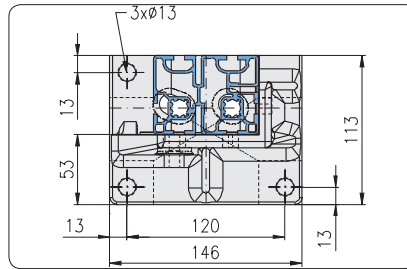
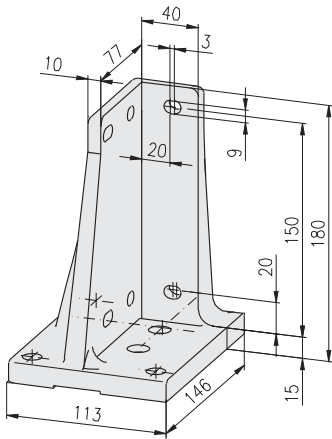
Comments

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

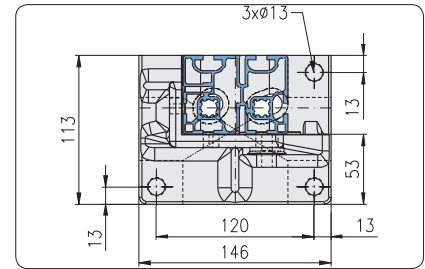
Mounting sets (↔ 195, 196)

Floor mounting set 3 MKT
Profile mounting set 6 EM8

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



60×80, type 2, left



60×80, type 2, right

Comments

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

Mounting sets (↔ 195, 196)

Floor mounting set 3 MKT
Profile mounting set 6 EM8

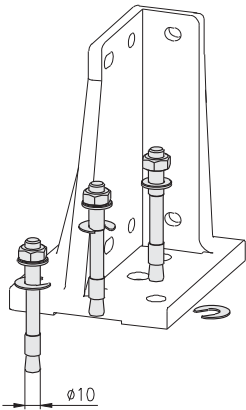
Description	for profile	Weight	Article-No.
Base foot 60×80, type 2, left	60×80	1.25 kg	1.44.84.6080.60L
Base foot 60×80, type 2, right	60×80	1.25 kg	1.44.84.6080.60R

Floor mounting sets

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

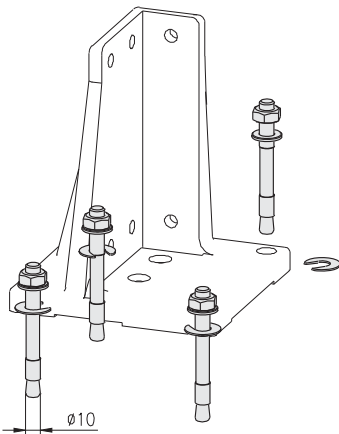
Comments

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



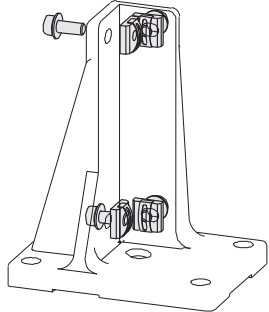
Description	Weight	Article-No.
Floor mounting set 3 MKT	202.3 g	1.44.83BB

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



Description	Weight	Article-No.
Floor mounting set 4 MKT	269.2 g	1.44.84BB

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

Profile mounting sets

Application

Suitable for mounting of the profiles:

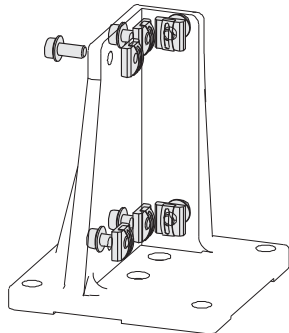
- 40×40
- 45×45

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

Application

Suitable for mounting of the profiles:

- 40×80
- 45×90
- 60×80, panel



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

Base angle

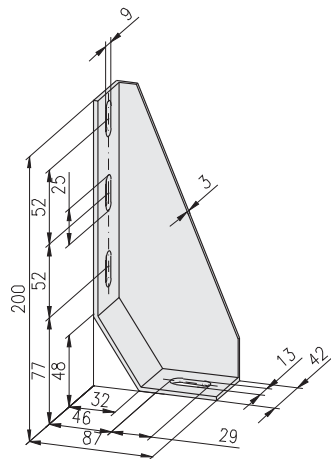


Application

For fastening of frames to floor or wall



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



Technical data

material: sheet steel
surface: galvanised and black coated

Comments

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

Description

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

Weight Article-No.

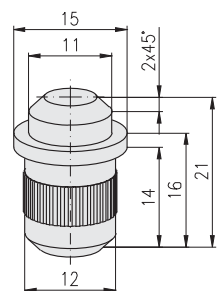
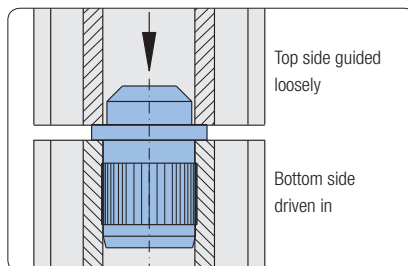
Description	Weight	Article-No.
Base angle 200×87×42, left	413 g	1.44.820001L
Base angle 200×87×42, right	413 g	1.44.820001R

Stacking foot



Application

Element to fix 2 profiles in core hole



Technical data

material: steel
surface: galvanised

Description

Stacking foot

Weight Article-No.

Description	Weight	Article-No.
Stacking foot	19 g	1.44.901221



Castors



Fastening in core hole



Fastening through base plate for profile without centric core hole



Fastening by press-fit threaded insert across the profile core hole

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



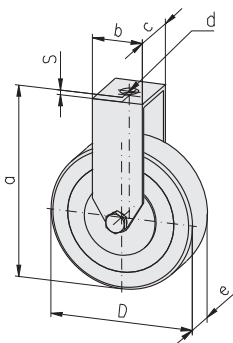
Technical data

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, ESD	Ø75	98	240 g	1.45.11075E
Fixed castor with bolt hole	Ø100	133	500 g	1.45.11100
Fixed castor with bolt hole, ESD	Ø100	133	500 g	1.45.11100E
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, ESD	Ø75	100	300 g	1.45.12075E
Fixed castor with fitting plate	Ø100	136	610 g	1.45.12100
Fixed castor with fitting plate, ESD	Ø100	136	610 g	1.45.12100E
Fixed castor with fitting plate	Ø125	161	1,010 g	1.45.12125

Dimensions see table on the right

Swivel castors



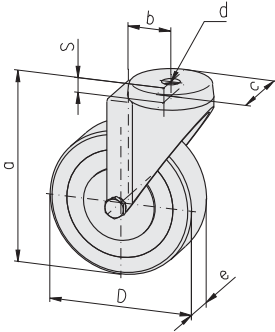
Technical data

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, ESD	Ø75	98	310 g	1.45.21075E
Swivel castor with bolt hole	Ø100	133	680 g	1.45.21100
Swivel castor with bolt hole, ESD	Ø100	133	680 g	1.45.21100E
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, ESD	Ø75	100	360 g	1.45.22075E
Swivel castor with fitting plate	Ø100	136	780 g	1.45.22100
Swivel castor with fitting plate, ESD	Ø100	136	780 g	1.45.22100E
Swivel castor with fitting plate	Ø125	161	990 g	1.45.22125

Dimensions see table below

Swivel castors lockable



Technical data

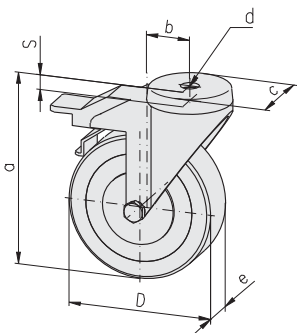
material:

- 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, ESD	Ø75	98	450 g	1.45.31075E
Swivel castor, lockable with bolt hole	Ø100	133	840 g	1.45.31100
Swivel castor, lockable with bolt hole, ESD	Ø100	133	840 g	1.45.31100E
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, ESD	Ø75	100	500 g	1.45.32075E
Swivel castor, lockable with fitting plate	Ø100	136	940 g	1.45.32100
Swivel castor, lockable with fitting plate, ESD	Ø100	136	940 g	1.45.32100E
Swivel castor, lockable with fitting plate	Ø125	161	1,090 g	1.45.32125

Castors: Design bolt hole									
D	Fixed castor			Swivel castor			d	e	F_{max}
	b	c	s	b	c	s			
Ø50	30	27	2.0	25	Ø43	10.5	Ø10.5	18	400 N
Ø75	34	27	2.0	30.5	Ø43	10.5	Ø10.5	25	550 N
Ø100	57	43	2.5	43	Ø57	10.5	Ø12.5	32	800 N
Ø125	57	43	2.5	43	Ø57	10.5	Ø12.5	32	1,000 N

Locking castors



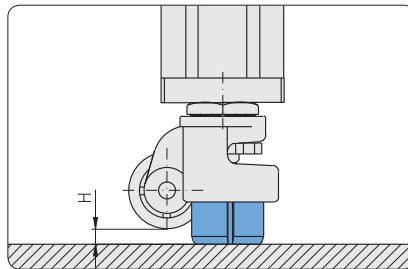
Application

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

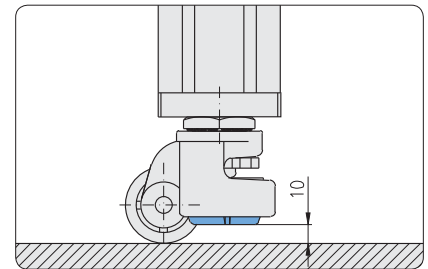
Technical data

material:

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



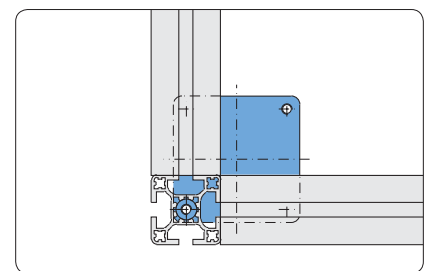
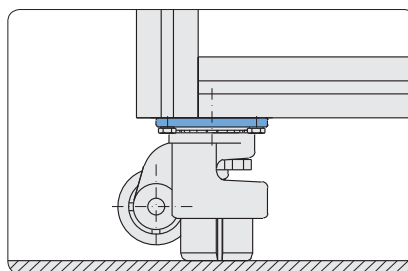
Extended support foot to secure position



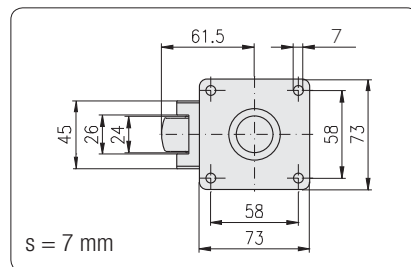
Retracted support foot for easy movement

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

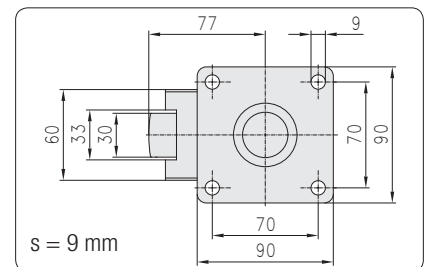
Locking castors with plate



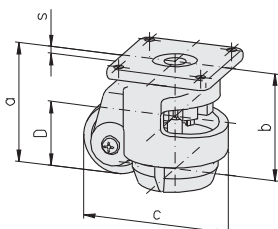
Mounting on profile frame using core hole and slot



Castor-Ø50

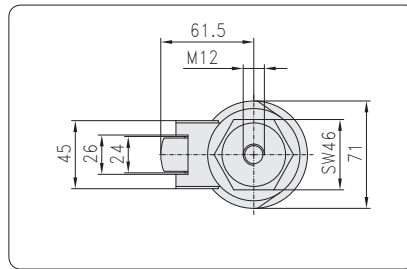
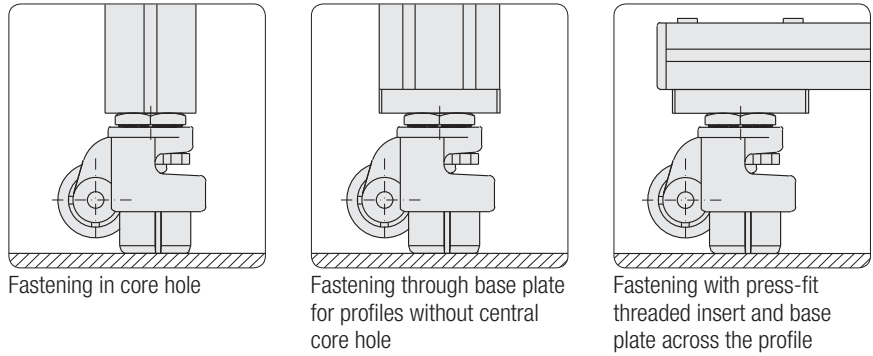


Castor-Ø63

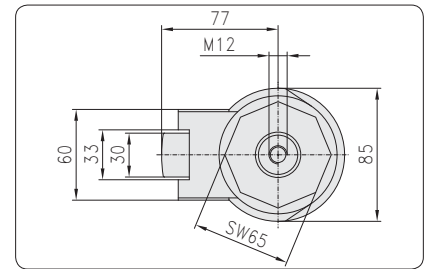


Description	D	Weight	Article-No.
Locking castor 250 kg, with plate	Ø50	700 g	1.45.80200.073
Locking castor 500 kg, with plate	Ø63	1,300 g	1.45.80400.090

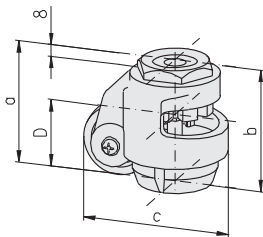
Locking castors with center thread



Castor-Ø50

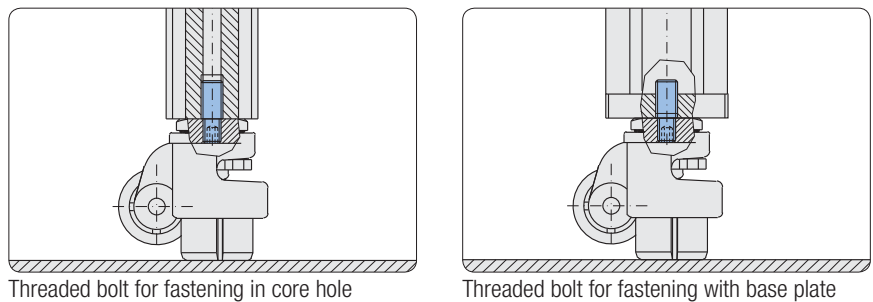


Castor-Ø63



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

Threaded bolt for locking castor with center thread



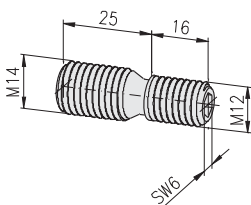
Application

For fastening of locking castors with central thread

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

Technical data

material: steel
surface: galvanised



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

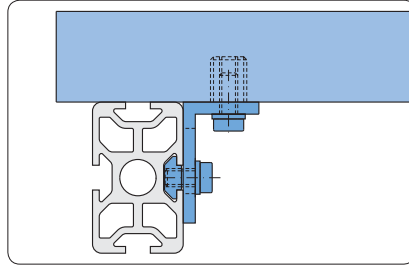
Angles 25×40



Fastening of panels

Application

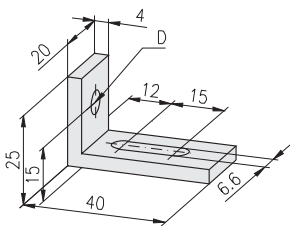
Angle bracket for the mounting of panels, table tops, switches and accessories



Fastening of table tops

Technical data

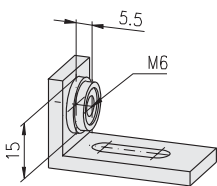
material: aluminium
 strength: F22
 surface: natural anodised



Comments

Design with clearance hole drilling

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



Comments

Design with nut M6 ± 0.5 mm floating in cage

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

Angles PA



Support of free-standing profiles

Application

For supporting of profiles and mounting of cover panels



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

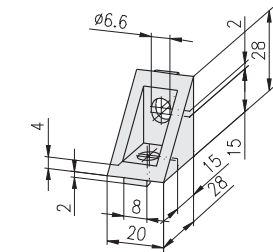


Mounting of cover panels
In this application the rotary lock must be removed from both sides

Technical data

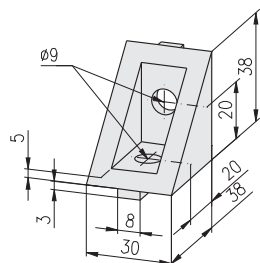
material: PA-GF

20×28



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

30×38



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

Angles GD-Zn


Application

For supporting profiles and mounting various machine components


Technical data

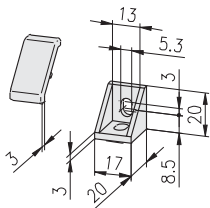
material:

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

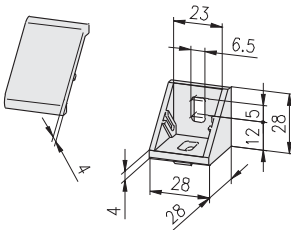
For mounting cross to the slot the noses can be broken off

□

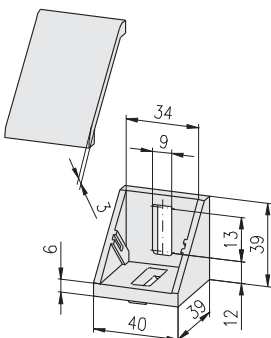
- 1 angle natural
- 2 angle powder-coated

17×20


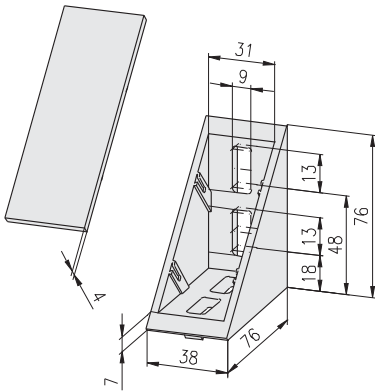
Description	Surface	Weight	Article-No.
Angle GD-Zn, 17×20	natural	13.7 g	1.46.204.1720.1
Angle GD-Zn, 17×20	powder-coated	13.7 g	1.46.204.1720.2
Cover cap for angle GD-Zn, 17×20		1.7 g	1.46.204.1720A
Angle connection set	1720 H/H	20.9 g	1.46.204.1720.□HH
Angle connection set	1720 H/F	23.6 g	1.46.204.1720.□HF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

28×28


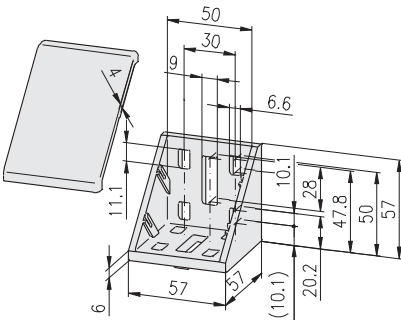
Description	Surface	Weight	Article-No.
Angle GD-Zn, 28×28	natural	39.6 g	1.46.204.2828.1
Angle GD-Zn, 28×28	powder-coated	39.6 g	1.46.204.2828.2
Cover cap for angle GD-Zn, 28×28		5.6 g	1.46.204.2828A
Angle connection set	2828 F/F	56.4 g	1.46.204.2828.□FF
Angle connection set	2828 F/E	56.8 g	1.46.204.2828.□FE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

40×39


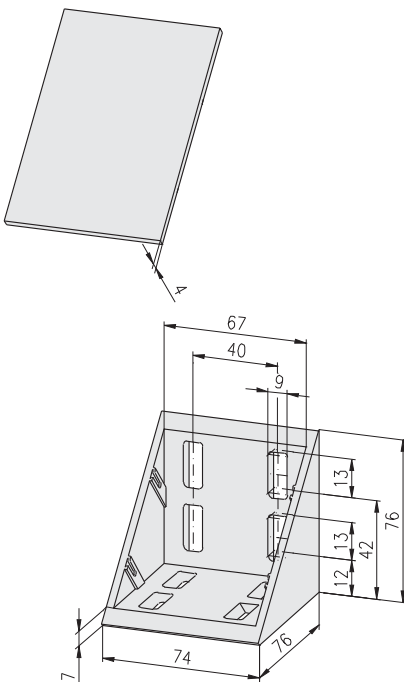
Description	Surface	Weight	Article-No.
Angle GD-Zn, 40×39	natural	85.5 g	1.46.204.4039.1
Angle GD-Zn, 40×39	powder-coated	85.5 g	1.46.204.4039.2
Cover cap for angle GD-Zn, 40×39		8.0 g	1.46.204.4039A
Angle connection set	4039 F/F	105.9 g	1.46.204.4039.□FF
Angle connection set	4039 F/E	111.9 g	1.46.204.4039.□FE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

38×76






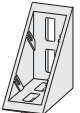


Description	Surface	Weight	Article-No.
Angle GD-Zn, 38×76	natural	273.0 g	1.46.204.3876.1
Angle GD-Zn, 38×76	powder-coated	273.0 g	1.46.204.3876.2
Cover cap for angle GD-Zn, 38×76		16.8 g	1.46.204.3876A
Angle connection set	3876 F/F	334.2 g	1.46.204.3876.□FF
Angle connection set	3876 F/E	342.2 g	1.46.204.3876.□FE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

57×57



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

74×76


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

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


 1 angle natural
 2 angle powder-coated

 Connection with T-screw only without cover cap

Angles GD-AI



Application

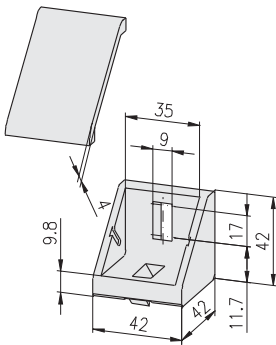
For supporting profiles and mounting various machine components

Technical data

material:

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

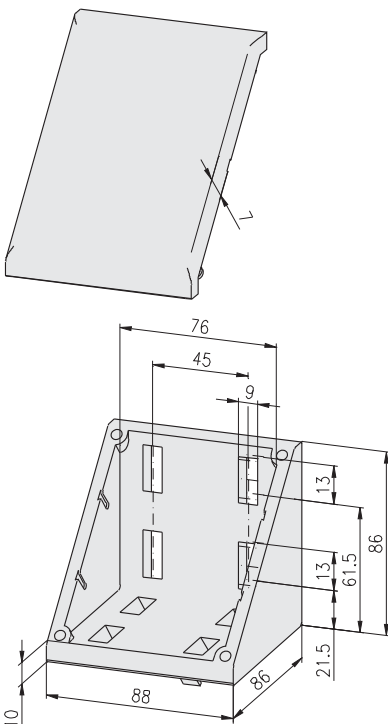
42×42



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

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

88×86



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

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

Angles Alu



Mounting of cover panels

Application

For supporting of profiles and mounting of cover panels



Support across the profile



Support of free-standing profiles

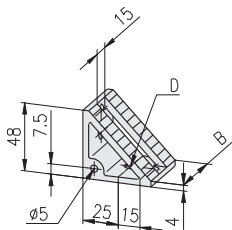
Technical data

material: aluminium
 strength: F25
 surface: natural anodised

Comments

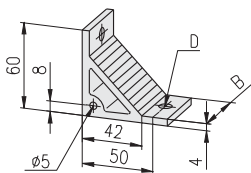
raw finish on request

48×48



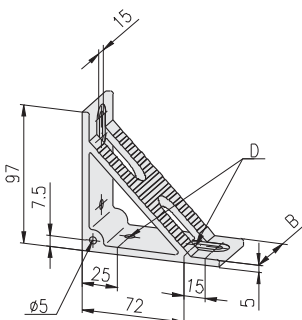
Description	D	B	Weight	Article-No.
Angle 48×48	Ø6.6	30	40 g	1.46.20536
Angle 48×48	Ø9.0	30	38 g	1.46.20539
Angle 48×48	Ø6.6	45	66 g	1.46.20546
Angle 48×48	Ø9.0	45	64 g	1.46.20549

60×60



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

97×97



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

Swivel angles



Fastening from below



Fastening from the side

Application

Infinitely variable adjusting of inclination with swivel angle

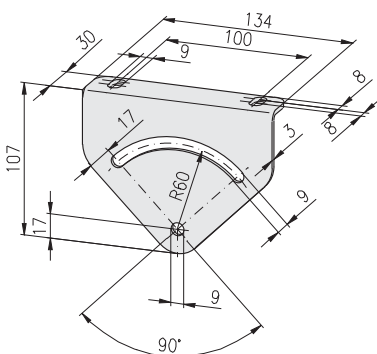
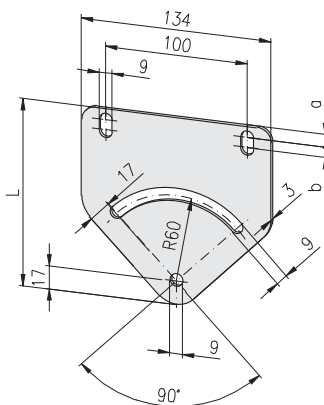
Technical data

Design alu:

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

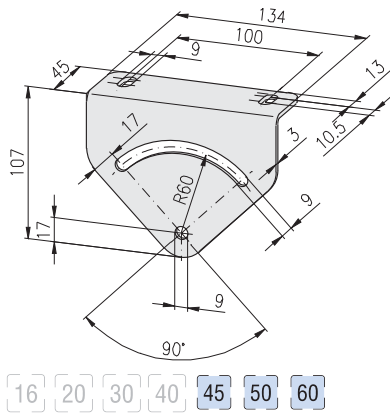
Design steel:

- material: steel
- surface: galvanised



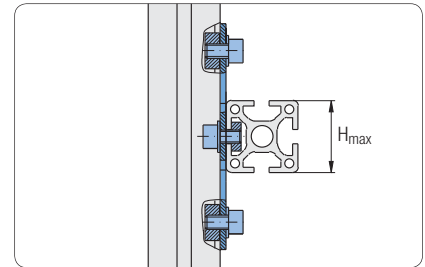
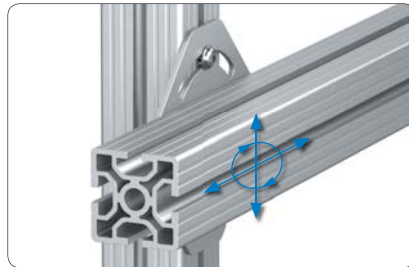
Description	L	Design	a	b	Weight	Article-No.
Swivel angle	131	alu	8	8.0	105 g	1.46.3013100.AL
Swivel angle	146	alu	13	10.5	116 g	1.46.3014600.AL
Swivel angle	131	steel	8	8.0	320 g	1.46.3013100.ST
Swivel angle	146	steel	13	10.5	360 g	1.46.3014600.ST

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



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

Cross connection plates

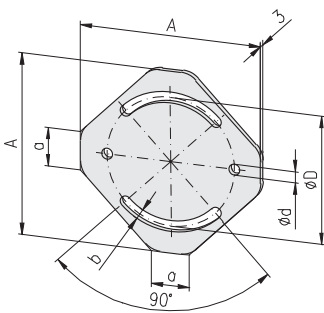


Application

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

Technical data

material: aluminium
 strength: F22
 surface: natural anodised



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

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

Base plates



Fastening of levelling feet

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

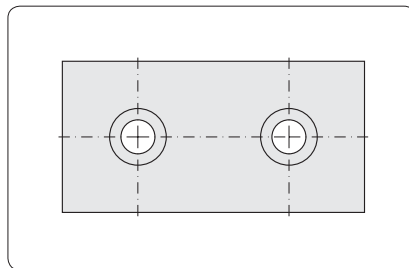
Accessories

- threaded insert
- cap-screw DIN 912

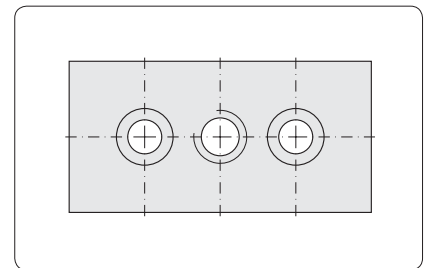
Comments

Counterbore DIN 74 for cap-screw DIN 912

Variants



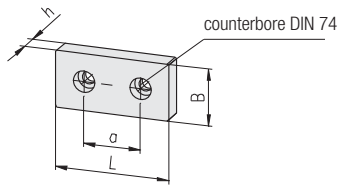
without thread



with thread

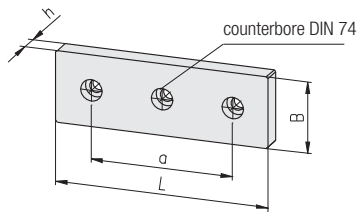
Dimensions	without thread			with thread M14		
	B×L	Design	h	Article-No.	Design	h
30×60	Alu	15	1.47.2030060.0600.1	GD-Zn	12	1.47.20306
40×80	Alu	15	1.47.2040080.0800.1	GD-Zn	16	1.47.20408
45×90	Alu	15	1.47.2045090.0800.1	GD-Zn	16	1.47.2045090
50×100	Alu	15	1.47.2050100.0800.1	GD-Zn	16	1.47.20510
50×150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



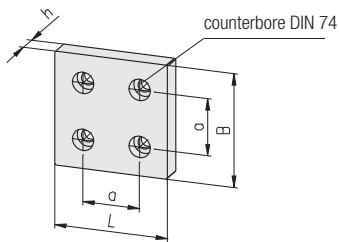
16 20 30 40 45 50 60

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



16 20 30 40 45 50 60

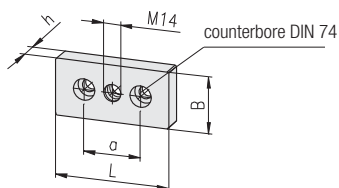
Description	B×L	Design	DIN 74	h	a	Weight	Article-No.
Base plate w/o thread	50×150	Alu	- Km8	15	100	280 g	1.47.2050150.0800.1



16 20 30 40 45 50 60

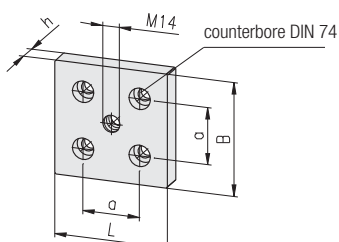
Description	B×L	Design	DIN 74	h	a	Weight	Article-No.
Base plate w/o thread	60×60	Alu	- Km8	15	30	115 g	1.47.2060060.0800.1
Base plate w/o thread	80×80	Alu	- Km8	15	40	228 g	1.47.2080080.0800.1
Base plate w/o thread	90×90	Alu	- Km8	15	45	297 g	1.47.2090090.0800.1
Base plate w/o thread	100×100	Alu	- Km8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



16 20 30 40 45 50 60

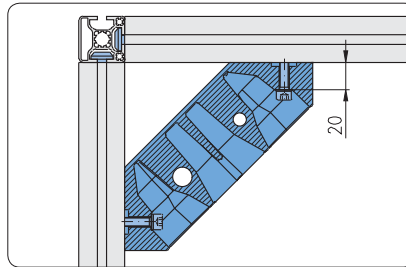
Description	B×L	Design		h	a	Weight	Article-No.
Base plate	60×60	GD-Zn	M14 M8	12	30	158.4 g	1.47.2060060
Base plate	80×80	GD-Zn	M14 M8	16	40	434.3 g	1.47.20808
Base plate	90×90	GD-Zn	M14 M8	16	45	520.7 g	1.47.2090090
Base plate	100×100	GD-Zn	M14 M8	16	50	601.0 g	1.47.21010

Floor mounting plate



Application

For fastening and manual levelling of profile racks and frames

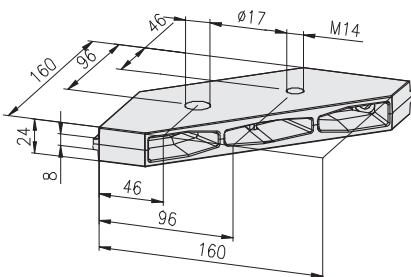


Technical data

material: aluminium
 surface: natural or black powder-coated

Fastening elements

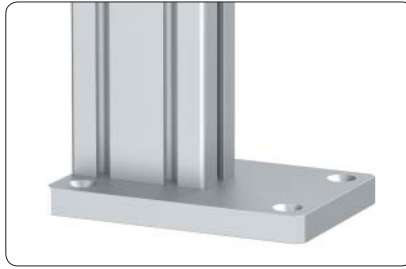
- F-slot: 2× T-nut with leaf spring FM8 1.32.FM8
 2× cap screw M8×25
- E-slot: 2× threaded plate, heavy EM8 1.31.6EM8
 2× cap screw M8×30



Description

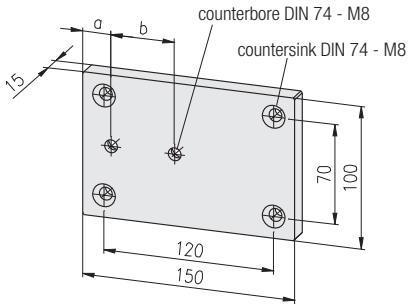
Description	Weight	Article-No.
Floor mounting plate, natural	622 g	1.47.225160.1
Floor mounting plate, black powder-coated	622 g	1.47.225160.2

Mounting plates



Application

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



Technical data

material: aluminium
strength: F22
surface: natural anodised

Comments

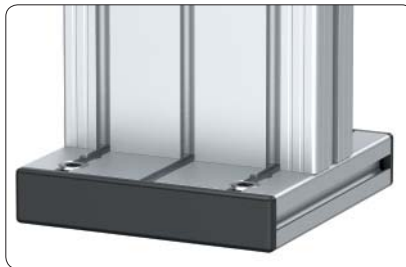
Counterbore DIN 74 - M8 for cap-screw DIN 912 - M8
Countersink DIN 74 - M8 for countersunk screw DIN 7991 - M8

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

Description

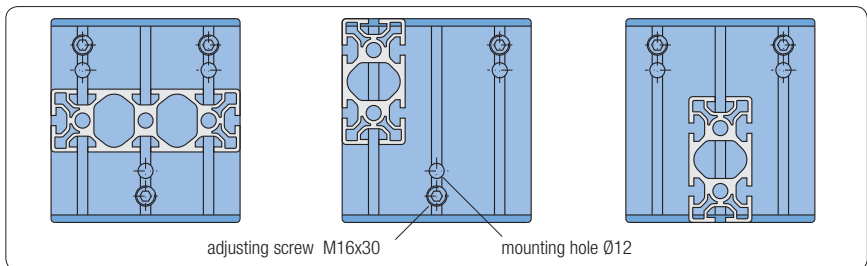
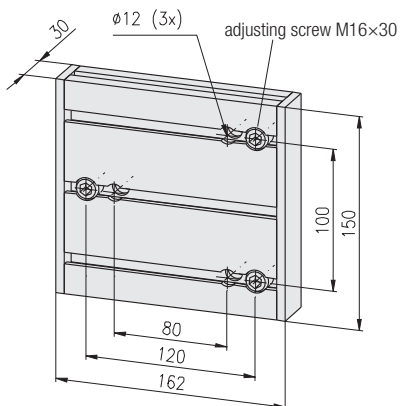
	a	b	Weight	Article-No.
Mounting plate for profile 30×60	15	30	450 g	1.47.30306
Mounting plate for profile 40×80	20	40	450 g	1.47.30408
Mounting plate for profile 50×100	25	50	450 g	1.47.30510

Floor plate



Application

For fastening and adjusting of vertical profiles to floor and wall



Fastening variants

Technical data

aluminium profile: anodised
cover caps: PA-GF black

Delivery unit:

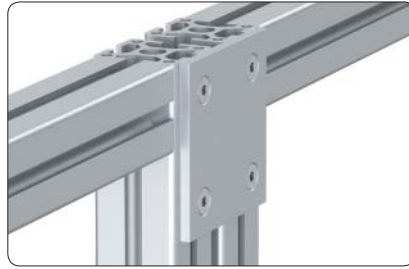
- 1 profile 30×150×150
- 2 cover caps
- 3 set screws M16×30

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

Description

	Weight	Article-No.
Floor plate 30×150×150	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

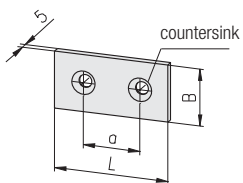
- for subsequent or additional connection of profiles
- for fastening of accessories

Technical data

material: aluminium
 strength: F22
 surface: natural anodised

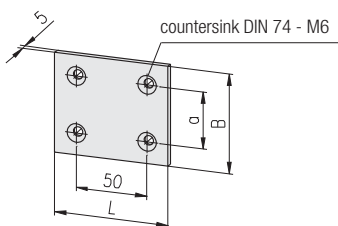
Comments

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



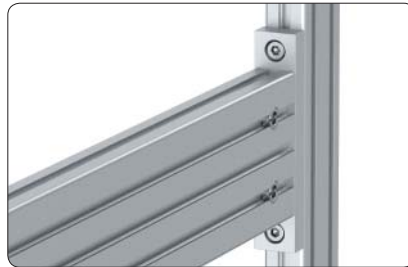
- 16 20 30 40 45 50 60

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
30×150**



Fastening of profile 30×100

Fastening of profile 30×100 with joint 30×100



Application

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

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

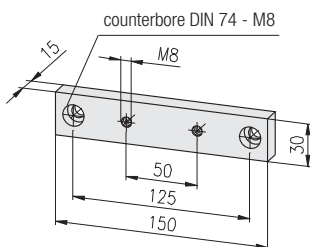
Technical data

material: aluminium
strength: F22
surface: natural anodised

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

Comments

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



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

Description

Fastening plate 30×150

Weight

228 g

Article-No.

1.47.60315

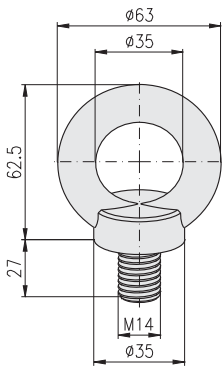
Eye-bolt



Mounting directly in the profile (core hole)



Mounting with base plates



Application

Eye-bolts for the transfer of frames and complete equipment

Technical data

material: C 15

max. load 1):

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

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

Description

Eye-bolt M14

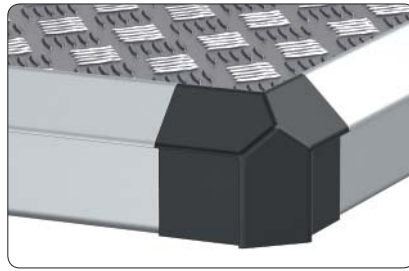
Weight

193 g

Article-No.

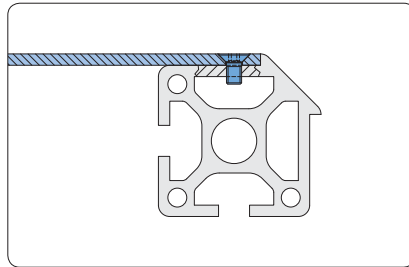
1.47.96314

Corner pieces

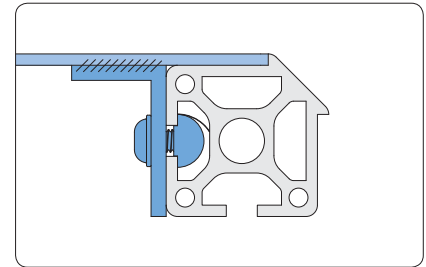


Application

Corner piece set angle PA for the connection of panel base profiles 40x40, 2E, 45°, SP

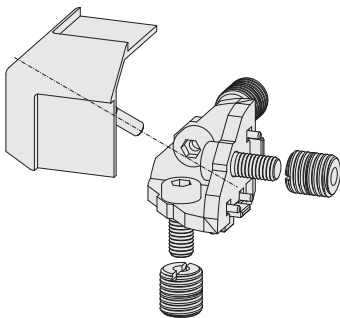


Assembly possibility



Assembly possibility

Corner angle

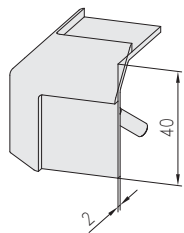


Technical data

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

Delivery unit (set)

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



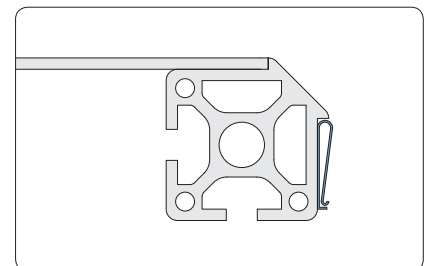
Description	Weight	Article-No.
Corner piece set angle PA	133.0 g	1.48.14340

Description	Weight	Article-No.
Corner piece cover cap, angle PA	12.5 g	1.48.14342

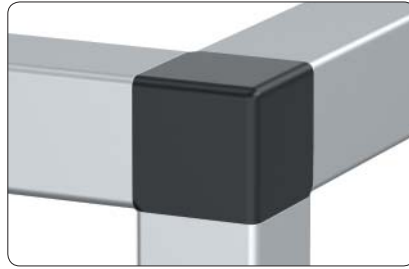
Label bar



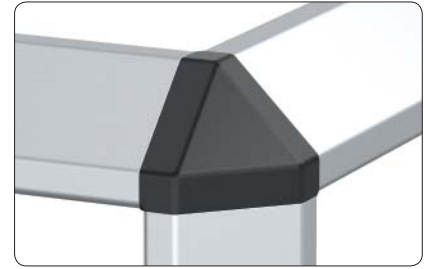
Recess can also be used for label bars / label strips



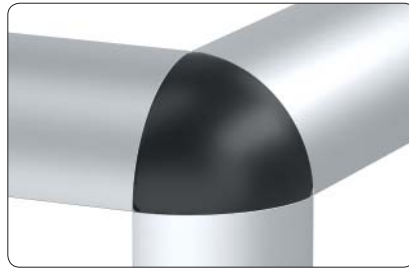
Corner pieces



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



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



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

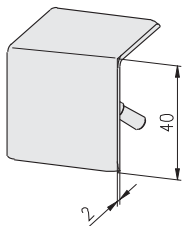
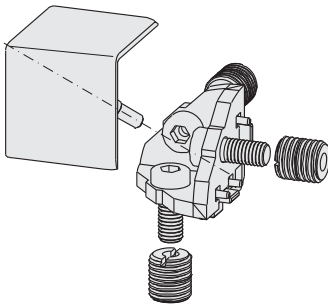
Technical data

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

Delivery unit (set)

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

Cubic



Description

Corner piece set cubic PA

Weight

136.0 g

Article-No.

1.48.14410

Description

Corner piece cover cap, cubic PA

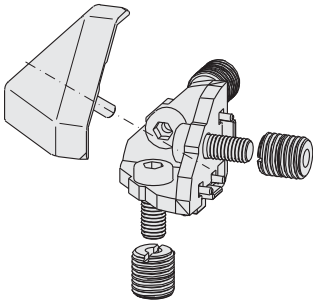
Weight

15.5 g

Article-No.

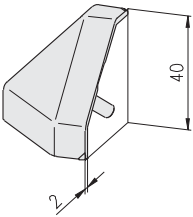
1.48.14412

45°



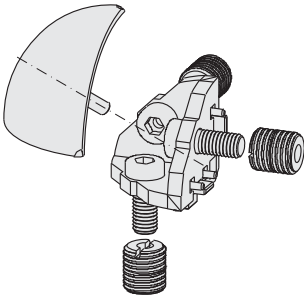
16 20 30 40 45 50 60

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



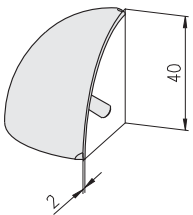
Description	Weight	Article-No.
Corner piece cover cap, 45° PA	7.5 g	1.48.14442

Spherical



16 20 30 40 45 50 60

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



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

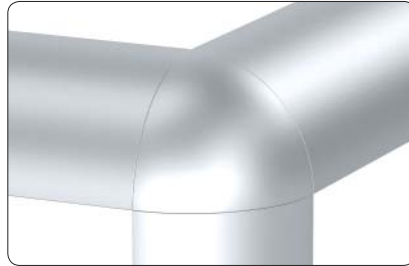
Corner pieces



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



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



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

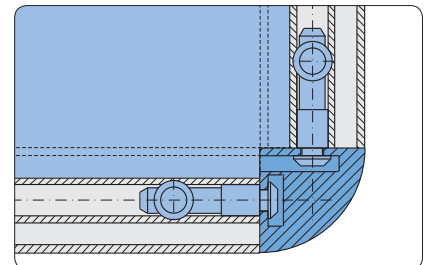
Technical data

material: aluminium
strength: F22
surface: natural anodised

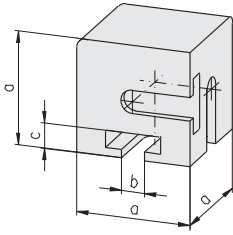
General

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

Connection with corner pieces

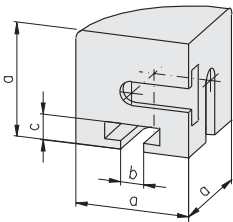


Connection of profiles with one corner piece using the standard connector

Corner pieces cubic


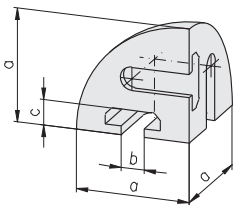
16 20 30 40 45 50 60

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

Corner pieces segment


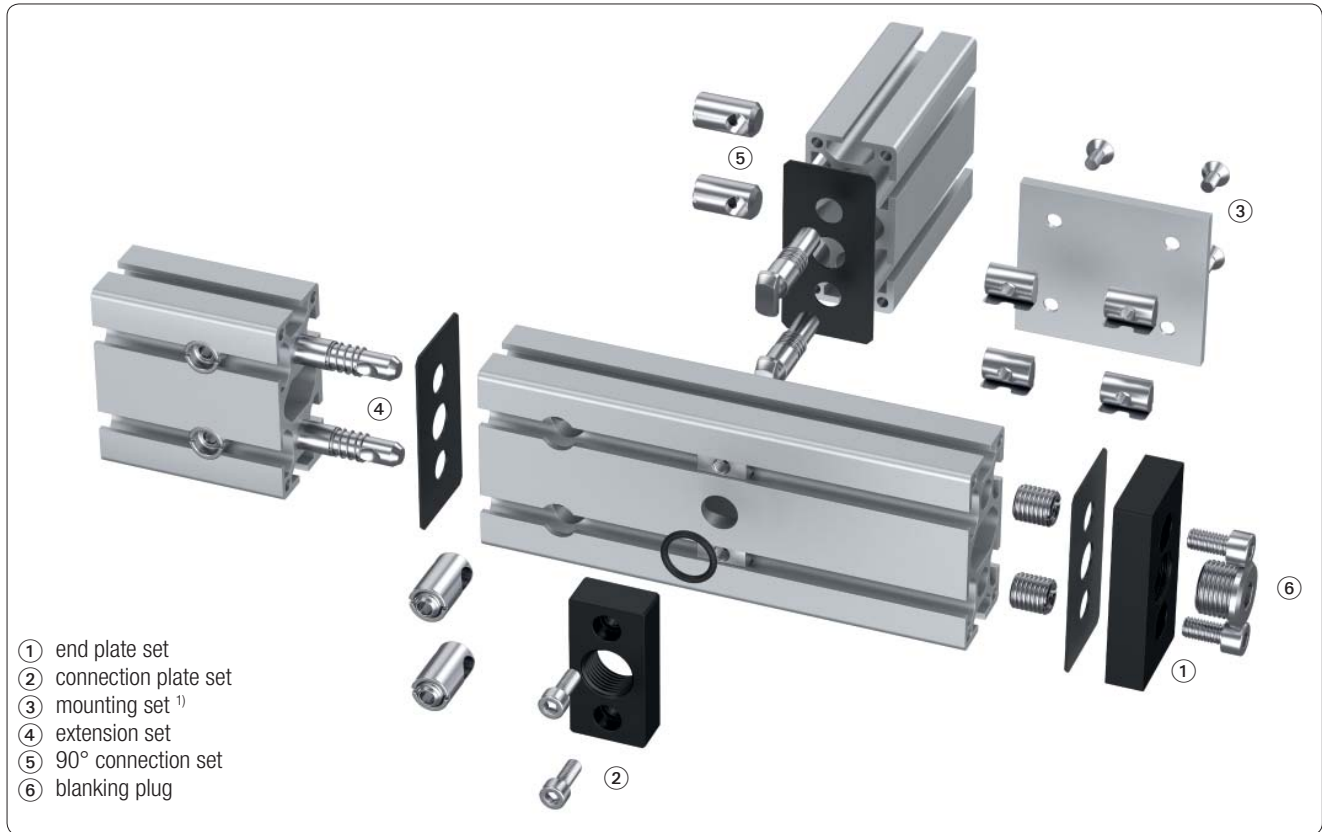
16 20 30 40 45 50 60

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

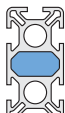




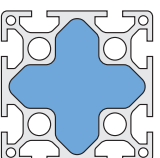
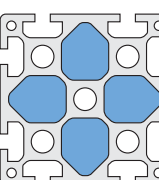
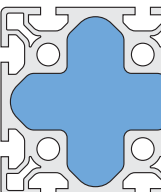
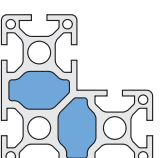
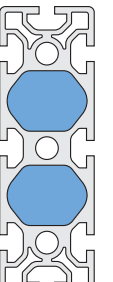
Corner pieces sphere


16 20 30 40 45 50 60

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



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

PG 30	PG 40	PG 45	PG 50	PG 60
 Profile 30×60, 6F ²⁾ 299.8 mm ²	 Profile 40×80, 6E ²⁾ 521.8 mm ²	 Profile 45×90, 6E ²⁾ 816.2 mm ²	 Profile 50×100, 6E ²⁾ 1,043.3 mm ²	 Profile 60×90, 6E ²⁾ 1,203.0 mm ²
	 Profile 80×80, 8E ²⁾ 2,454.1 mm ²	 Profile 90×90, 8E ²⁾ 635.2 mm ² (4×)	 Profile 100×100, 8E ²⁾ 4,080.4 mm ²	
	 Profile 80×80, 8E, angle ²⁾ 505.7 mm ² (2×)		 Profile 50×150, 8E ²⁾ 1,115.8 mm ² (2×)	<div style="border: 1px solid gray; padding: 5px;"> <p>Comments Any profile with closed interior chambers can also be used as pressure line max. pressure: 10 bar</p> </div>

²⁾ (pneumatic) cross-sectional area

Pneumatic end plates



Application

- for the closing of profile ends
- vent disconnection thread

Comments

Blanking plug and reducing nipple
 ↳ Pneumatic accessories 1.59
 Article-No. 1.59.010□□ and
 1.59.020□□



Technical data

End plate

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

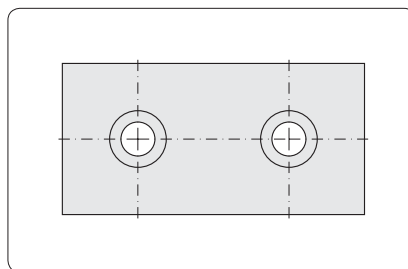
Seal

- material: NBR

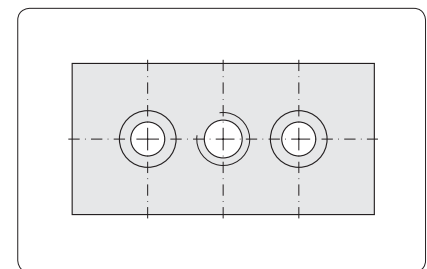
Comments

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

Variants



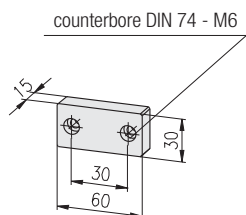
without thread



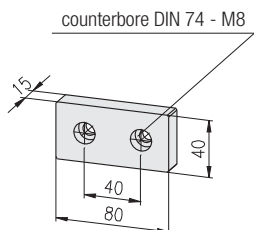
with thread

Dimensions	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		1.51.14081
45×90	1.47.2045090.0800.1		1.51.14591
50×100	1.47.2050100.0800.1		1.51.15101
50×150	1.47.2050150.0800.1		1.51.15151
80×80	1.47.2080080.0800.1		1.51.18081
100×100	1.47.2100100.0800.1		1.51.20101

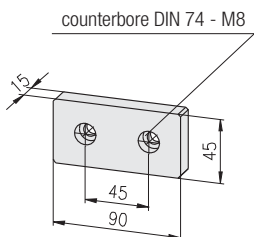
Pneumatic end plate sets
 without thread

30×60


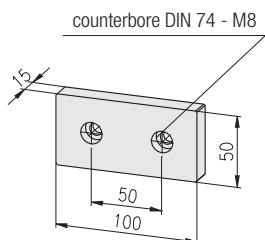
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 30×60	121 g	1.50.2030060.0600.0
Single parts		
	Pcs.	
Base plate w/o thread 30×60	1	64 g 1.47.2030060.0600.1
Pneumatic seal 30×60	1	3 g 1.51.13062
Threaded insert M14/M6	2	22 g 1.35.1140615
Cap-screw DIN 912 - M6×16	2	5 g 0.63.D00912.06016

40×80


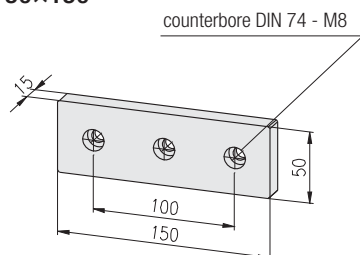
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 40×80	173 g	1.50.2040080.0800.0
Single parts		
	Pcs.	
Base plate w/o thread 40×80	1	114 g 1.47.2040080.0800.1
Pneumatic seal 40×80	1	5 g 1.51.14082
Threaded insert M14/M8	2	18 g 1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g 0.63.D00912.08016

45×90


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

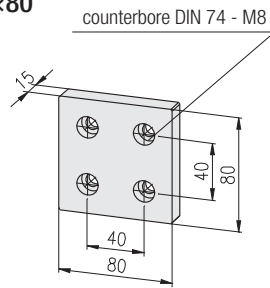
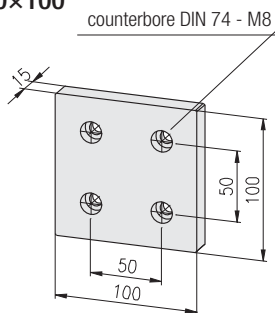
50×100


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

50×150


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

Pneumatic end plate sets
 without thread

80×80

100×100


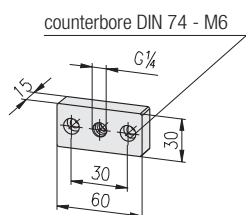
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 80×80	343 g	1.50.2080080.0800.0

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

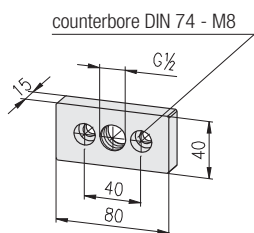
Description	Weight	Article-No.
Pneumatic end plate set w/o thread 100×100	494 g	1.50.2100100.0800.0

Single parts	Pcs.	Weight	Article-No.
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

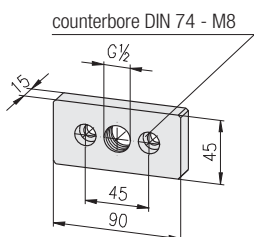
Pneumatic end plate sets
with thread

30×60


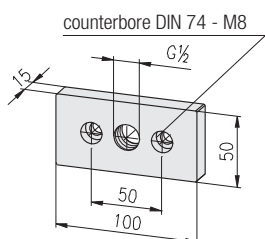
Description	Weight	Article-No.
Pneumatic end plate set 30×60	110 g	1.51.13060
Single parts		
	Pcs.	
Pneumatic end plate 30×60	1 53 g	1.51.13061
Pneumatic seal 30×60	1 3 g	1.51.13062
Threaded insert M14/M6	2 22 g	1.35.1140615
Cap-screw DIN 912 - M6×16	2 5 g	0.63.D00912.06016

40×80


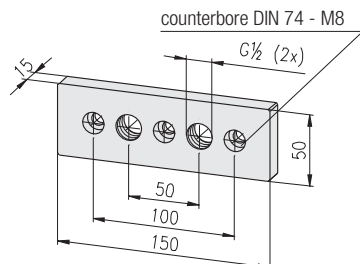
Description	Weight	Article-No.
Pneumatic end plate set 40×80	153 g	1.51.14080
Single parts		
	Pcs.	
Pneumatic end plate 40×80	1 94 g	1.51.14081
Pneumatic seal 40×80	1 5 g	1.51.14082
Threaded insert M14/M8	2 18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	2 9 g	0.63.D00912.08016

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

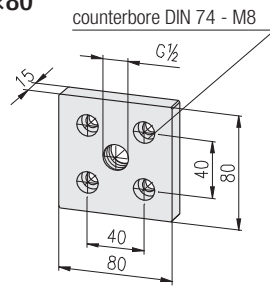
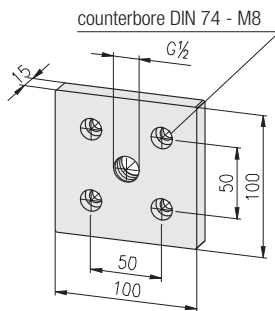
50×100


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

100×100


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

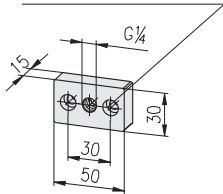
- material: aluminium
 - strength: F22
 - surface: black powder-coated
- O-Ring
- material: NBR

Comments

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

30×60

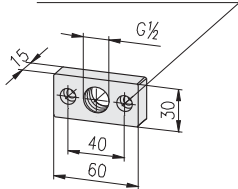
counterbore DIN 74 - M6



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

40×80

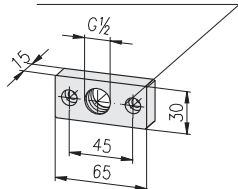
counterbore DIN 74 - M6



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

45×90

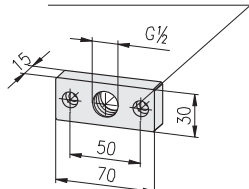
counterbore DIN 74 - M6



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

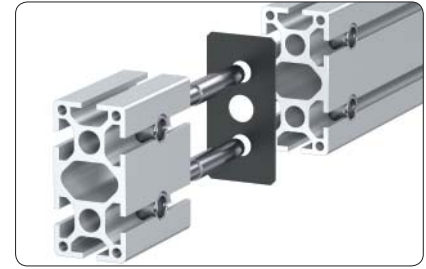
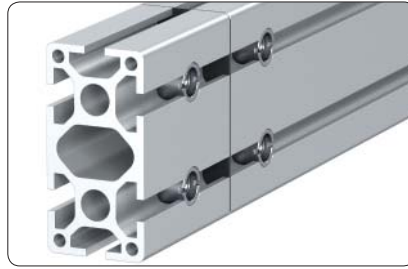
50×100

counterbore DIN 74 - M6



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

Pneumatic extension sets



For the extension of air pressurised profiles

for profile 30×60

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

for profile 40×80

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

for profile 45×90

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

for profile 50×100

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

for profile 50×150

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

for profile 60×90

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

for profile 80×80 angle

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

for profile 80×80

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

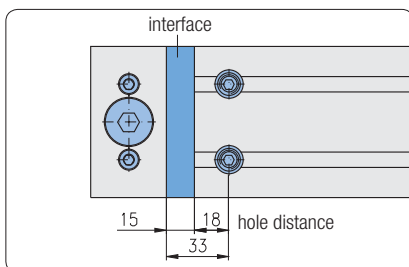
for profile 100×100

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

Pneumatic 90° connection sets



For 90° connections of air pressurised profiles



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


for profile 30×60

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

for profile 40×80

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

for profile 45×90

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

for profile 50×100

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

for profile 50×150

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

for profile 60×90

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

for profile 80×80

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

for profile 100×100

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

Pneumatic accessories



Application

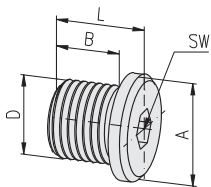
Blanking plug for the connection thread



Application

Reducing nipple to reduce the connection thread

Blanking plug



Technical data

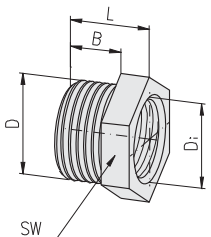
- material:
- blanking plug: steel, galvanised
 - sealing: NBR

Comments

Including sealing

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

Reducing nipple



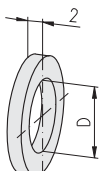
Technical data

material: brass

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

Sealing ring

for reducing nipple



Technical data

material: PA, white

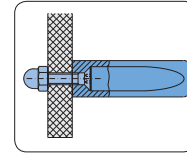
Description	D	Weight	Article-No.
Sealing ring	Ø1/4"	1 g	1.59.03030
Sealing ring	Ø3/8"	1 g	1.59.03040
Sealing ring	Ø1/2"	2 g	1.59.03050

Handles light PA

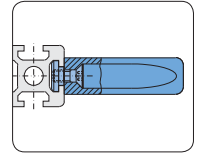


Application

For doors and drawers of light material



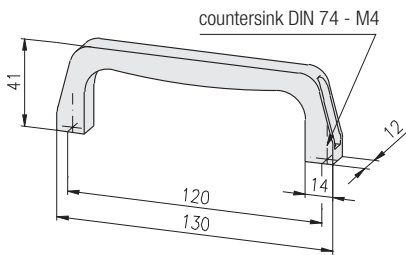
Mounting on panel elements



Mounting on profiles

Technical data

material: PA



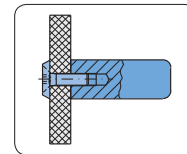
Description	Colour	Weight	Article-No.
Handle light PA	grey	30 g	1.61.20.1
Handle light PA	black	30 g	1.61.20.2

Handle light Alu

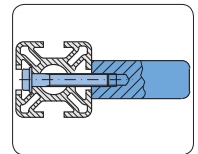


Application

For doors and drawers of light material



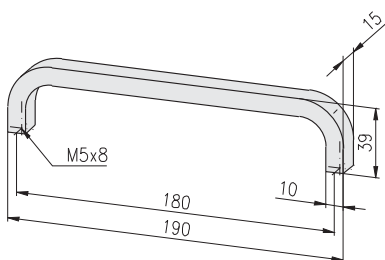
Mounting on panel elements



Mounting on profiles

Technical data

material: aluminium
surface: natural anodised



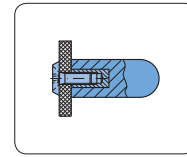
Description	Weight	Article-No.
Handle light Alu	85 g	1.61.210

Handle PA

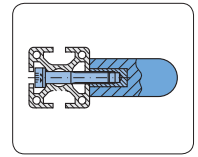


Application

Ergonomical designed handle



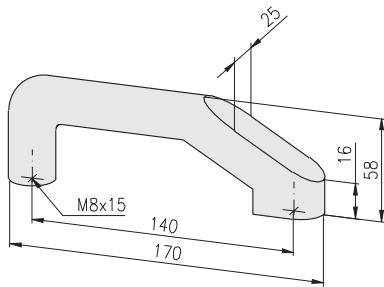
Mounting on panel elements



Mounting on profiles

Technical data

material: PA
colour: black



Description

Handle PA, with thread M8

Weight

166 g

Article-No.

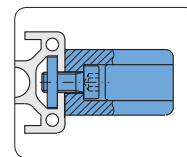
1.61.230

Handles PA

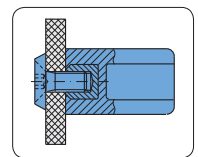


Application

Handle with fixing possibilities from the front and the rear



Handle with bore

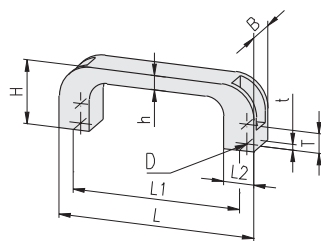


Handle with thread

Technical data

material: PA
colour: black

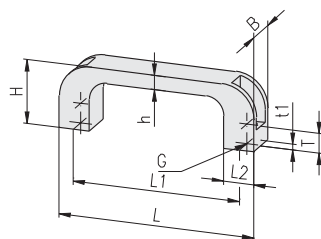
with bore



Description

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

with thread



Description

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

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

Handles PA

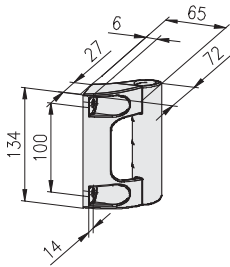


Application

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

Technical data

material: PA
colour: black



Description

Handle PA, 135, with screw covers

Weight

117 g

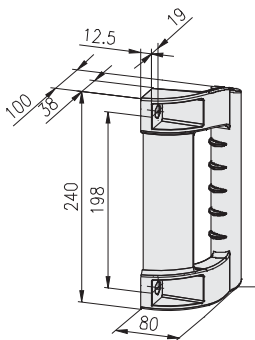
Article-No.

1.61.26135



Technical data

material: PA
colour: black



Description

Handle PA, 240, with screw covers

Weight

356 g

Article-No.

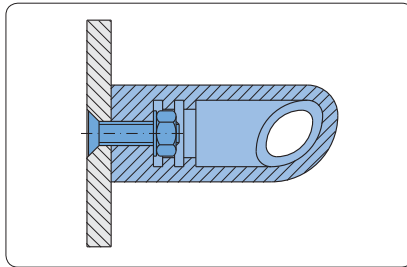
1.61.26240

**Handle system
oval design**

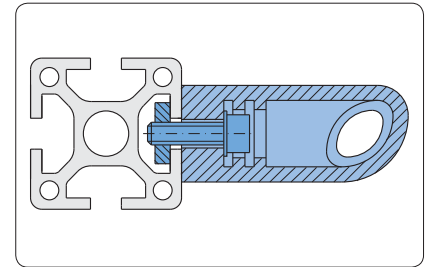


Application

Handle system for making handles of any length

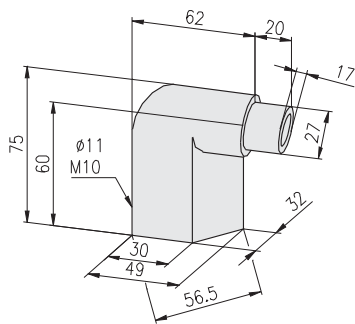


Mounting on panel elements



Mounting on profiles

Oval corner piece right



Technical data

material: PA-GF
colour: black

Description

Oval corner piece right

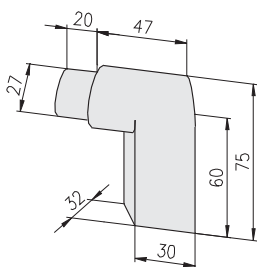
Weight

65 g

Article-No.

1.61.290

Oval corner piece left



Technical data

material: PA-GF
colour: black

Description

Oval corner piece left

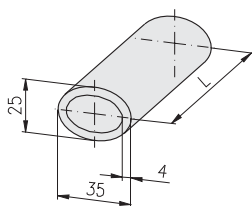
Weight

65 g

Article-No.

1.61.291

Oval tube 35x4



Technical data

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

Description

Oval tube 35x4

bar

Weight

2.5 kg

Article-No.

1.19.14535.30



Oval tube 35x4

cut to length

0.83 kg/m

1.19.14535-A00A00/...

/... = length in mm

Grab handles



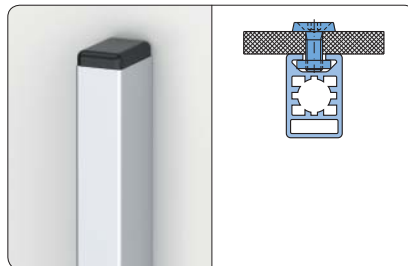
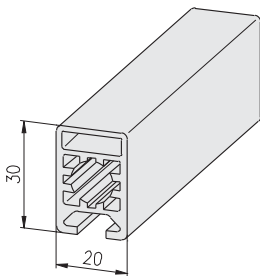
Application

Alu grip handles for customer's assembly from standard profiles

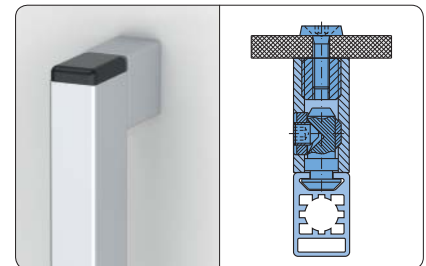
Comments

Grab handles increase the rigidity of panels without profile frames

Profile 20x30, 1F, LP




Fixing of the profile directly on the panel element



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

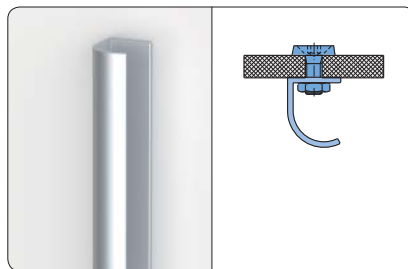
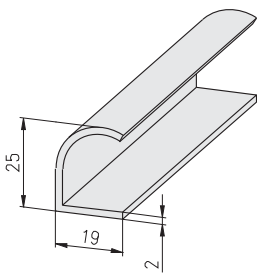
Description

 Profile 20x30, 1F, LP	cut to length	0.66 kg/m	1.11.020030.14LP-A00A00/... /... = length in mm
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Weight

Article-No.

Grab handle profiles

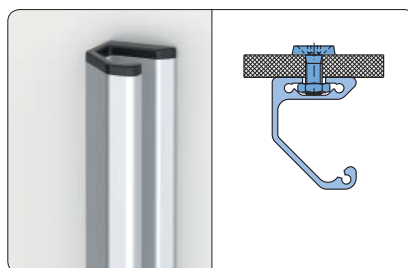
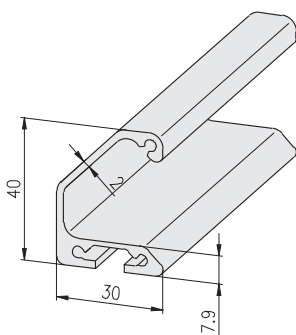


Description


 Grab handle profile	cut to length	0.3 kg/m	1.19.14319-A00A00/... /... = length in mm
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Weight

Article-No.



Description

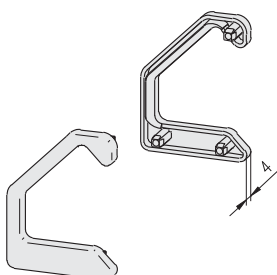
 Grab handle profile	cut to length	0.73 kg/m	1.19.14330-A00A00/... /... = length in mm
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Weight

Article-No.

Technical data

material: PA-GF
colour: black



Description

Cover cap kit left/right for grab handle profile		3.6 g	1.19.14330A
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Weight

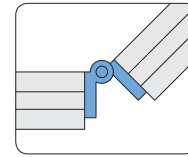
Article-No.

Hinges

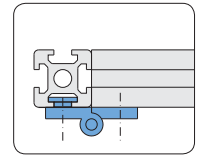


Application

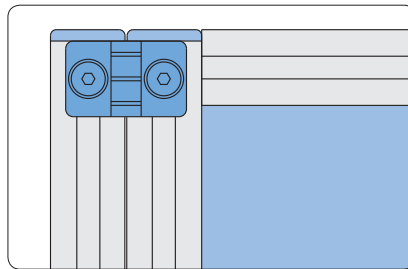
Hinge for doors and flaps of light material



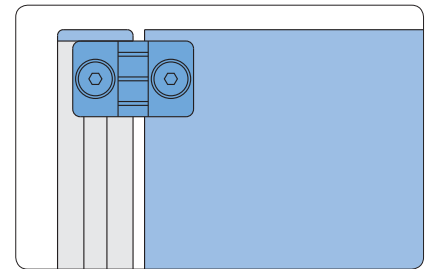
Face-sided connection of 2 profiles



Connection of 2 profiles in rectangular position

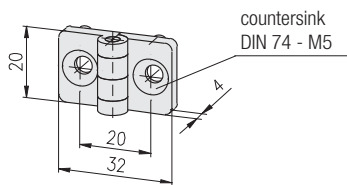


Doors with profile frames

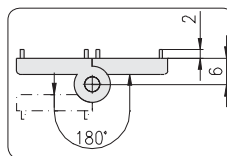


Doors made of panel elements without profile frames

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
- 40
- 45
- 50
- 60



Swivel angle

Comments

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

Description

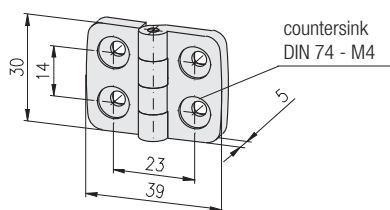
Hinge 20×32

Weight

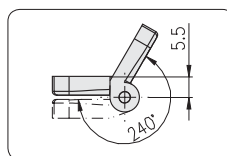
6 g

Article-No.

1.62.12032



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



Swivel angle

Comments

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

Description

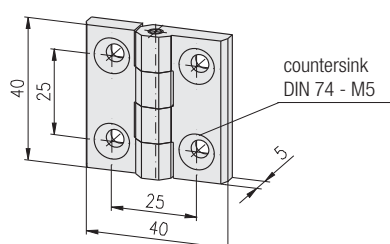
Hinge 30×39

Weight

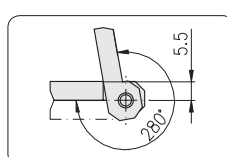
7.6 g

Article-No.

1.62.23039



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



Swivel angle

Comments

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

Description

Hinge 40×40

Weight

55 g

Article-No.

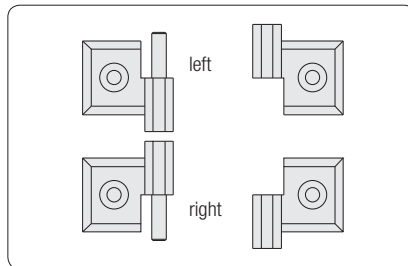
1.62.24040

Lift-off hinges

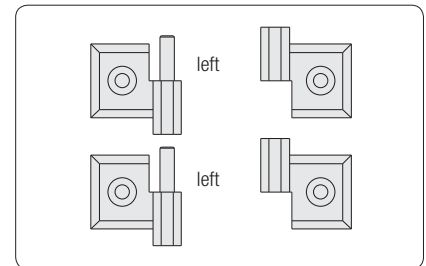


Application

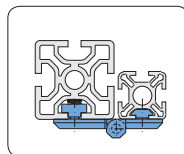
Enables the connection of different profile widths in parallel as well as in rectangular arrangement



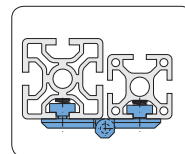
Non-liftable door with one right- and one left-sided hinge



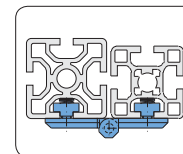
Liftable door with two similar hinges



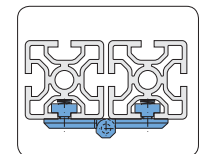
1 profile 30x30
1 profile 50x50



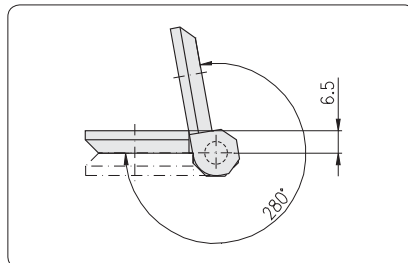
1 profile 40x40
1 profile 50x50



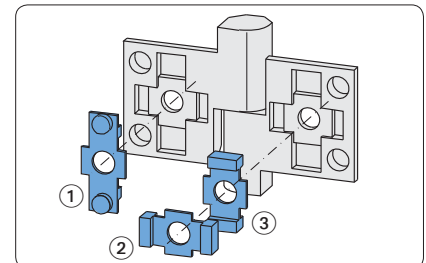
1 profile 45x45
1 profile 50x50



2 profiles 50x50



Swivel angle



Application of locking device:

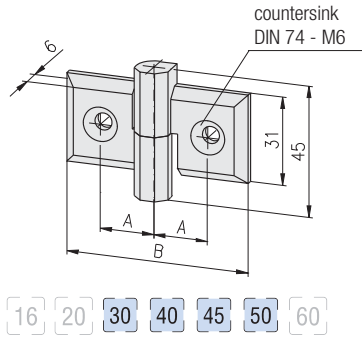
- ① for panel element
- ② for profile slot, horizontal
- ③ for profile slot, vertical

Technical data

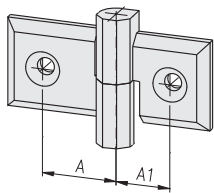
material: GD-Zn
 surface: black coated
 hinge bolt: stainless steel
 max. static load: 250 N

Comments

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



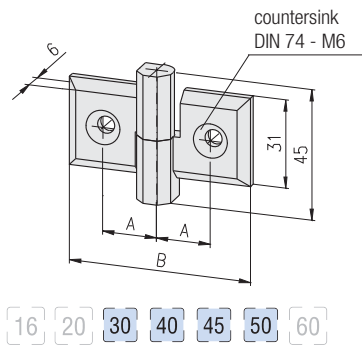
Description A	B	Weight	Article-No.
Hinge 31, A16.5 left	59	68 g	1.62.331.16/16L
Hinge 31, A19.0 left	64	72 g	1.62.331.19/19L
Hinge 31, A21.5 left	69	76 g	1.62.331.21/21L
Hinge 31, A24.0 left	74	81 g	1.62.331.24/24L
Hinge 31, A26.5 left	79	86 g	1.62.331.26/26L



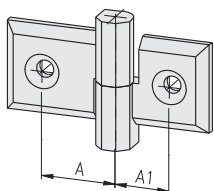
Combinations

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

¹⁾ Data without decimal places



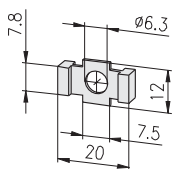
Description A	B	Weight	Article-No.
Hinge 31, A16.5 right	59	68 g	1.62.331.16/16R
Hinge 31, A19.0 right	64	72 g	1.62.331.19/19R
Hinge 31, A21.5 right	69	76 g	1.62.331.21/21R
Hinge 31, A24.0 right	74	81 g	1.62.331.24/24R
Hinge 31, A26.5 right	79	86 g	1.62.331.26/26R



Combinations

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

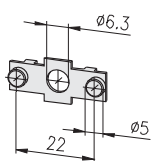
¹⁾ Data without decimal places



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

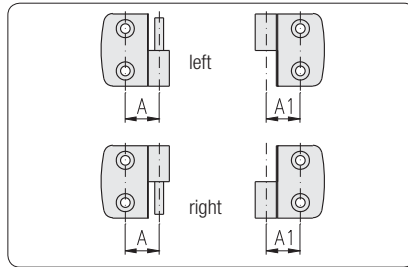
Description	Weight	Article-No.
Anti-twist device for panel element	4 g	1.62.331x2

Lift-off hinges

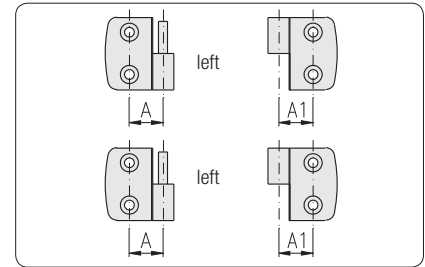


Application

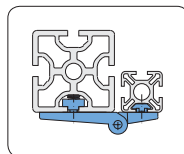
The hinges enable the connection of profiles with different widths



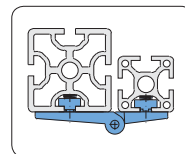
Non-liftable door with one right- and one left-sided hinge



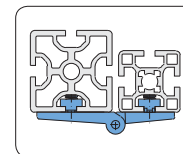
Liftable door with two similar hinges



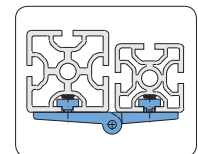
1 profile 60×60
1 profile 30×30



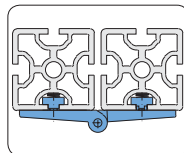
1 profile 60×60
1 profile 40×40



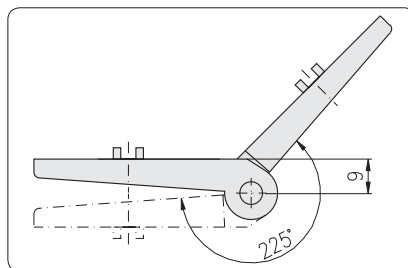
1 profile 60×60
1 profile 45×45



1 profile 60×60
1 profile 50×50



2 profiles 60×60



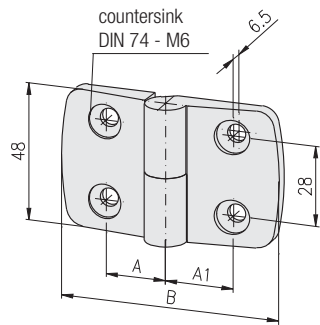
Swivel angle

Technical data

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

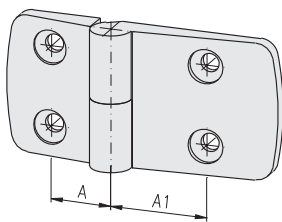
Comments

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



16 20 30 40 45 50 60

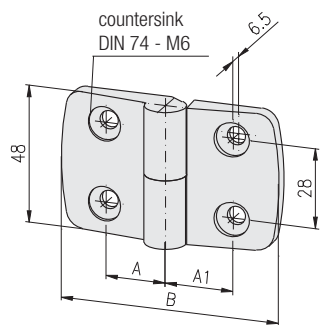
Description	A = A1	B	Weight	Article-No.
Lift-off hinge 48	A17.5, left	59	8 g	1.62.348.17/17L
Lift-off hinge 48	A22.5, left	77	10 g	1.62.348.22/22L
Lift-off hinge 48	A25.0, left	87	15 g	1.62.348.25/25L
Lift-off hinge 48	A27.5, left	97	25 g	1.62.348.27/27L
Lift-off hinge 48	A32.5, left	115	35 g	1.62.348.32/32L



Combinations

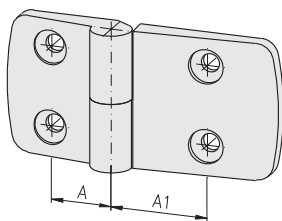
Description	A ¹⁾ A1 ¹⁾	Article-No.
Lift-off hinge 48 × □□/□□ left		1.62.348.□□/□□L

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

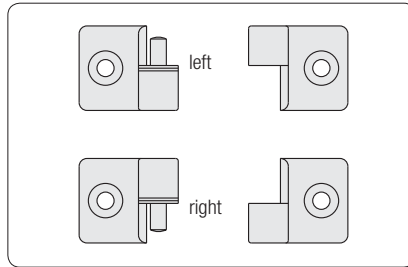
¹⁾ Data without decimal places

Hinges

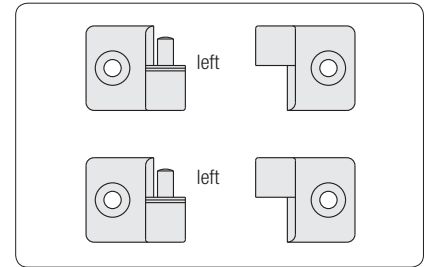


Application

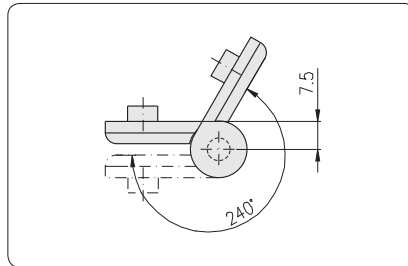
Hinge for doors and flaps of light material



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



Liftable door with two similar hinges



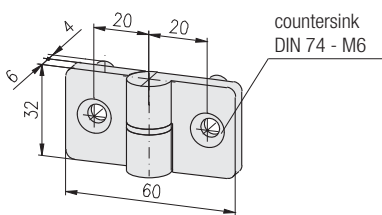
Swivel angle

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

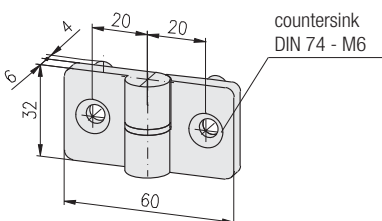
Hinge 32x60 left

Weight

21 g

Article-No.

1.62.41L



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

Description

Hinge 32x60 right

Weight

21 g

Article-No.

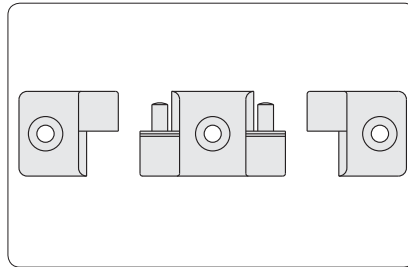
1.62.41R

Double hinge

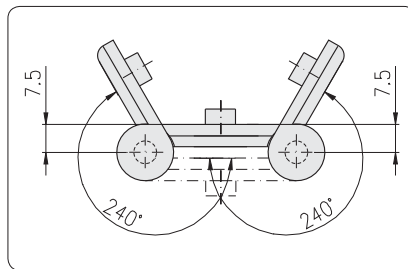


Application

Hinge for doors and flaps of light material



Liftable doors



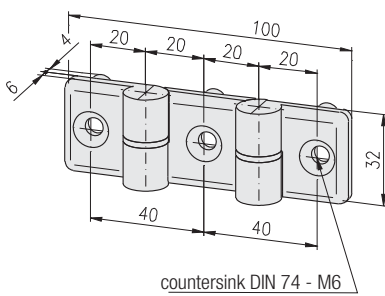
Swivel angle

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

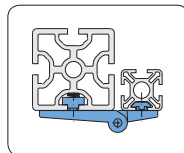
Description	Colour	Weight	Article-No.
Double hinge	grey	40 g	1.62.420.1
Double hinge	black	40 g	1.62.420.2

Hinges

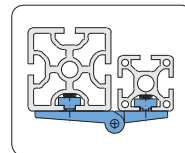


Application

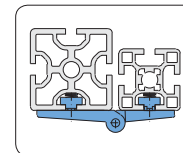
The hinges enable the connection of profiles with different widths



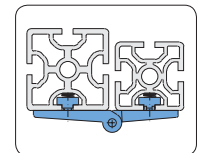
1 profile 60×60
1 profile 30×30



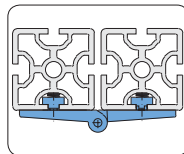
1 profile 60×60
1 profile 40×40



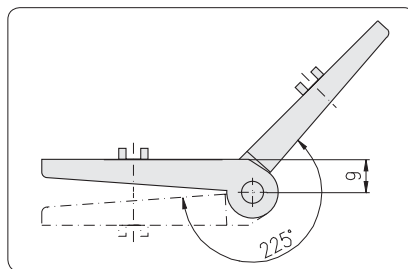
1 profile 60×60
1 profile 45×45



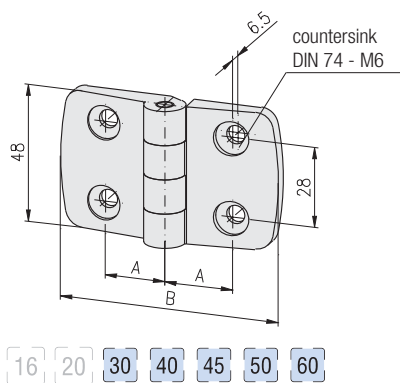
1 profile 60×60
1 profile 50×50



2 profiles 60×60



Swivel angle



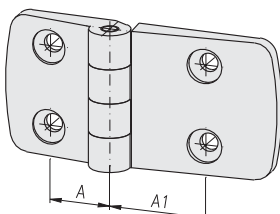
Technical data

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
30×60

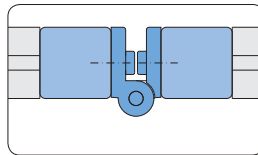


Application

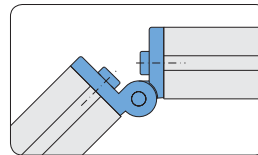
Hinge or higher loads such as doors with profile frames

Technical data

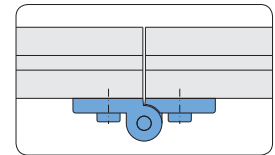
material: GD-Zn
 colour: black
 surface: coated
 max. static load: 400 N



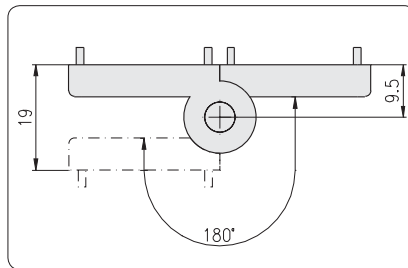
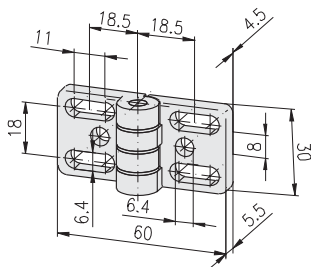
Connection of 2 vertical profiles, all anti-twist safety devices removed



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



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



Swivel angle

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

Description

Hinge 30×60

Weight

68.8 g

Article-No.

1.62.51030060

**Hinge
40×80**

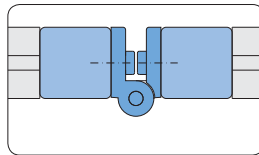


Application

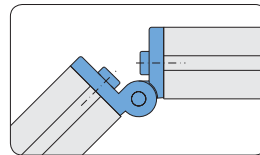
Hinge or higher loads such as doors with profile frames

Technical data

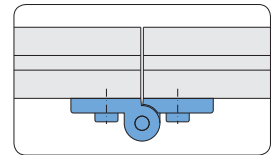
material: GD-Zn
 colour: black
 surface: coated
 max. static load: 750 N



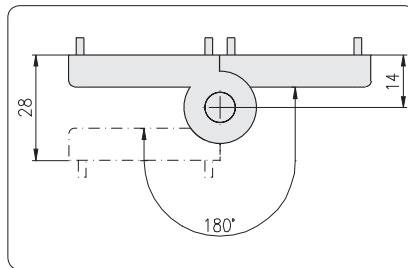
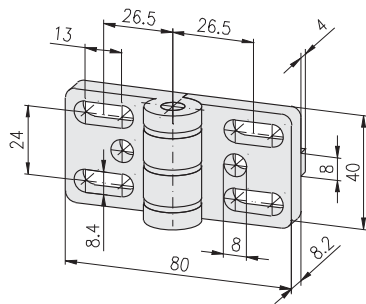
Connection of 2 vertical profiles, all anti-twist safety devices removed



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



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



Swivel angle

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

Description

Hinge 40×80

Weight

180 g

Article-No.

1.62.520

**Hinges
40×80**

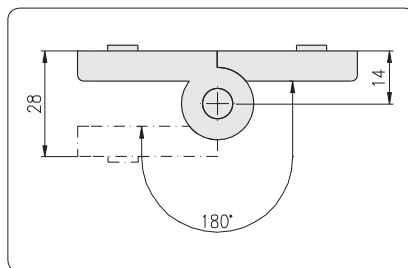


Application

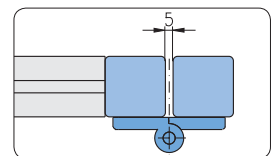
Hinge or higher loads such as doors with profile frames

Technical data

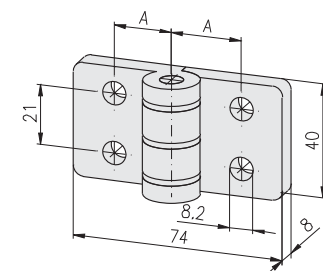
material: GD-Zn
 colour: black
 surface: powder-coated
 max. static load: 750 N



Swivel angle



Connection of 2 vertical profiles



Fastening elements:

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

Description

- Hinge 40×80 for PG 40
- Hinge 40×80 for PG 45

A

- 22.5
- 25.0

Weight

- 194 g
- 194 g

Article-No.

- 1.62.53045
- 1.62.53050

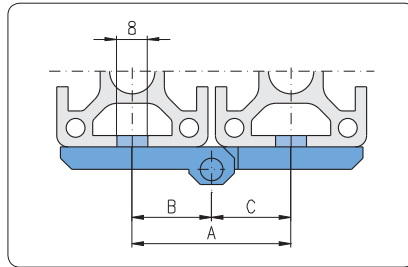
- 16
- 20
- 30
- 40
- 45
- 50
- 60

Hinges

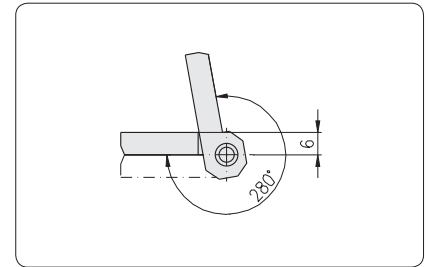


Application

Hinge with detachable fixing plug for different slot distances



Doors with profile frames



Swivel angle

Technical data

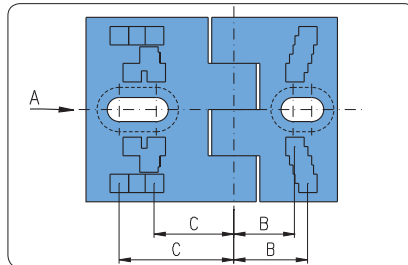
material: GD-Zn
 surface: coated
 colour: black
 max. static load: 250 N

Comments

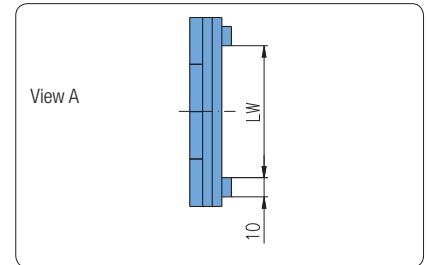
Countersink DIN 74 - M6 for
 countersunk screw DIN 7991 - M6

Delivery unit

Including 4 plugs for F- and E-slot



Distances for positioning plugs



Possibilities of fastening

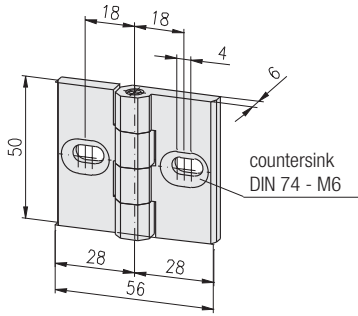
Legend

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

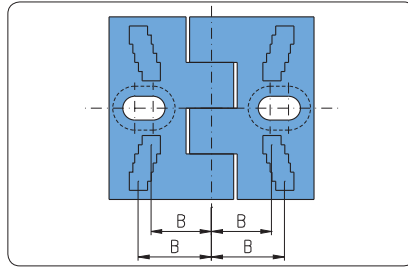
		short flange					
		slots					
		F		E3		E4	
B	LW	G	T	G	T	G	T
16.5	11	-	-	x	-	x	x
17.5	14.75	x	x	x	-	x	x
18.5	20.5	x	x	x	x	x	x
19	25.25	x	x	x	x	x	x
20	30	x	x	x	x	x	x

		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

Hinge 50x56

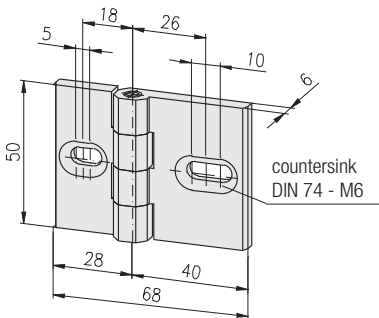
Weight

112 g

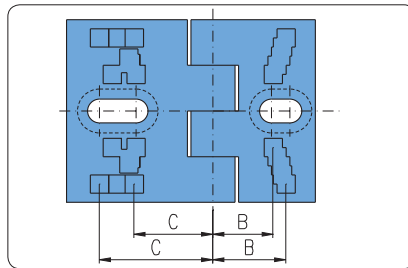
Article-No.

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

Hinge 50x68

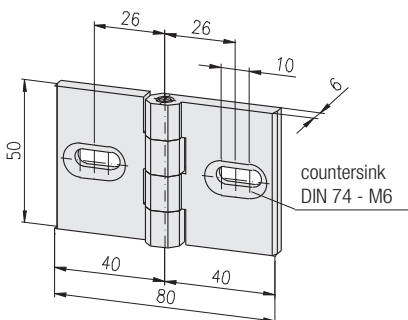
Weight

130 g

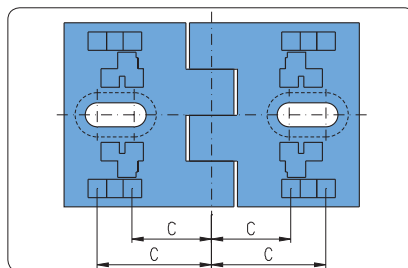
Article-No.

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

Hinge 50x80

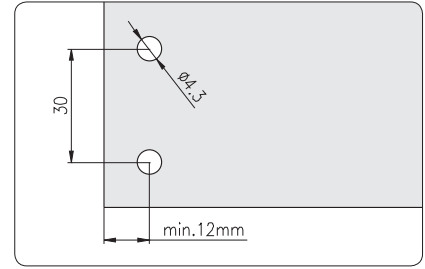
Weight

130 g

Article-No.

1.62.65080

Alu hinges



Distance of drill holes for panel elements of acrylic glass

Application

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

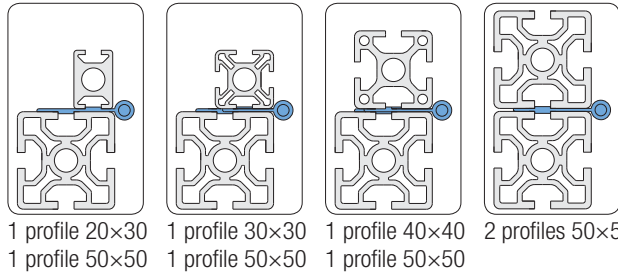
Technical data

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

Comments

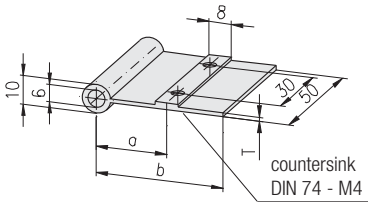
Countersink DIN 74 - M4 for
 countersunk screw DIN 7991 - M4
 raw finish on request

Type A



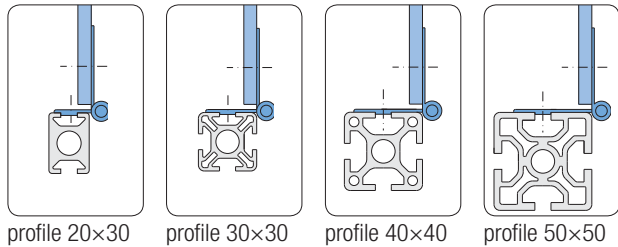
Connection:

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



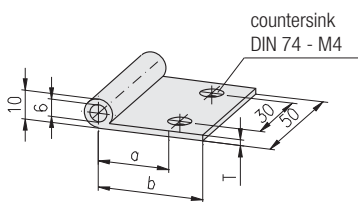
Description	T	a	b	Weight	Article-No.
Hinge element Type A, PG 20, F	1.5	15.3	21	10 g	1.62.7120
Hinge element Type A, PG 30	1.5	20.3	29	11 g	1.62.7130
Hinge element Type A, PG 30	3.0	20.3	29	15 g	1.62.7130.030
Hinge element Type A, PG 40	1.5	25.3	37	13 g	1.62.7140
Hinge element Type A, PG 40	3.0	25.3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



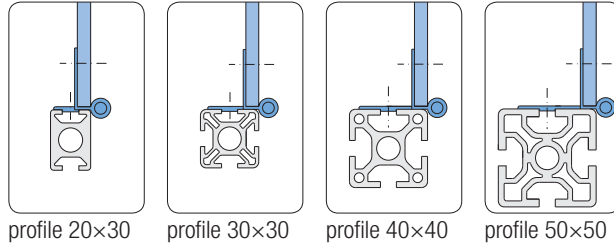
Connection:

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



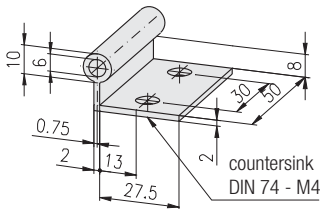
Description	T	a	b	Weight	Article-No.
Hinge element Type B, PG 20	2.0	15.3	21	11 g	1.62.7220
Hinge element Type B, PG 20	3.0	15.3	21	13 g	1.62.7220.030
Hinge element Type B, PG 30	2.0	20.3	29	11 g	1.62.7230
Hinge element Type B, PG 30	3.0	20.3	29	13 g	1.62.7230.030
Hinge element Type B, PG 40	2.0	25.3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

Hinge element Type C, 30 mm

Weight

15 g

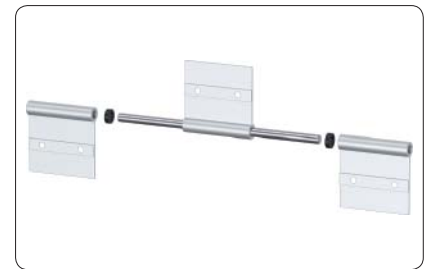
Article-No.

1.62.7330

Press-fit pins
for alu hinges



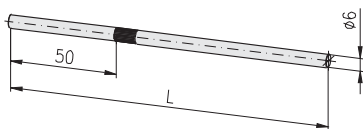
Press-fit pin for one sided installation



Press-fit pin for two sided installation

Technical data

material: steel
surface: galvanised



Description

Description	L
Press-fit pin $\varnothing 6$	100
Press-fit pin $\varnothing 6$	150

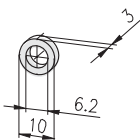
Weight

29 g
33 g

Article-No.

1.62.7910
1.62.7915

Spacer



Technical data

material: PE
colour: black

Description

Spacer

Weight

1 g

Article-No.

1.62.7810

Alu hinges, heavy



Application

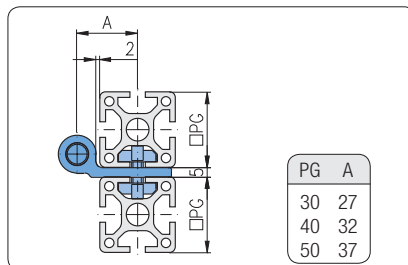
Hinge for higher loads such as doors with profile frames

Technical data

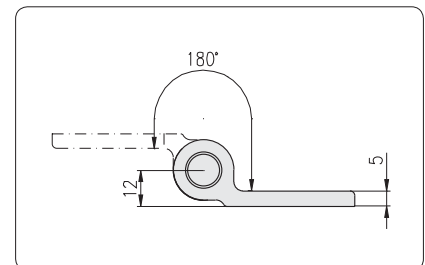
hinge material: aluminium
 strength: F25
 surface: natural anodised
 bolt material: steel
 stainless steel

Comments

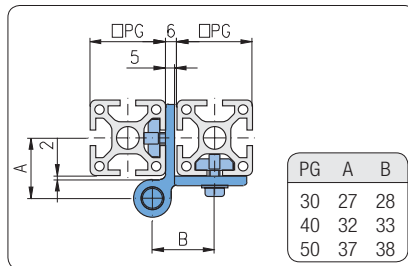
Countersink DIN 74 - M8 for
 countersunk screw DIN 7991 - M8
 raw finish on request



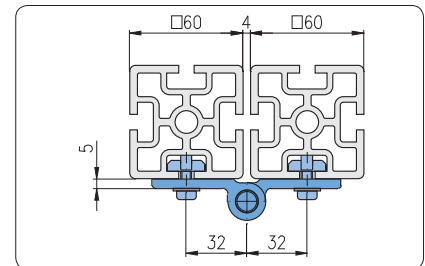
Application: Type 20



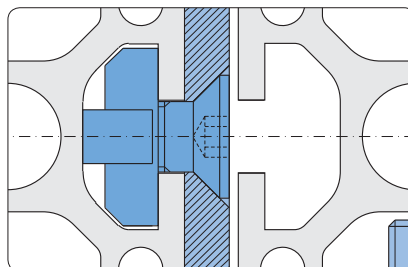
Swivel angle: Type 20



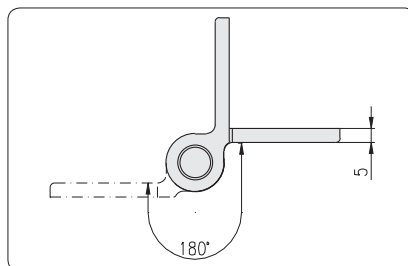
Application: Type 21, 22, 23, 31
 with profiles PG 40/50



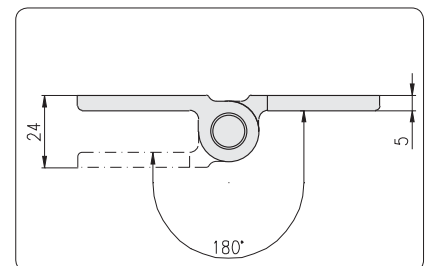
Application: Type 21, 22, 23, 31
 with profiles PG 60



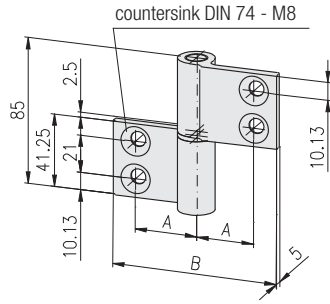
Application: Type 21, 22, 23, 31
 with profiles PG 30/40/50



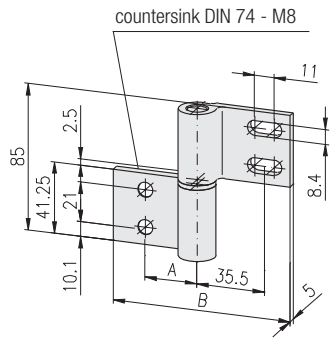
Swivel angle: Type 21, 22, 23, 31
 at application with profiles PG 30/40/50



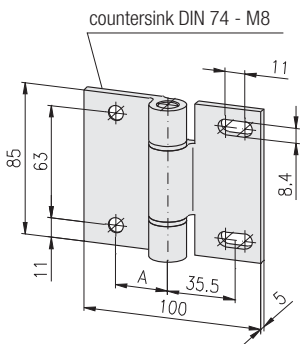
Swivel angle: Type 21, 22, 23, 31
 at application with profiles PG 60



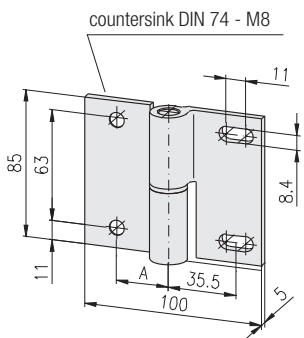
Description	Bolt	A	B	Weight	Article-No.
Alu hinge, heavy, type 20, PG 30	steel	27	78	130 g	1.62.842027085
Alu hinge, heavy, type 20, PG 40	steel	32	100	166 g	1.62.842032085
Alu hinge, heavy, type 20, PG 50	steel	37	100	166 g	1.62.842037085
Alu hinge, heavy, type 20, PG 30	stainless	27	78	130 g	1.62.842027085V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



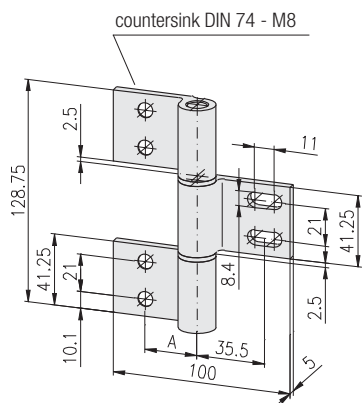
Description	Bolt	A	B	Weight	Article-No.
Alu hinge, heavy, type 21, PG 30/40-50	steel	27	89	123 g	1.62.842127085
Alu hinge, heavy, type 21, PG 40/40-50	steel	32	100	159 g	1.62.842132085
Alu hinge, heavy, type 21, PG 50	steel	37	100	159 g	1.62.842137085
Alu hinge, heavy, type 21, PG 30/40-50	stainless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



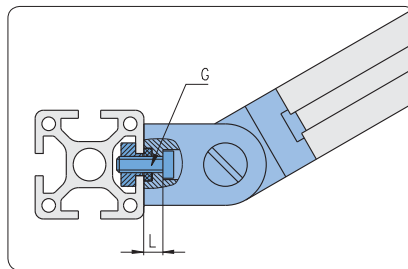
The joint can be locked with the adjustable clamping lever

Application

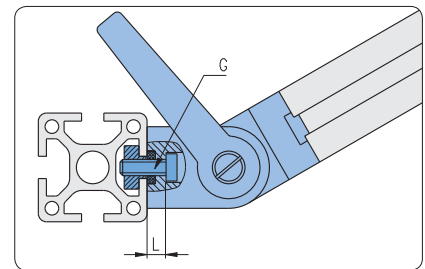
To enable infinitely variable adjusting and swivelling of profiles

Technical data

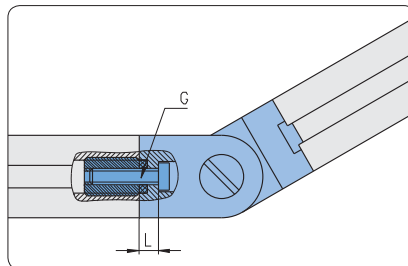
material: steel
surface: galvanised



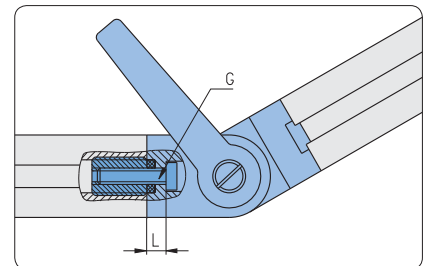
Mounting on profile side



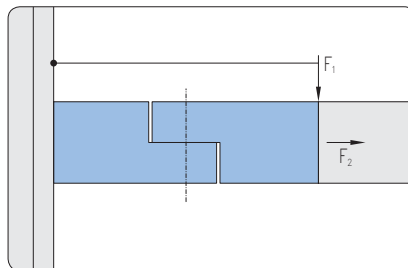
Mounting on profile side



Mounting on profile end



Mounting on profile end



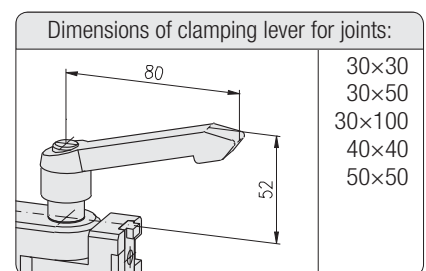
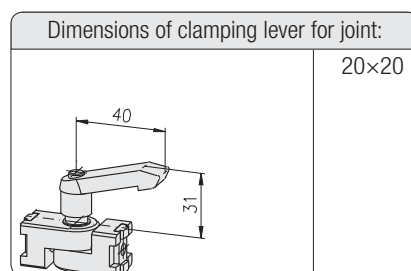
Joint	max. loads	
	F1 _{max}	F2 _{max}
20×20	10 Nm	2,000 N
30×30	30 Nm	4,000 N
30×50	50 Nm	4,000 N
30×100	100 Nm	8,000 N
30×100 ¹⁾	200 Nm	8,000 N
40×40	50 Nm	6,000 N
50×50	60 Nm	10,000 N

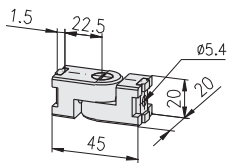
¹⁾ with fastening plate

Comments

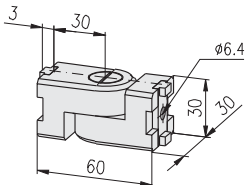
Mounting with:

- cap-screw DIN 6912
- washer DIN 433

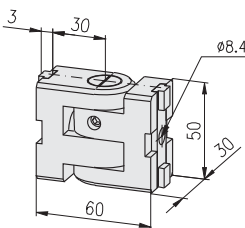


20×20


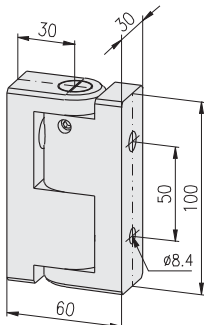
Description	G	L	Weight	Article-No.
Joint 20×20	M5	6.5	97 g	1.63.02021
Joint 20×20 with clamping lever	M5	6.5	114 g	1.63.12021
Anti-twist device for joint, H, L20			8 g	1.63.02022
Anti-twist device for joint, F, L20			8 g	1.63.02023

30×30


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

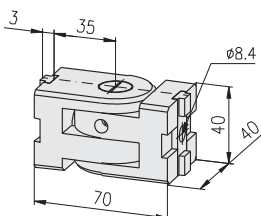
30×50


Description	G	L	Weight	Article-No.
Joint 30×50	M8	7.5	533 g	1.63.03051
Joint 30×50 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

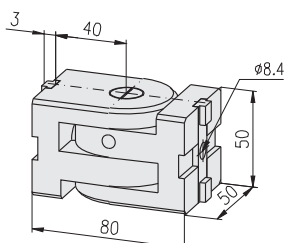
30×100

Comments

To increase the load capacity on hinge 30×100
 ➔ fastening plate 30×150, 1.47.60315

Description	G	L	Weight	Article-No.
Joint 30×100	M8	7.5	1,098 g	1.63.03101
Joint 30×100 with clamping lever	M8	7.5	1,160 g	1.63.13101

40×40


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

50×50


Description	G	L	Weight	Article-No.
Joint 50×50	M8	7.5	1,244 g	1.63.05051
Joint 50×50 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



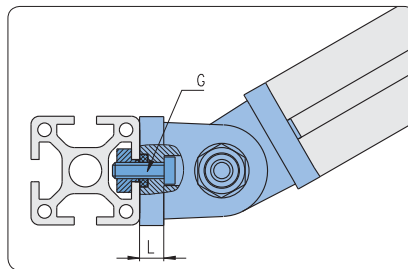
The joint can be locked with the adjustable clamping lever

Application

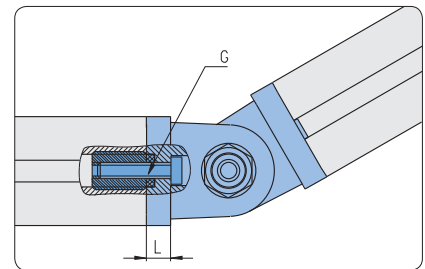
To enable infinitely variable adjusting and swivelling of profiles

Technical data

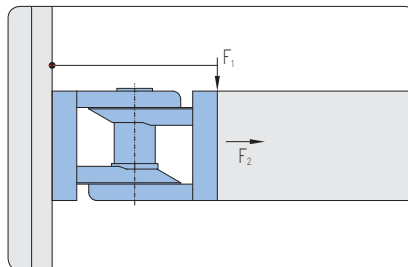
material: GD-Zn
surface: aluminium coloured powder-coated



Mounting on profile side



Mounting on profile end

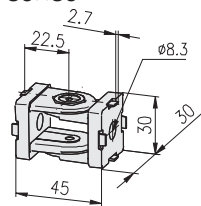


max. loads		
Joint	F1 _{max}	F2 _{max}
30×30	11.1 Nm	500 N
40×40	12.5 Nm	750 N
45×45	12.5 Nm	750 N

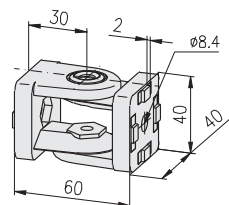
Comments

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

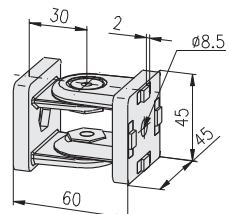
30×30



40×40



45×45



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

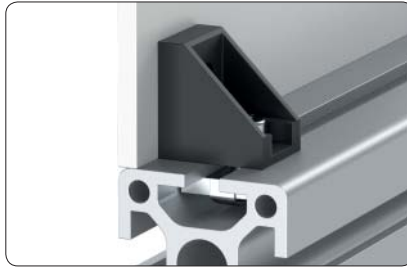
Description

	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**

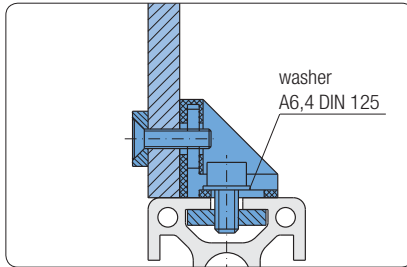


Application

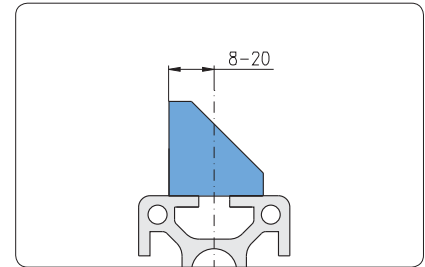
For mounting of panels

Technical data

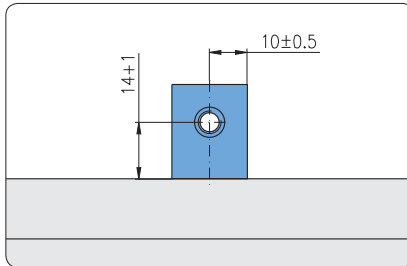
Mounting block
material: PA-GF
colours: grey, black
Threaded plate
material: steel
surface: galvanised



Mounting on the profile with threaded plate or T-Nut

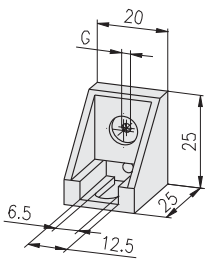


Adjustable position



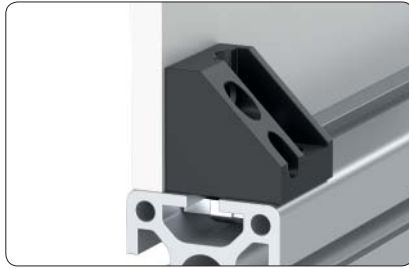
Comments

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



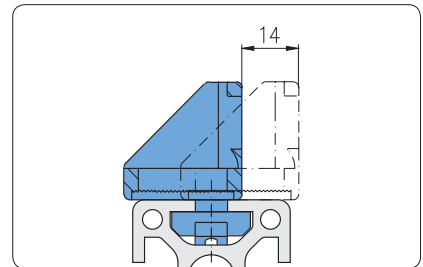
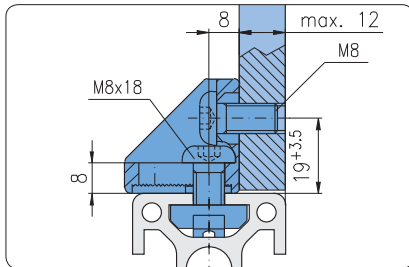
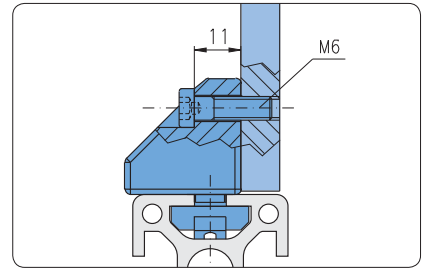
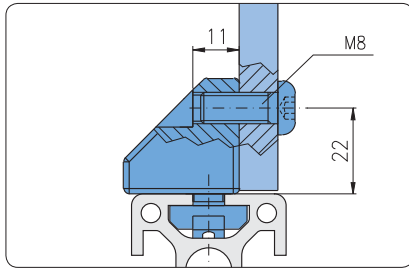
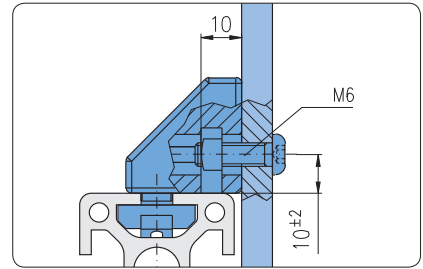
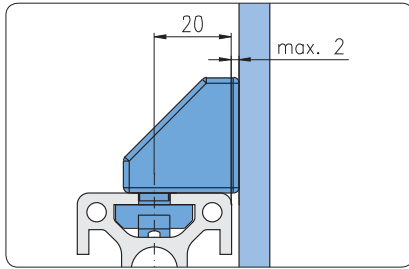
Description	G	Colour	Weight	Article-No.
Mounting block screw type	M3	grey	9 g	1.64.10M3.1
Mounting block screw type	M3	black	9 g	1.64.10M3.2
Mounting block screw type	M4	grey	9 g	1.64.10M4.1
Mounting block screw type	M4	black	9 g	1.64.10M4.2
Mounting block screw type	M5	grey	9 g	1.64.10M5.1
Mounting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

Mounting block GD-Zn

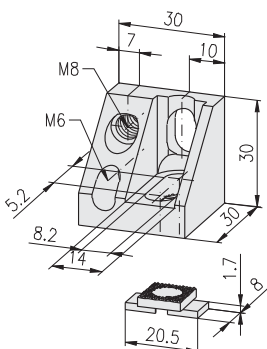
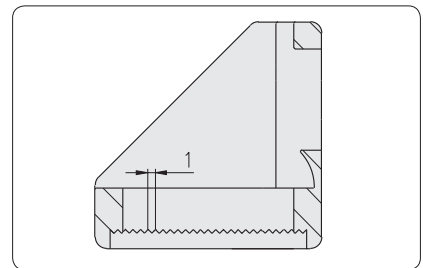


Application
For mounting of panels

Technical data
material: GD-Zn



Anti-twistable mounting in steps of 1 mm



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

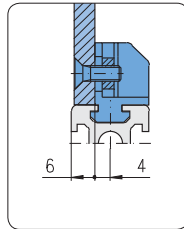
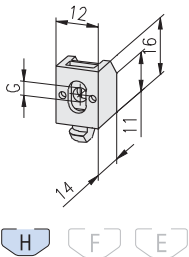
Mounting blocks for subsequent insertion



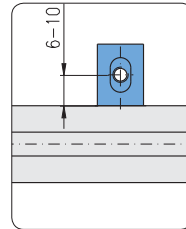
Application

For the mounting of panels with subsequent insertion
Variable mounting position of panels with distancing plate

Mounting block H



H-slot



Tolerance equalisation: 4 mm

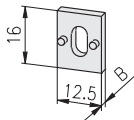
Technical data

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

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

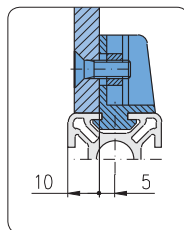
Technical data

material: PA-GF
colour: black

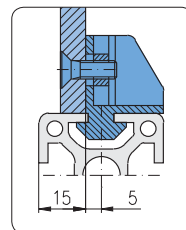


Description	B	Weight	Article-No.
Distancing plate for mounting block H	1	0.2 g	1.64.xH01
Distancing plate for mounting block H	2	0.4 g	1.64.xH02
Distancing plate for mounting block H	3	0.6 g	1.64.xH03
Distancing plate for mounting block H	4	0.8 g	1.64.xH04

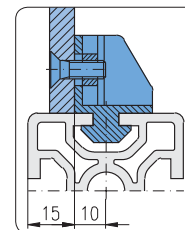
Mounting blocks F and E



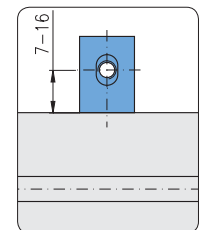
F-slot



E3-slot



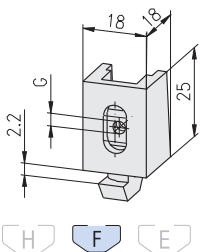
E4-slot



Tolerance equalisation: 9 mm

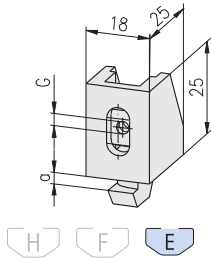
Technical data

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



Description	G	Colour	Weight	Article-No.
Mounting block F	M4	grey	9 g	1.64.2F2M4.1
Mounting block F	M4	black	9 g	1.64.2F2M4.2
Mounting block F	M5	grey	9 g	1.64.2F2M5.1
Mounting block F	M5	black	9 g	1.64.2F2M5.2
Mounting block F	M6	grey	9 g	1.64.2F2M6.1
Mounting block F	M6	black	9 g	1.64.2F2M6.2

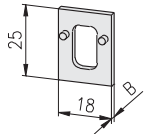
Mounting blocks E



Description	G	Colour	a	Weight	Article-No.
Mounting block E3	M4	grey	3.0	10.5 g	1.64.2E3M4.1
Mounting block E3	M4	black	3.0	10.5 g	1.64.2E3M4.2
Mounting block E3	M5	grey	3.0	10.1 g	1.64.2E3M5.1
Mounting block E3	M5	black	3.0	10.1 g	1.64.2E3M5.2
Mounting block E3	M6	grey	3.0	9.6 g	1.64.2E3M6.1
Mounting block E3	M6	black	3.0	9.6 g	1.64.2E3M6.2
Mounting block E4	M4	grey	4.0	10.6 g	1.64.2E4M4.1
Mounting block E4	M4	black	4.0	10.6 g	1.64.2E4M4.2
Mounting block E4	M5	grey	4.0	10.2 g	1.64.2E4M5.1
Mounting block E4	M5	black	4.0	10.2 g	1.64.2E4M5.2
Mounting block E4	M6	grey	4.0	9.9 g	1.64.2E4M6.1
Mounting block E4	M6	black	4.0	9.9 g	1.64.2E4M6.2

Technical data

material: PA-GF
colours: grey, black



Description	B	Colour	Weight	Article-No.
Distancing plate for mounting block FE	2	grey	0.5 g	1.64.2x02.1
Distancing plate for mounting block FE	2	black	0.5 g	1.64.2x02.2
Distancing plate for mounting block FE	3	grey	0.8 g	1.64.2x03.1
Distancing plate for mounting block FE	3	black	0.8 g	1.64.2x03.2
Distancing plate for mounting block FE	5	grey	1.3 g	1.64.2x05.1
Distancing plate for mounting block FE	5	black	1.3 g	1.64.2x05.2

Distancing plate, thin

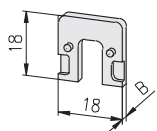
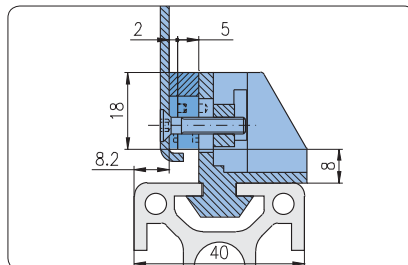


Application

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

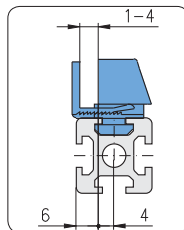


Application

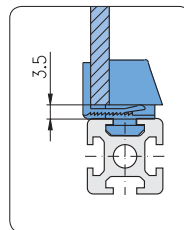
Mounting of panels with clamps, without drilling and screwing
 For subsequent insertion:
 Variable mounting position of panels with distance plates



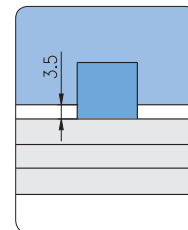
The distance plates are positioned and fastened by pins, it is possible to mount several distance plates in series



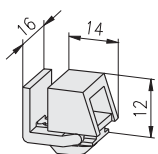
H-slot



Installation dimensions



Installation dimensions



Technical data

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

Description

Mounting clamp block H

Weight

3.4 g

Article-No.

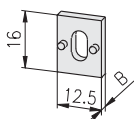
1.64.3H2

Technical data

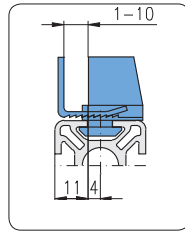
- material: PA-GF
- colour: black

Description

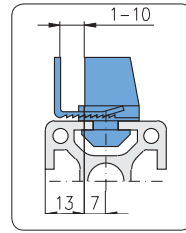
Description	B	Weight	Article-No.
Distancing plate for mounting clamp block H	1	0.2 g	1.64.xH01
Distancing plate for mounting clamp block H	2	0.4 g	1.64.xH02
Distancing plate for mounting clamp block H	3	0.6 g	1.64.xH03
Distancing plate for mounting clamp block H	4	0.8 g	1.64.xH04



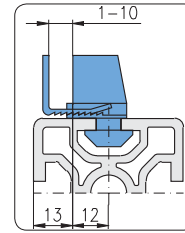
Mounting clamp blocks for subsequent insertion



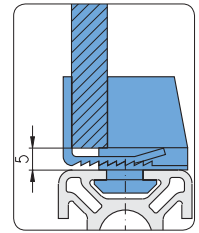
F-slot



E3-slot



E4-slot



Installation dimensions

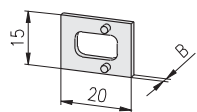
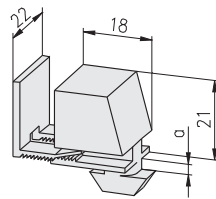
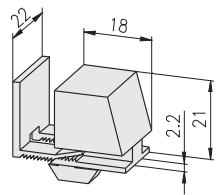
Technical data

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

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

B

2

Weight

0.6 g

Article-No.

1.64.3x02

Distancing plate for mounting clamp block FE

3

Weight

0.9 g

Article-No.

1.64.3x03

Distancing plate for mounting clamp block FE

5

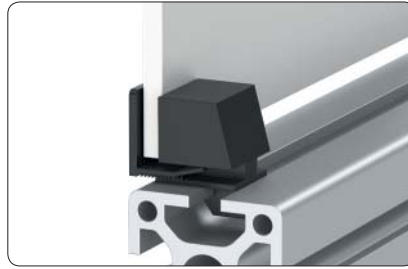
Weight

1.4 g

Article-No.

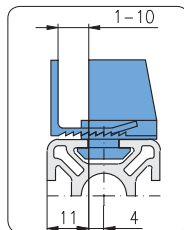
1.64.3x05

Mounting clamp blocks SL for subsequent insertion

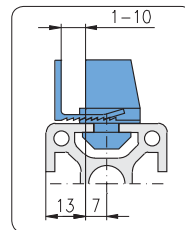


Application

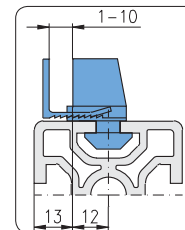
As mounting clamp block, however: For safety's sake it is only possible to be opened with special tools



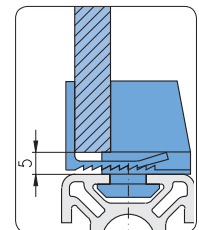
F-slot



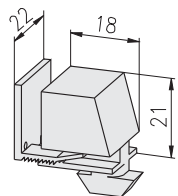
E3-slot



E4-slot



Installation dimensions



Technical data

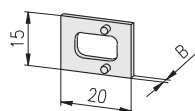
- material: PA-GF
- colour: black
- max. static load:
 - towards clamp block: 250 N
 - towards slider: 50 N

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

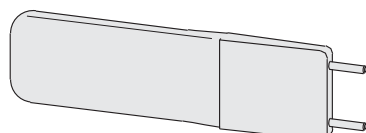


Description

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

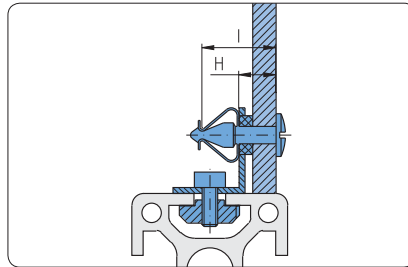


Application

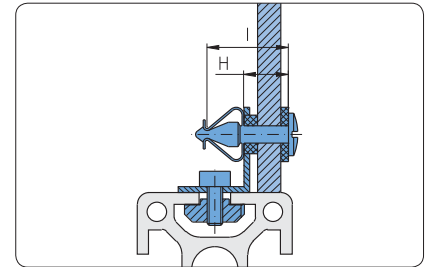
Mounting element for quick mounting and dismounting of covers

Comments

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



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

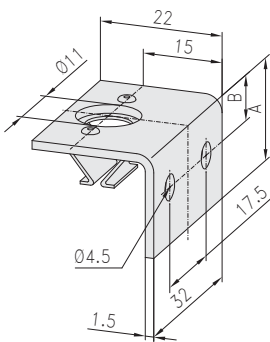


Fastening with washer
 $H_{max} = S_{retaining\ ring} + \text{panel thickness} + S_{washer}$

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:

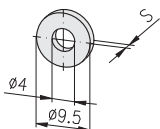
- F-slot:
- T-Nut, with leaf spring F, 2xM4 1.32.4F2M4.25
 - threaded plate F, M4 1.31.FM4
 - spring nut F, M4 1.33.FM4
 - T-slot nut F, M4 1.34.10FM4
- E-slot:
- T-Nut, with leaf spring E, 2xM4 1.32.4E2M4.25
 - spring nut E, M4 1.33.EM4
 - T-slot nut E, M4 1.34.10EM4
 - rhomboid T-slot nut E, M4 1.34.20EM4

Description	A	B	Weight	Article-No.
Mounting angle	18.3	8.9	14,6 g	1.64.5101
Mounting angle	24.5	14.7	16,4 g	1.64.5102
Mounting angle	29.8	18.9	19,0 g	1.64.5103

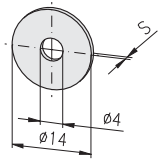
Retaining rings

Technical data

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

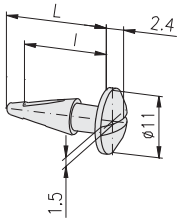


Description	S	Weight	Article-No.
Retaining ring	1.7	1.3 g	1.64.5217
Retaining ring	2.5	1.8 g	1.64.5225
Retaining ring	4.0	3.5 g	1.64.5240
Retaining ring	5.0	4.0 g	1.64.5250
Retaining ring	6.0	4.5 g	1.64.5260

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

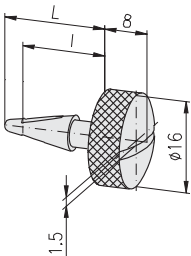
Round head bolts

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

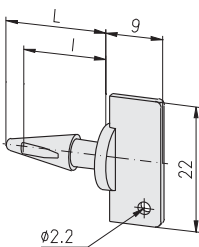
Knurled head bolts

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

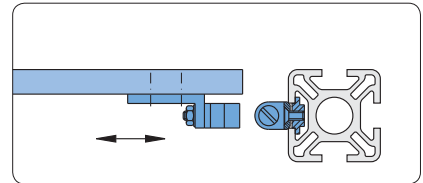
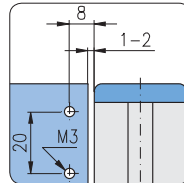
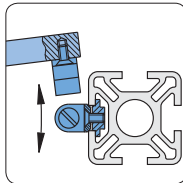
Description	H _{max}	L	I	Weight	Article-No.
Wing head bolt	3.7	16.6	14.4	5.8 g	1.64.5616
Wing head bolt	4.7	17.6	15.4	5.8 g	1.64.5617
Wing head bolt	5.7	18.6	16.4	5.8 g	1.64.5618
Wing head bolt	6.9	19.8	17.6	5.8 g	1.64.5619
Wing head bolt	7.7	20.6	18.4	6.3 g	1.64.5620
Wing head bolt	8.9	21.8	19.6	6.3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

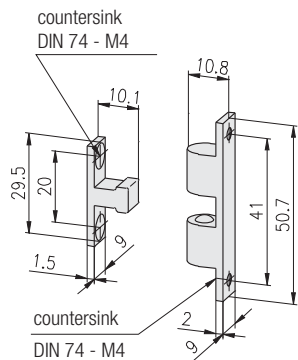


Technical data

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

Comments

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



Description

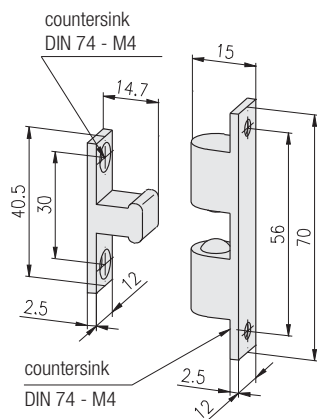
Bullet catch 9x50

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.

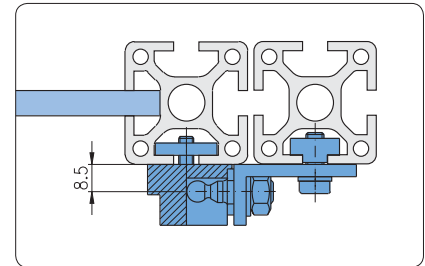
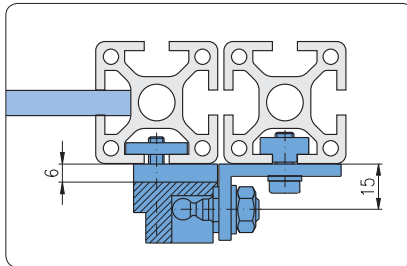
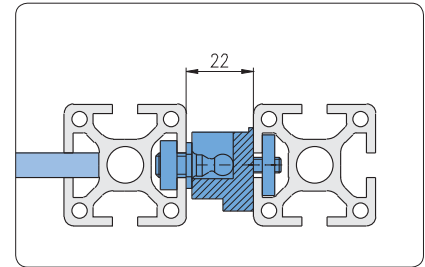
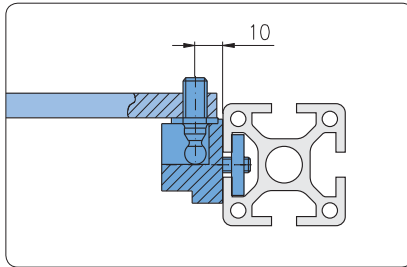
1.65.1102

Bullet catch PA



Application

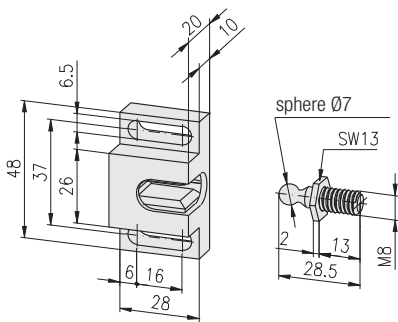
Lock for swinging and sliding doors



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

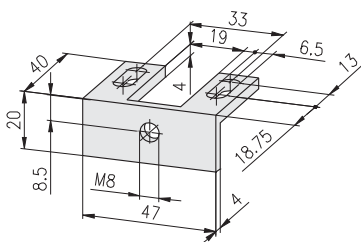


Technical data

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

Lock GD-Zn

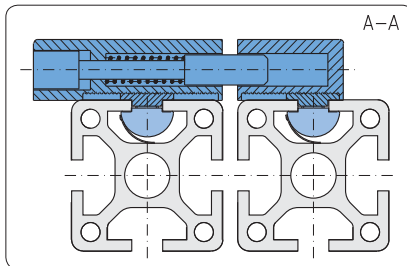


Application

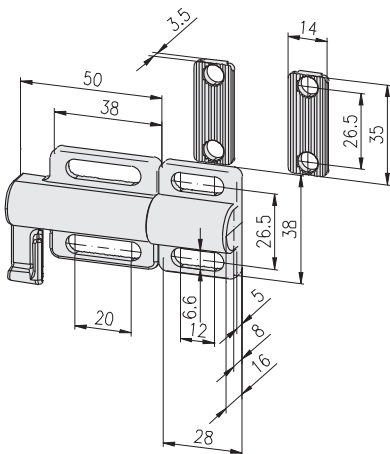
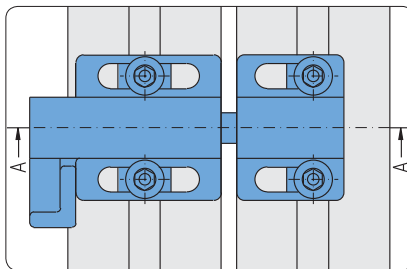
Lock with sprung bolt for easy closing of doors and panels, including separate slot fastening capability

Technical data

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



Slot fastening capability



Description

Lock GD-Zn

Weight

120.0 g

Article-No.

1.65.2538078

Cylinder locks



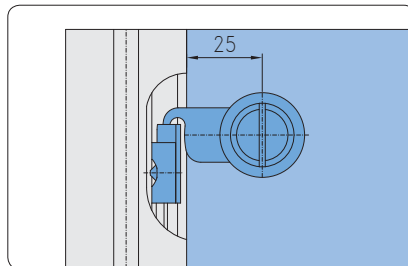
Application

Locking system for swinging and sliding doors

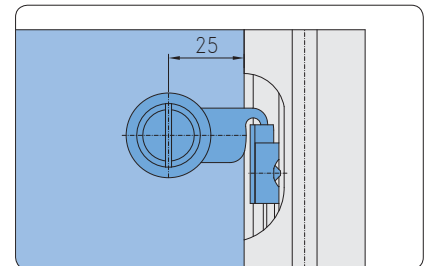
Technical data

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

Mounting position

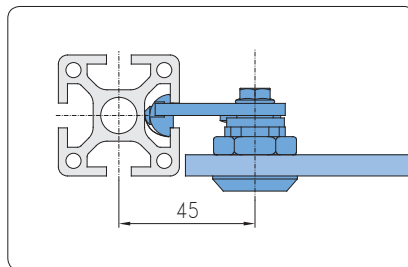


Left, with tongue left, latch left

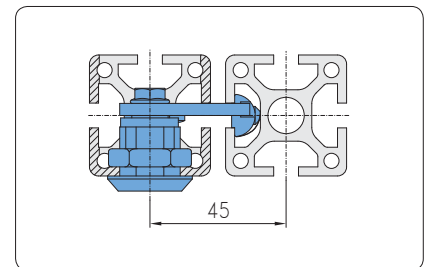


Right, with tongue right, latch right

Mounting variants

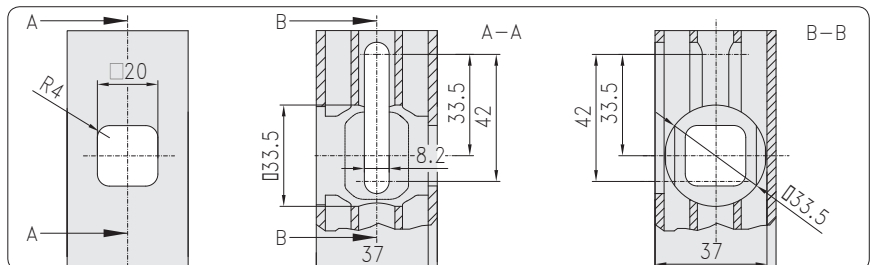
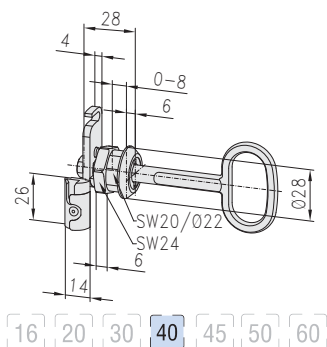
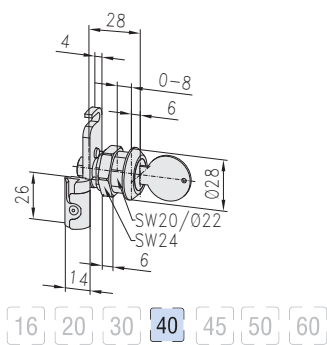


Swinging door without profile frame mounting position left



Swinging door with profile frame made of profile 40x40, mounting position right

Installation dimensions



Description

Description	Weight	Article-No.
Cylinder lock with 2 keys, left	82.0 g	1.65.3101.L
Cylinder lock with 2 keys, right	82.0 g	1.65.3101.R

Comments

Key with double beard Ø8 mm

Description

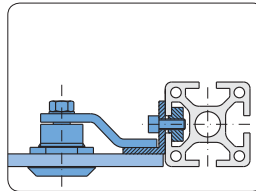
Description	Weight	Article-No.
Cylinder lock with double beard insert, left	100.0 g	1.65.3102.L
Cylinder lock with double beard insert, right	100.0 g	1.65.3102.R

Cylinder locks with security latch

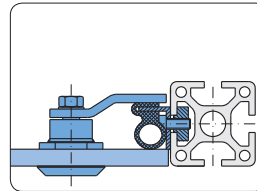


Application
Lock for swinging door

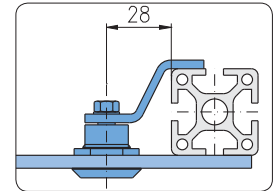
Comments
Security latch
Jolting- and vibrationless by integral lock



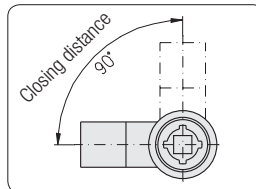
Installation variant with mounting angle



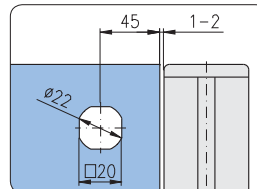
Installation variant with seal



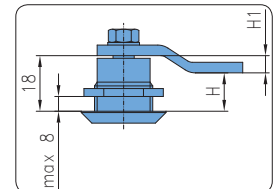
Installation variant



Closing distance

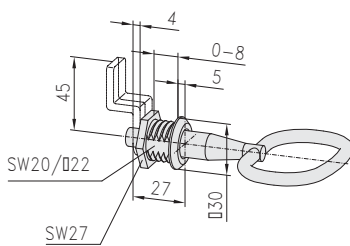
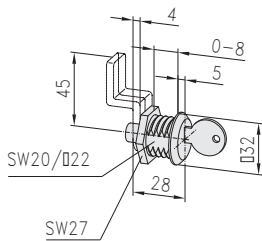


Drilling pattern



Security latch dimension
H1 = 18 - H

Cylinder locks



Technical data

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

Description

Cylinder lock with 2 keys, without security latch

Weight

66 g

Article-No.

1.65.3201

Comments

Socket wrench / square 8 mm

Description

Cylinder lock with 1 square key, without security latch

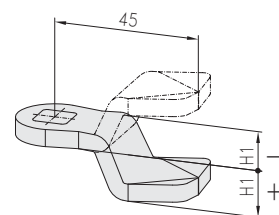
Weight

100 g

Article-No.

1.65.3202

Security latches



Description	H1	Weight	Article-No.
Security latch 45	14	29.5 g	1.65.3204
Security latch 45	12	28.5 g	1.65.3206
Security latch 45	10	27.5 g	1.65.3208
Security latch 45	8	27.0 g	1.65.3210
Security latch 45	5	26.5 g	1.65.3213
Security latch 45	4	26.0 g	1.65.3214
Security latch 45	2	27.0 g	1.65.3216
Security latch 45	0	26.5 g	1.65.3218
Security latch 45	-2	26.5 g	1.65.3220
Security latch 45	-4	26.0 g	1.65.3222
Security latch 45	-6	26.5 g	1.65.3224
Security latch 45	-7	27.5 g	1.65.3225
Security latch 45	-8	28.0 g	1.65.3226

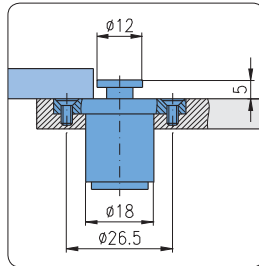
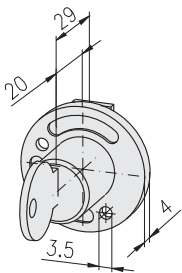
Description	H1	Weight	Article-No.
Security latch 45	-10	26.5 g	1.65.3228
Security latch 45	-12	27.5 g	1.65.3230
Security latch 45	-14	28.5 g	1.65.3232
Security latch 45	-16	32.0 g	1.65.3234
Security latch 45	-17	34.5 g	1.65.3235
Security latch 45	-18	33.5 g	1.65.3236
Security latch 45	-20	35.0 g	1.65.3238
Security latch 45	-22	35.5 g	1.65.3240
Security latch 45	-24	36.0 g	1.65.3242
Security latch 45	-26	37.5 g	1.65.3244
Security latch 45	-27	36.0 g	1.65.3245
Security latch 45	-29	38.0 g	1.65.3247
Security latch 45	-32	39.0 g	1.65.3250

Flap-lock countersunk for sliding door

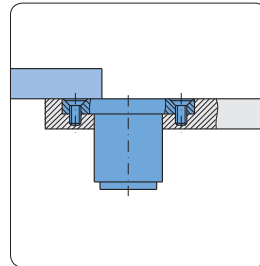


Application
Lock for sliding door

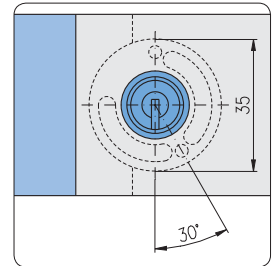
Technical data
capsule: GD Zn, chrome-plated
tongue and nut: steel, galvanised



Locked



Open



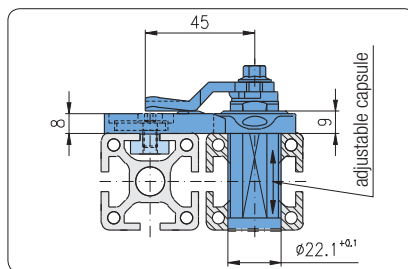
Description	Weight	Article-No.
Flap-lock countersunk, for sliding door	52 g	1.65.3301

Cylinder locks flush

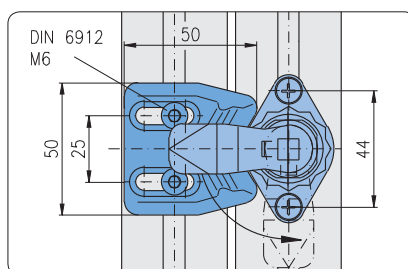
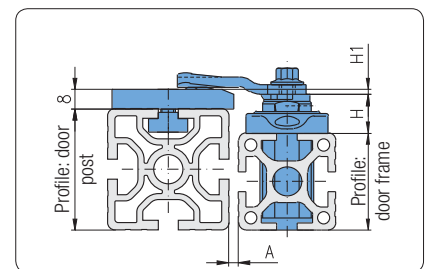


Application
Locking system for swinging doors

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



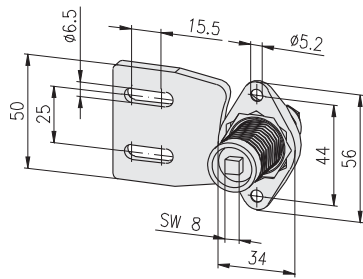
Outside: flush
(without jutout of lock parts)



Inside: with fixing plate

Profile		Latch		
Door post	Door frame	A	H	H1
40	40	1.6	16	-8
	45	1.6	16	-2
50	45	1.8	21	-12
	50	2.0	16	-8
	60	3.0	16	-8

Cylinder locks flush



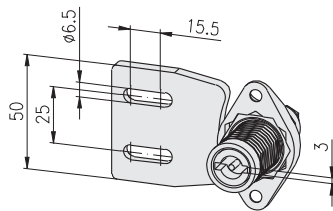
Delivery unit

- 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

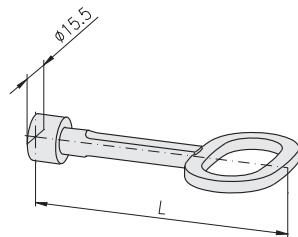
- cylinder lock with fixing plate

Separate order

- key
- security latch

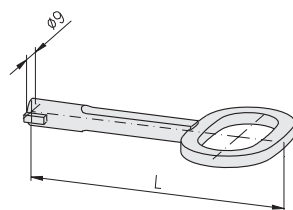
Description	GL	Weight	Article-No.
Cylinder lock flush, double beard	56	193.8 g	1.65.34356
Cylinder lock flush, double beard	66	204.1 g	1.65.34366
Cylinder lock flush, double beard	76	214.4 g	1.65.34376

Square keys



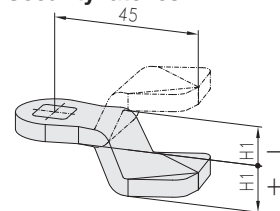
Description	L	Material	Weight	Article-No.
Square key 8, 40 mm		PA-GF	7.5 g	1.65.34540
Square key 8, 81 mm		GD Zn	41.6 g	1.65.34581

Double beard keys

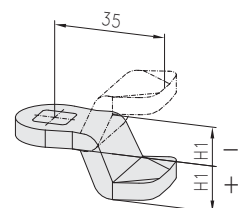


Description	L	Material	Weight	Article-No.
Double beard key 3, 40 mm		PA-GF	6.4 g	1.65.34740
Double beard key 3, 89 mm		GD Zn	35.8 g	1.65.34789

Security latches



Description	H1	Weight	Article-No.
Security latch 45	12	30.3 g	1.65.3206
Security latch 45	2	26.8 g	1.65.3216
Security latch 45	-2	27.4 g	1.65.3220
Security latch 45	-8	27.3 g	1.65.3226
Security latch 45	-12	30.3 g	1.65.3230



Description	H1	Weight	Article-No.
Security latch 35	2	20.4 g	1.65.3493502.1
Security latch 35	-2	20.1 g	1.65.3493502.2
Security latch 35	-8	22.5 g	1.65.3493508.2
Security latch 35	12	22.9 g	1.65.3493512.1
Security latch 35	-12	22.9 g	1.65.3493512.2

Mortise deadlocks



Application

Door locks for doors with profile frames made from profiles 40×40 and 45×45

Technical data

mortise deadlock: steel, galvanised
 screws and threaded plates: steel, galvanised
 lock insert: GD-Zn, galvanised
 rosette: LM, natural anodised
 case: Al Mg Si 0.5 F25, natural anodised



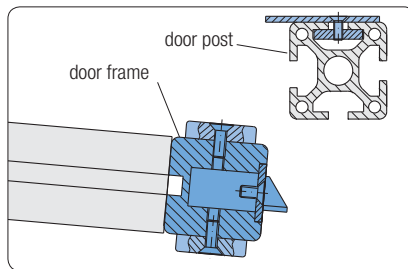
Door lock without lock insert and handles both sides



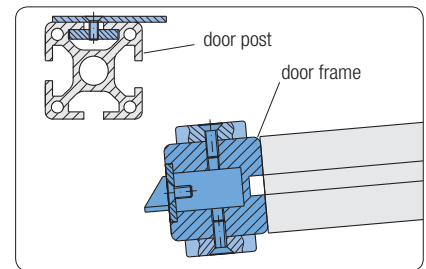
Door lock with cylinder lock and handles both sides



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

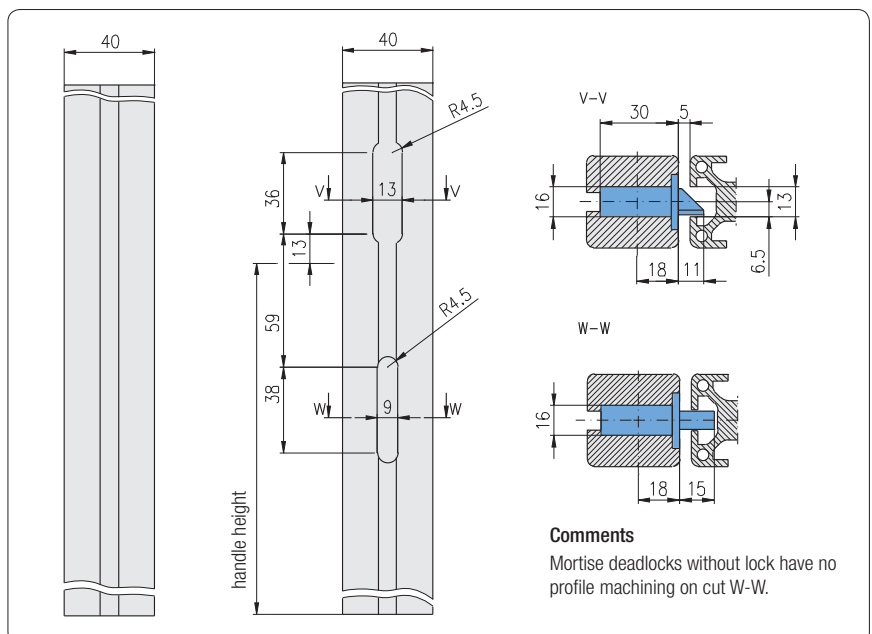


Mounting position left



Mounting position right

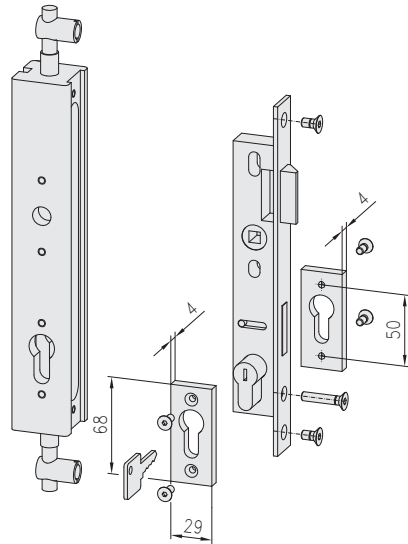
Profile machining
for door post



Comments

Mortise deadlocks without lock have no profile machining on cut W-W.

Mortise deadlock installation sets
with lock



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

Comments

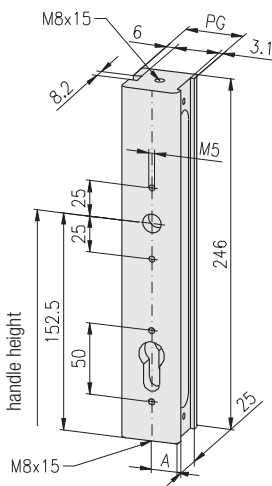
Drawing shows mounting position left, mirror image mounting position right

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

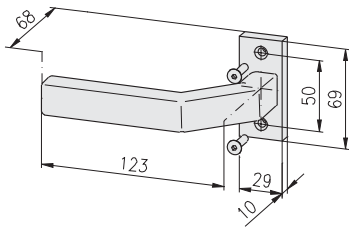
Description	Pcs.	Weight	Article-No.
Mortise deadlock case with lock PG 40	1	620 g	1.65.4102x40
Mortise deadlock case with lock PG 45	1	740 g	1.65.4102x45
Mortise deadlock left, PG 40	1	412 g	1.65.4211L40
Mortise deadlock right, PG 40	1	412 g	1.65.4211R40
Mortise deadlock left, PG 45	1	430 g	1.65.4211L45
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
Mortise deadlock case with lock mounting position L/R, PG 45	20	32	740 g	1.65.4102x45

Door handle



Technical data

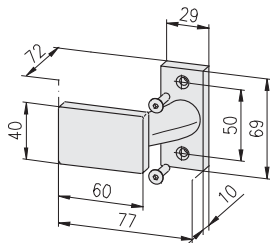
material: LM
surface: natural anodised

Description	Weight	Article-No.
Door handle set	166 g	1.65.4220

Single parts

Description	Pcs.	Weight	Article-No.
Handle with rosette	1	160 g	1.65.4221
Countersunk screw DIN 7991 - M5×20	2	3 g	0.63.D07991.05020

Door knob



Technical data

material: LM
surface: natural anodised

Comments

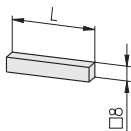
Door knob fixed

Description	Weight	Article-No.
Door knob set	178 g	1.65.4230

Single parts

Description	Pcs.	Weight	Article-No.
Door knob with rosette	1	172 g	1.65.4231
Countersunk screw DIN 7991 - M5×20	2	3 g	0.63.D07991.05020

Push pins



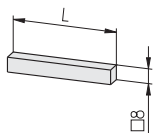
Technical data

material: steel
surface: galvanised

Comments

Stop pin for 1 door handle variant only

Description	L	Weight	Article-No.
Push pin for 1 door handle, PG 40	56	28 g	1.65.425140
Push pin for 1 door handle, PG 45	58.5	29 g	1.65.425145



Description	L	Weight	Article-No.
Push pin for 2 door handles, PG 40	94	54 g	1.65.425240
Push pin for 2 door handles, PG 45	99	57 g	1.65.425245

Bar locks



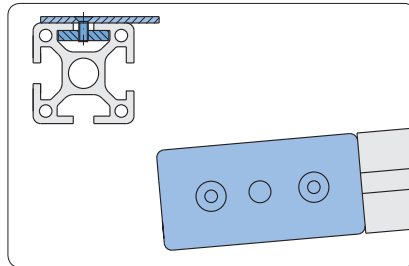
Bar lock with olive



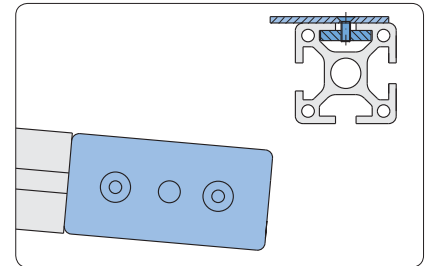
Bar lock with socket wrench

Application

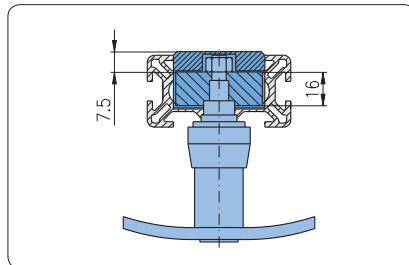
Lock for large doors made of profile 30×60 or 40×80, with pin arrest on top and bottom side



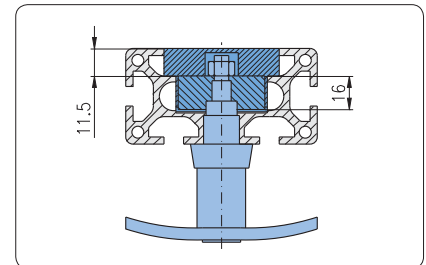
Mounting position right



Mounting position left

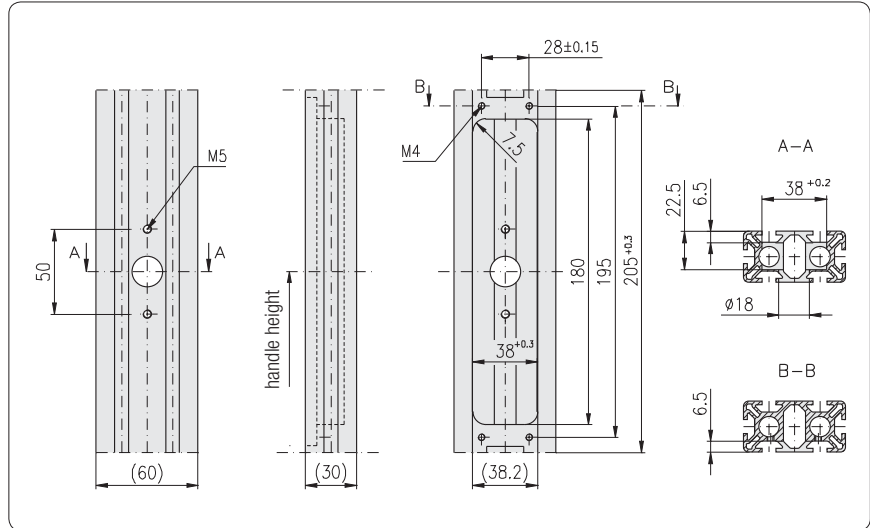
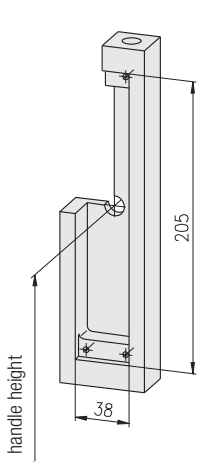


Mounting in profile 30×60



Mounting in profile 40×80

Profile machining 30×60
for bar lock



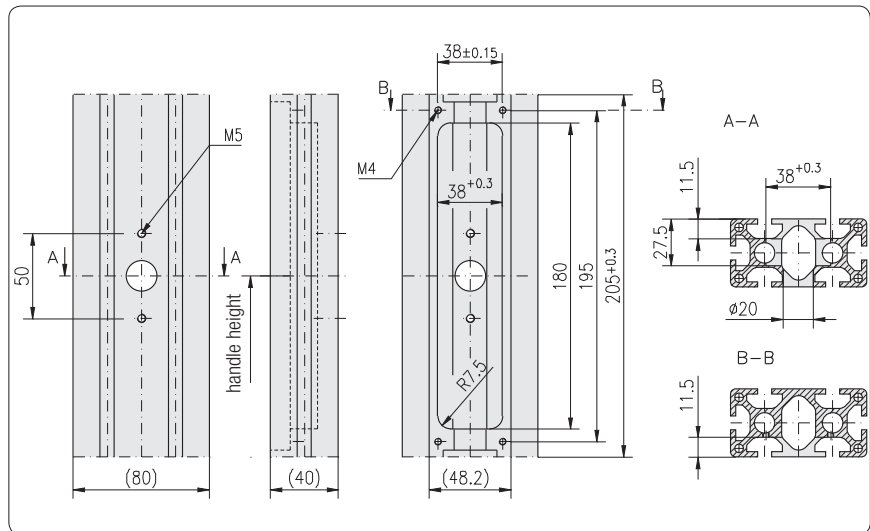
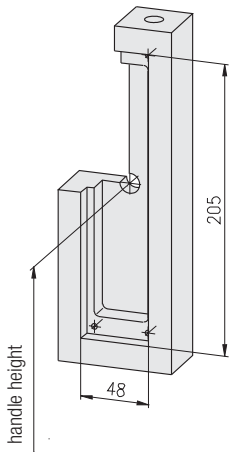
Description

Profile machining 30×60 for bar lock

Article-No.

1.65.5110

Profile machining 40×80
for bar lock



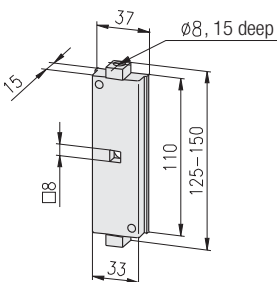
Description

Profile machining 40×80 for bar lock

Article-No.

1.65.5120

Bar locks



Technical data

material: steel
surface: galvanised

Description

Bar lock, left side
Bar lock, right side

Weight

230 g
230 g

Article-No.

1.65.5210L
1.65.5210R

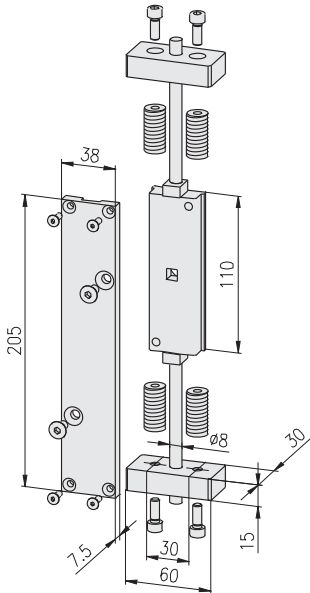
Bar locks

Technical data

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

Assembly accessories 30×60

for bar lock



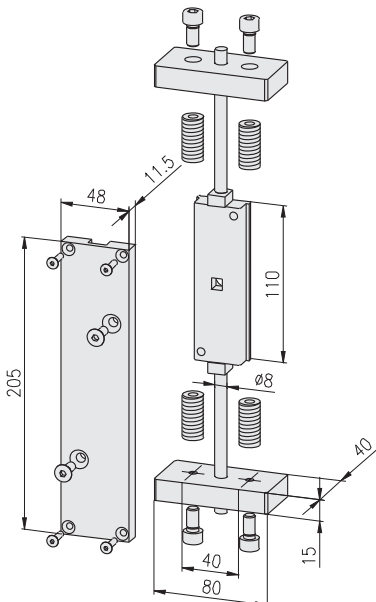
Description	Weight	Article-No.
Assembly accessories 30×60 for bar lock	590 g	1.65.5310

Single parts

Description	Pcs.	Weight	Article-No.
Cover plate 30×60	1	100 g	1.65.5311
Countersunk screw DIN 7991 - M4×12	4	1 g	0.63.D07991.04012
Countersunk screw DIN 7991 - M6×12	2	3 g	0.63.D07991.06012
Front plate 30×60	2	50 g	1.65.5312
Threaded insert M14/M6	4	22 g	1.35.1140615
Cap-screw DIN 912 - M6×16	4	5 g	0.63.D00912.06016
Bar, L1000	2	136 g	1.65.5313

Assembly accessories 40×80

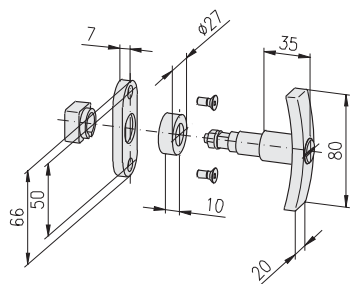
for bar lock



Description	Weight	Article-No.
Assembly accessories 40×80 for bar lock	800 g	1.65.5320

Single parts

Description	Pcs.	Weight	Article-No.
Cover plate 40×80	1	225 g	1.65.5321
Countersunk screw DIN 7991 - M4×16	4	2 g	0.63.D07991.04016
Countersunk screw DIN 7991 - M6×16	2	4 g	0.63.D07991.06016
Front plate 40×80	2	90 g	1.65.5322
Threaded insert M14/M8	4	18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	4	9 g	0.63.D00912.08016
Bar, L1000	2	136 g	1.65.5313

Olive installation set
for bar lock

Technical data

material: GD-Zn, chrome-plated

Comments

Execution for profile 30×60 = with rosette

Execution for profile 40×80 = without rosette

Description	Weight	Article-No.
Olive installation set for bar lock without lock, for profile 30×60	166 g	1.65.5410
for profile 40×80	160 g	1.65.5420
Olive installation set for bar lock with lock, for profile 30×60	175 g	1.65.5510
for profile 40×80	169 g	1.65.5520

Single parts

Description	Pcs.	Weight	Article-No.
Olive without lock	1	122 g	1.65.5431
Olive with lock, incl. 2 keys	1	120 g	1.65.5531
Rosette	1	8 g	1.65.5432
Countersunk screw DIN 7991 - M5×12	2	2 g	0.63.D07991.05012

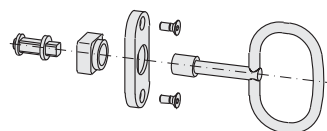
Lock mounting set
Technical data

lock insert: GD-Zn, galvanised

key: GD-Zn, galvanised

rosette: LM, natural anodised

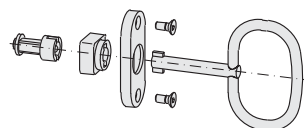
key catch: PVC, grey

with square key
for bar lock


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

Single parts

Description	Pcs.	Weight	Article-No.
Lock insert	1	16 g	1.65.5601
Key catch	1	3 g	1.65.5602
Rosette	1	8 g	1.65.5432
Square key 8 mm	1	42 g	1.65.34581
Countersunk screw DIN 7991 - M5×12	2	2 g	0.63.D07991.05012

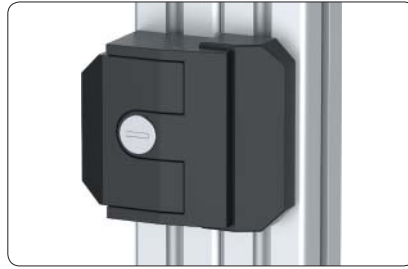
with double beard key
for bar lock


Description	Weight	Article-No.
Lock mounting set with double beard key for bar lock	73 g	1.65.5700

Single parts

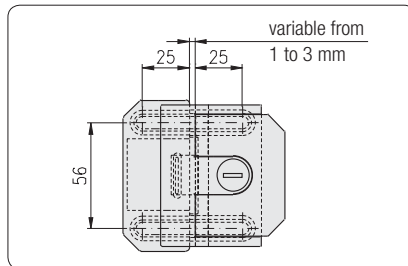
Description	Pcs.	Weight	Article-No.
Lock insert	1	16 g	1.65.5701
Key catch	1	3 g	1.65.5702
Rosette	1	8 g	1.65.5432
Double beard key Ø3	1	42 g	1.65.34789
Countersunk screw DIN 7991 - M5×12	2	2 g	0.63.D07991.05012

Latch locks

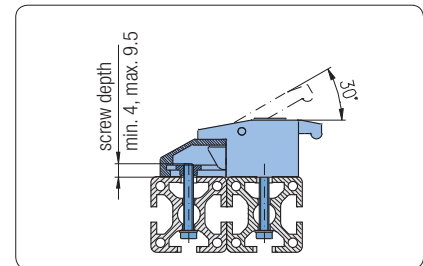


Application

Door lock with small jutout



Installation dimensions



Installation dimensions

Technical data

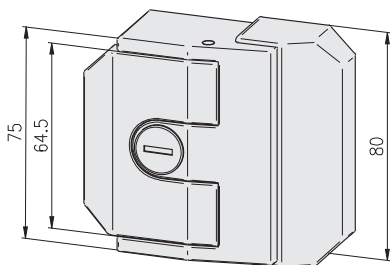
- material:
- capsule: GDZn black coated
 - trap: GDZn rough
 - nut: steel galvanised

Mounting elements

- cap-screw DIN 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

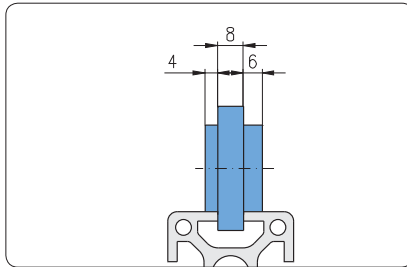
Description	Weight	Article-No.
Latch lock without lock	560 g	1.65.6010
Latch lock with lock, all keyed alike	560 g	1.65.6020
Latch lock with lock, keyed different	560 g	1.65.6030

Roller 39

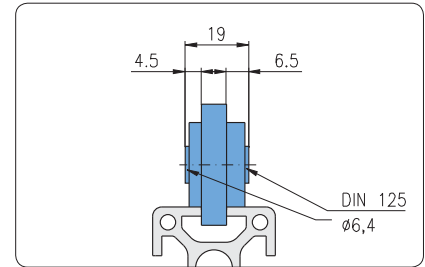


Application

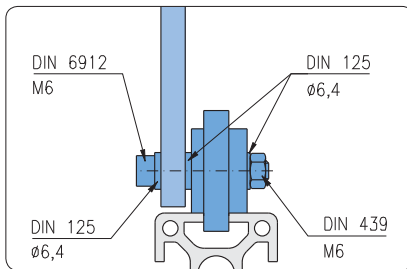
Roller for guiding in the 8 mm profile slot for sliding doors



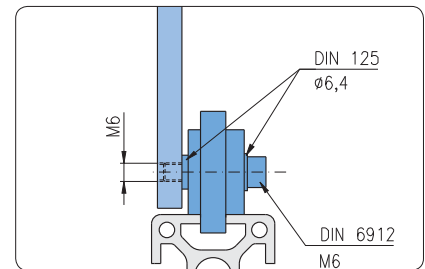
Asymmetric mount



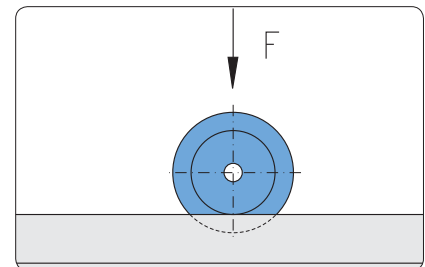
Mounting measure incl. washer DIN 125



Mounting with threaded pillar



Mounting with thread in panel element

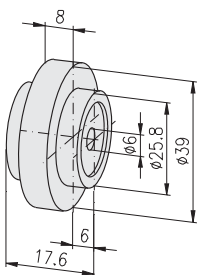


Technical data

material: PA-GF
 colour: black
 max. static load: $F = 150 \text{ N}$

Comments

2 deep grooved ball bearings with 2 cover discs



Description

Roller 39

Weight

32 g

Article-No.

1.66.1395

Roller fastening sets
type A



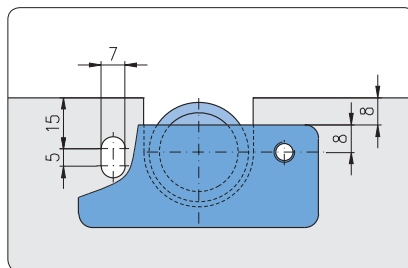
Roller fastening set type A, one-sided

Application

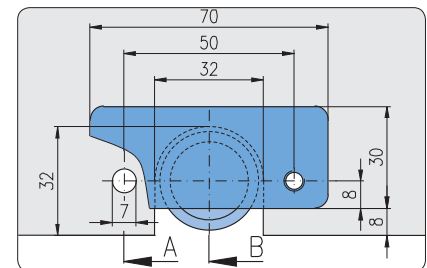
The roller fastening set allows the mounting of the roller into the panel element. Thus the panel element fits in the slot and fills the frame completely



Roller fastening set type A, double-sided



Mounting on top side

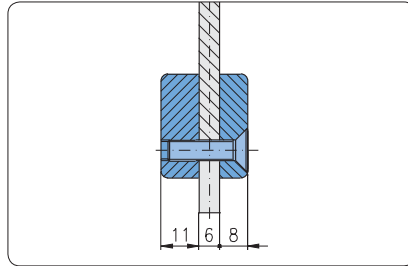


Mounting on bottom side

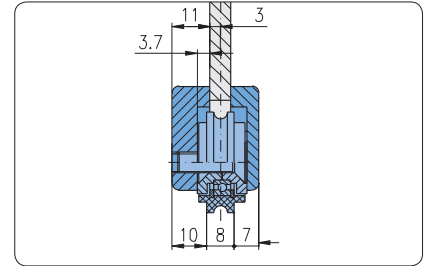
Comments

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

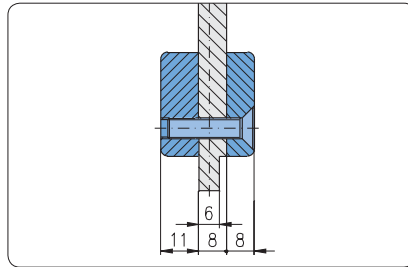
Roller fastening sets
type A



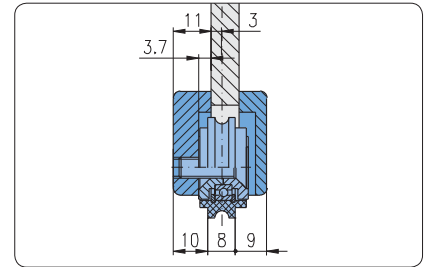
Panel element 6 mm
View A - A



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

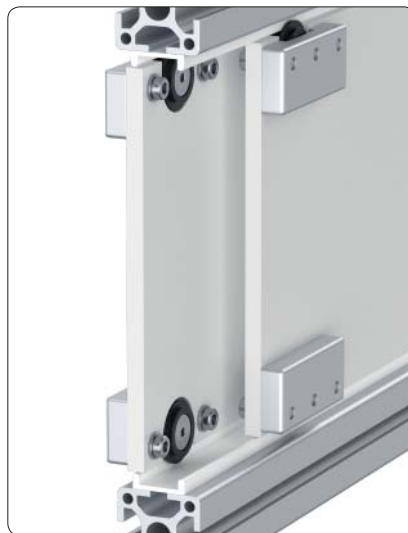
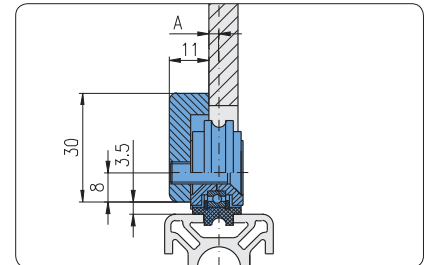
Roller fastening sets
type B



Guidance in profile slot

Application

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

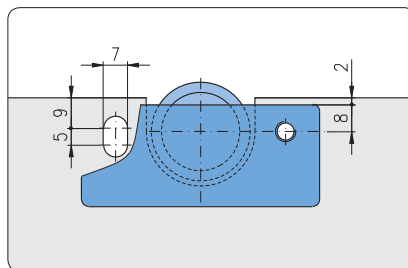


Guidance in twin track guide

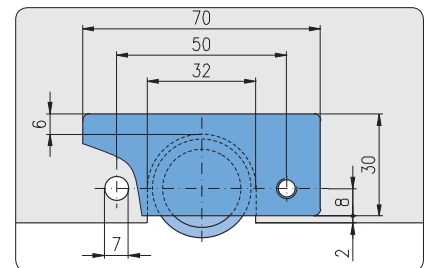
Comments

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**

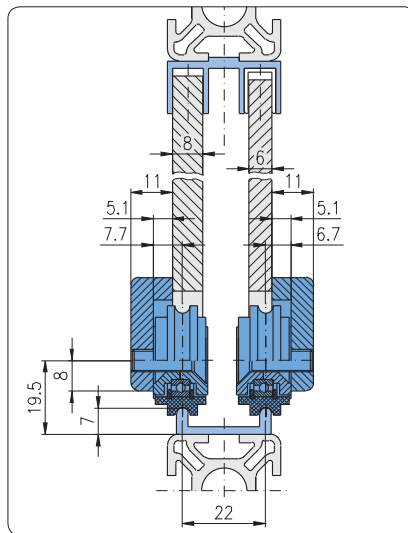


Application

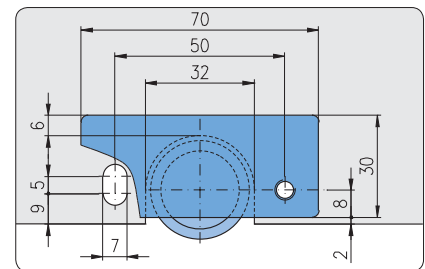
Guidance of sliding door
 on top: sliding profile 30×14
 on bottom: twin track guide with profile

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

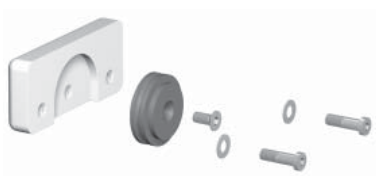


Technical data

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

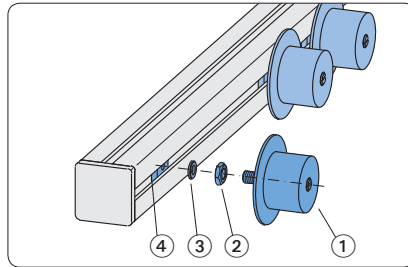
Edge roller



Application

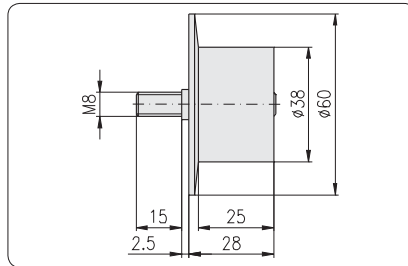
Roller conveyors for transporting boxes and containers

- 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

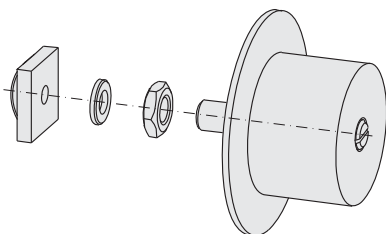
bearings: steel or stainlessball bearings
on galvanised steel bolt

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

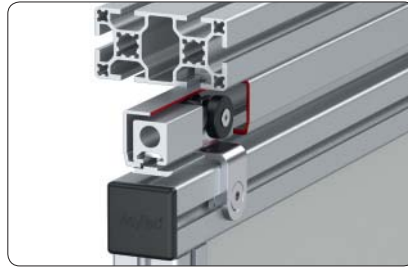
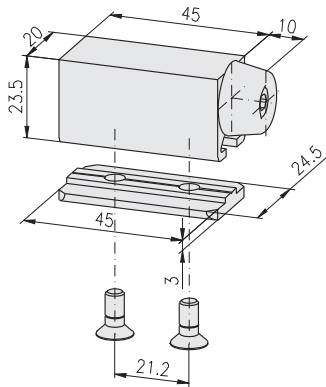
Weight

51.0 g

Article-No.

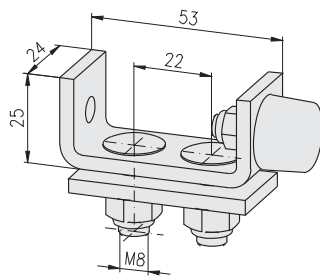
1.66.7523860

Stopper Type 1
for sliding suspended door



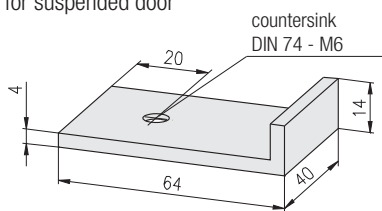
Description	Weight	Article-No.
Stopper Type 1 for sliding suspended door, complete	63 g	1.66.8201055

Stopper Type 2
for sliding suspended door



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

Frame guide
for suspended door



Technical data

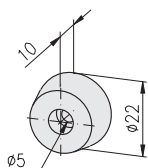
material: aluminium
surface: natural anodised

Comments

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

Description	Weight	Article-No.
Frame guide for suspended door	30 g	1.66.8050

Rubber door stop
for suspended door



Technical data

material: rubber
colour: black

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

Slot rollers

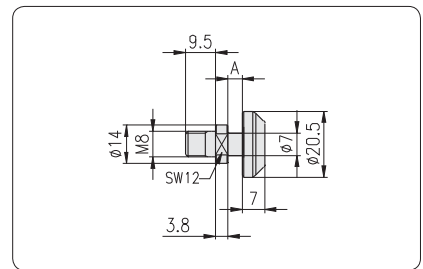
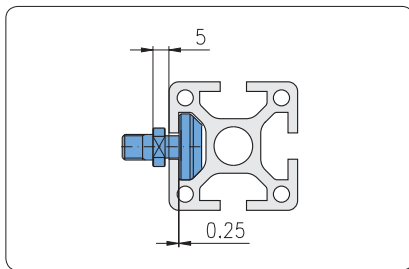
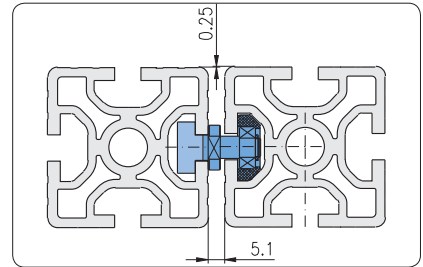
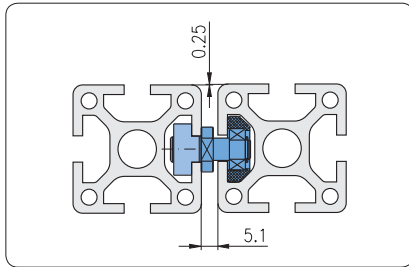


Application

For light running sliding doors

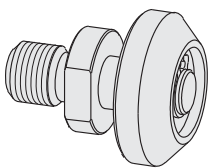
Technical data

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

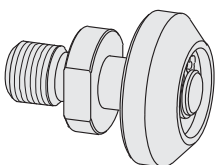


Fastening elements (optional)

- threaded plate E M8 1.31.EM8
- threaded plate, heavy, E M8 1.31.6EM8
- T-Nut, E M8 1.32.EM8
- T-Nut for subs. insertion E, M8 1.32.4EM8



Description	A	Weight	Article-No.
Slot roller E3	4.45	24 g	1.67.42E3M8



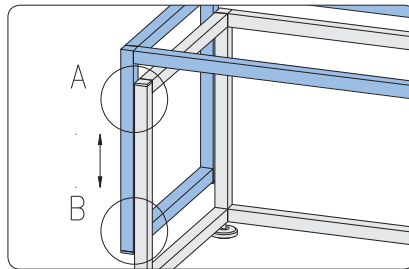
Description	A	Weight	Article-No.
Slot roller E4	5.45	24 g	1.67.42E4M8

Guidance system

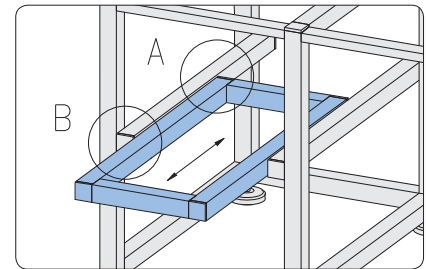


Application

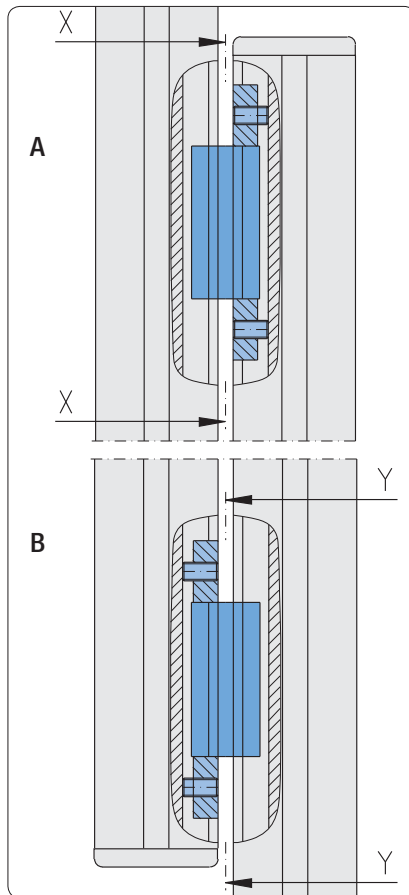
Slideway with sliding blocks e.g. for lifting tables and drawers



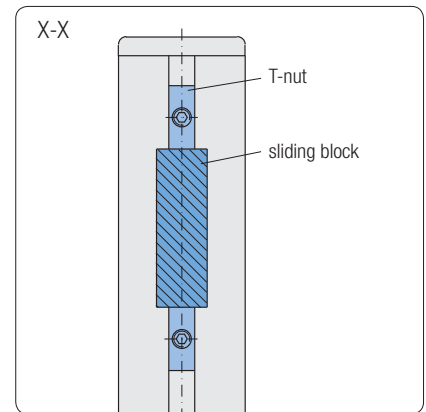
Slideway for lifting table



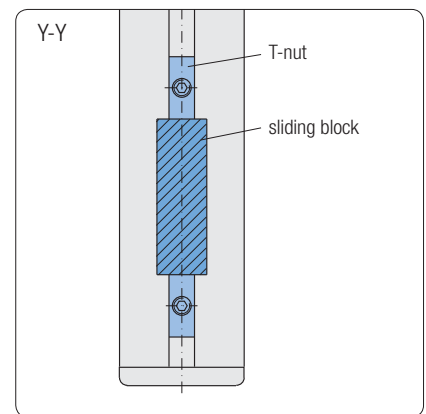
Slideway for drawer



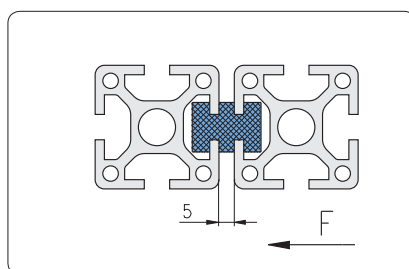
Details "A" and "B"



View "X"

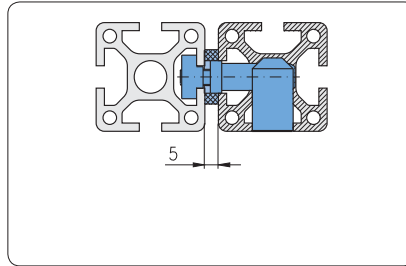


View "Y"

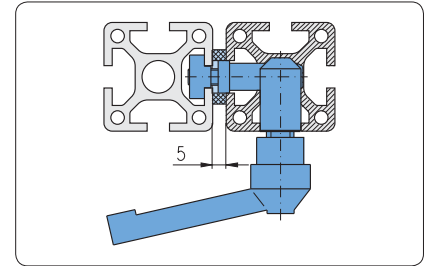


Clamping

for guidance system



Clamping with setscrew



Clamping with clamping lever

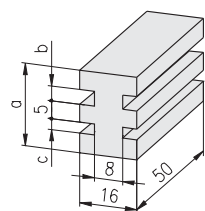
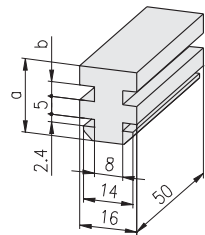
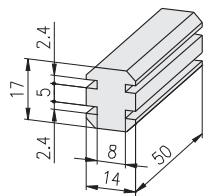
Single parts for clamping

Description	Article-No.
T-nut sliding block	1.67.□M8
Distance washer	1.67.2008
Clamping lever	1.29.801030

Connector

Description	for profile	Article-No.
Connector, screw-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

Comments

raw finish on request

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

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

Description	a	b	c	F	Weight	Article-No.
Sliding block E3	22.2	3.2	3.2	2,000 N	18 g	1.67.E3E3
Sliding block E3/E4	23.2	3.2	4.2	2,000 N	18 g	1.67.E3E4
Sliding block E4	24.2	4.2	4.2	2,000 N	23 g	1.67.E4E4

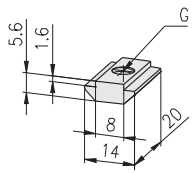
T-nut sliding blocks

Technical data

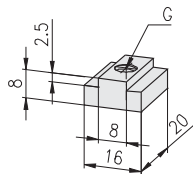
material: PA6G oil (murlubric or similar)
 colour: black

Comments

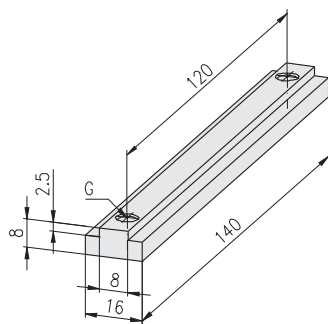
raw finish on request



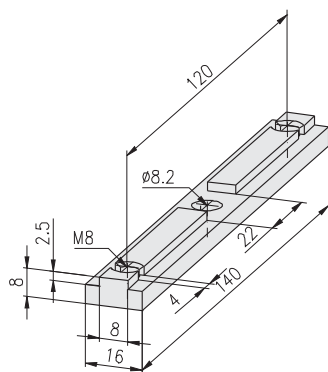
Description	G	Weight	Article-No.
T-nut sliding block F	M6	1.5 g	1.67.FM6
T-nut sliding block F	M8	1.5 g	1.67.FM8



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



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

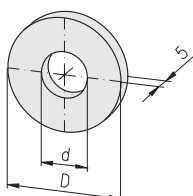


Description	Weight	Article-No.
T-nut sliding block E 2×M8 for Eco-Slide with clamping lever	15.6 g	1.67.E2M81408

Distance washer

Technical data

material: PVC
 colour: grey



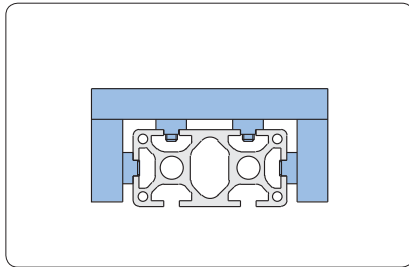
Description	D	d	Weight	Article-No.
Distance washer	22	8.3	3.0 g	1.67.2002
Distance washer	28	13.0	3.0 g	1.67.2008

Eco-Slides

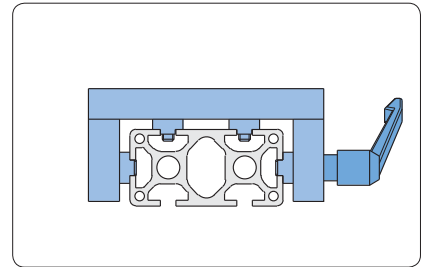


Application

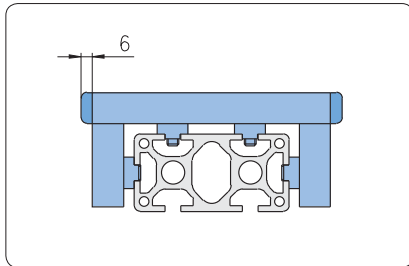
Sliding carriage in variable, simple and rugged design with low sliding resistance
 High tolerance adjustment for width and height



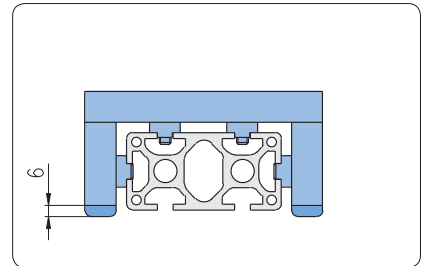
without clamping lever



with clamping lever



with side cover caps



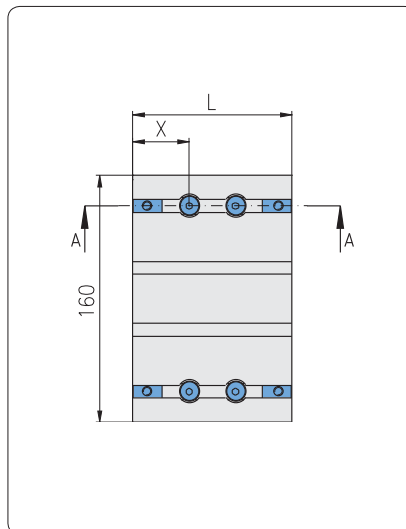
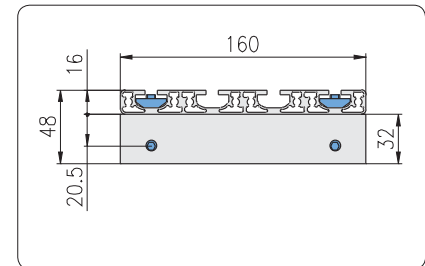
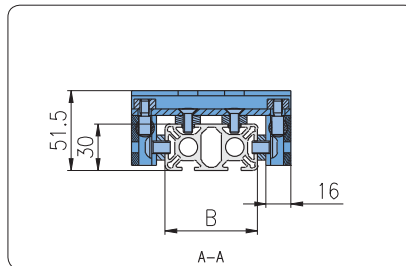
with lower cover caps

Eco-Slide
for profile group 30
F-slot



Technical data

loading capacity: max. 1,000 N



Width of profile

30 mm

Description	B	X	L	Weight	Article-No.
Eco-Slide, PG 30 - 30F		36,5	73	510 g	1.67.S101.030030F
Eco-Slide, PG 30 - 30F, with clamping lever		36,5	73	549 g	1.67.S102.030030F

60 mm

Description	B	X	L	Weight	Article-No.
Eco-Slide, PG 30 - 60F		36,5	103	600 g	1.67.S101.030060F
Eco-Slide, PG 30 - 60F, with clamping lever		36,5	103	639 g	1.67.S102.030060F

100 mm

Description	B	X	L	Weight	Article-No.
Eco-Slide, PG 30 - 100F		46,5	143	720 g	1.67.S101.030100F
Eco-Slide, PG 30 - 100F, with clamping lever		46,5	143	759 g	1.67.S102.030100F

150 mm

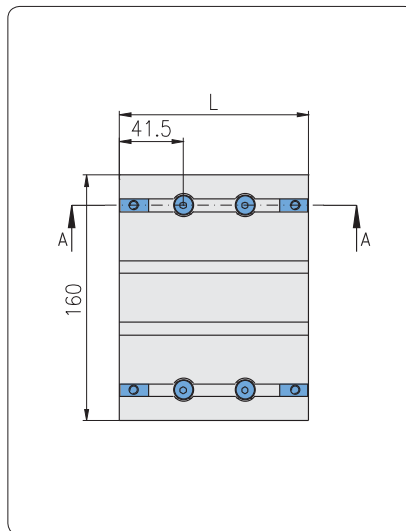
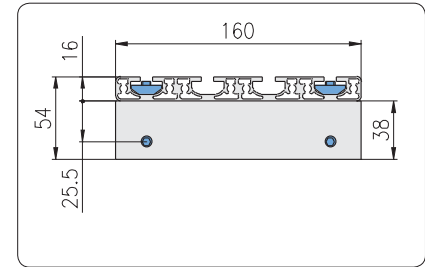
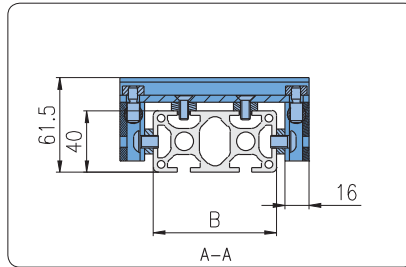
Description	B	X	L	Weight	Article-No.
Eco-Slide, PG 30 - 150F		46,5	193	810 g	1.67.S101.030150F
Eco-Slide, PG 30 - 150F, with clamping lever		46,5	193	849 g	1.67.S102.030150F

Eco-Slide
for profile group 40
E-slot



Technical data

loading capacity: max. 1,000 N



Width of profile

40 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 40 - 40E		83	555 g	1.67.S101.040040E
Eco-Slide, PG 40 - 40E, with clamping lever		83	594 g	1.67.S102.040040E

80 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 40 - 80E		123	670 g	1.67.S101.040080E
Eco-Slide, PG 40 - 80E, with clamping lever		123	709 g	1.67.S102.040080E

120 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 40 - 120E		163	790 g	1.67.S101.040120E
Eco-Slide, PG 40 - 120E, with clamping lever		163	829 g	1.67.S102.040120E

160 mm

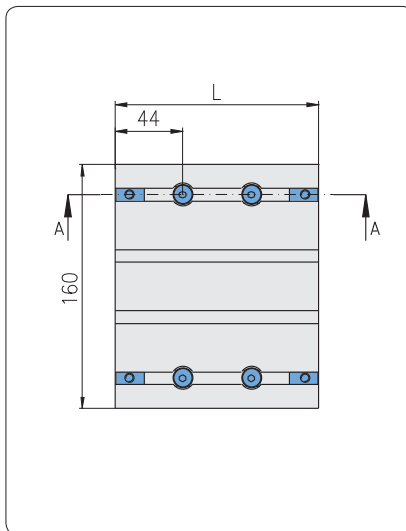
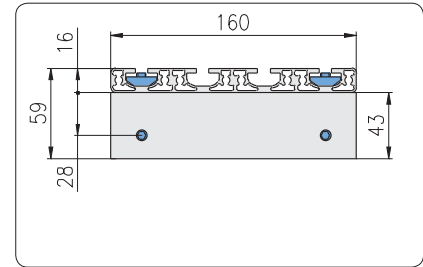
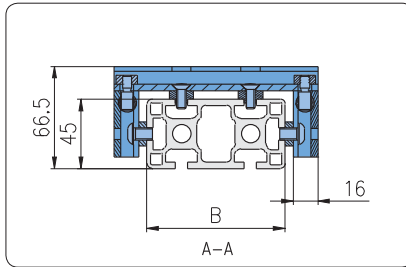
Description	B	L	Weight	Article-No.
Eco-Slide, PG 40 - 160E		203	910 g	1.67.S101.040160E
Eco-Slide, PG 40 - 160E, with clamping lever		203	949 g	1.67.S102.040160E

Eco-Slide
for profile group 45
E-slot



Technical data

loading capacity: max. 1,000 N



Width of profile

45 mm

Description	B	L	Weight	Article-No.
Eco-Slide, PG 45 - 45E		88	665 g	1.67.S101.045045E
Eco-Slide, PG 45 - 45E, with clamping lever		88	704 g	1.67.S102.045045E

90 mm

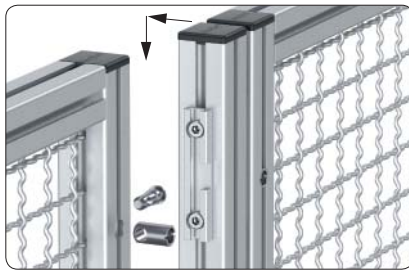
Description	B	L	Weight	Article-No.
Eco-Slide, PG 45 - 90E		133	710 g	1.67.S101.045090E
Eco-Slide, PG 45 - 90E, with clamping lever		133	749 g	1.67.S102.045090E

**Hanging bracket
for safety barriers**

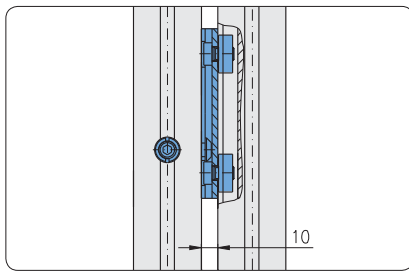


Application

Element for mounting unHINGEABLE fence elements



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

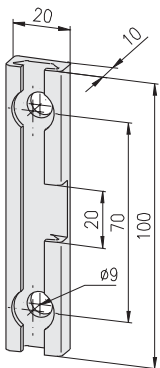


Technical data

material: aluminium
strength: F25
surface: natural anodised

Comments

- Elements needed for mounting:
- cap-screw DIN 6912 M8×12 with threaded plate
 - T-Nut for subsequent insertion M8 with cap-screw DIN 6912 M8×10
 - parallel-connector with F-head



Description

Hanging bracket

Weight

16 g

Article-No.

1.68.201050

Suspended glider

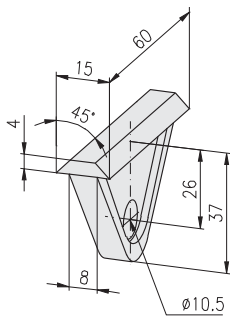


Application

Element for tool suspension in MayTec-profile

Technical data

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



Description

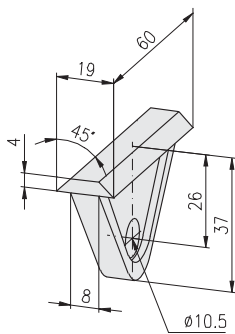
Suspended glider F

Weight

10 g

Article-No.

1.69.F010



Description

Suspended glider E

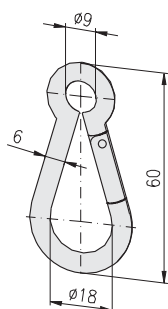
Weight

10 g

Article-No.

1.69.E010

Carabine swivel



Technical data

material: steel
 surface: galvanised

Description

Carabine swivel 60x6

Weight

27 g

Article-No.

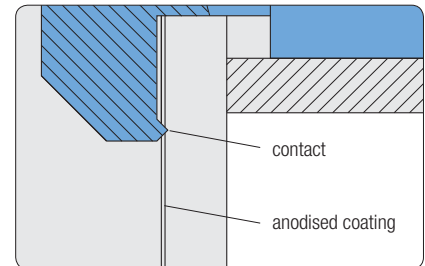
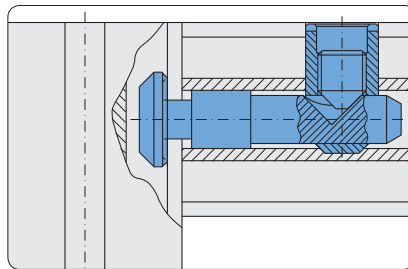
1.69.1606

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

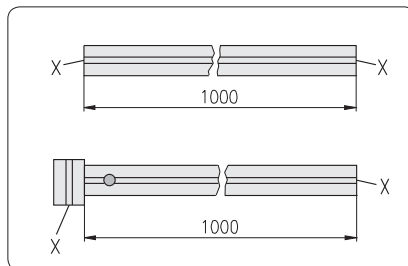


Comments

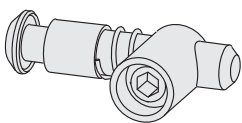
Suitable to equalise charge accumulations
Not suitable for higher currents

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

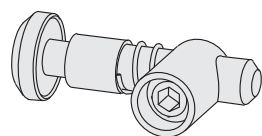


Resistance values with DC current of more than 200 mA with 1.0 m alu-profile	
without connector	0.11 Ω
with 1 standard connector	> 2 MΩ
with 1 univ. grounding connector	0.11 Ω



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

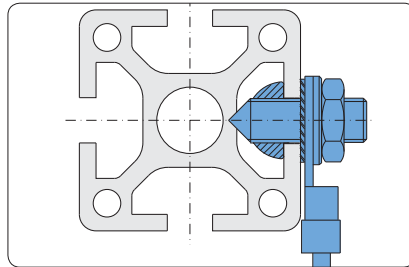
More grounding connectors
➔ Connectors 1.2A

Ground connections



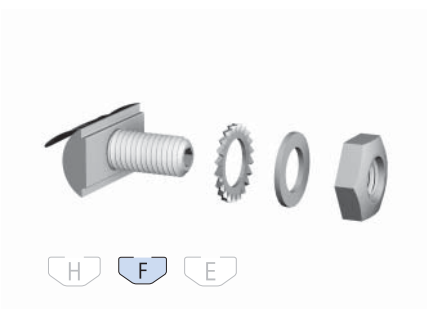
Application

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

Ground connection F, M6

Weight

74 g

Article-No.

1.70.10FM6

Single parts

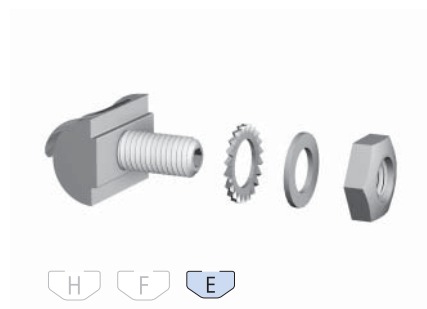
T-Nut for subsequent insertion F, M6

Setscrew DIN 914 - M6×25 - V2A

Fan type lock washer DIN 6798 - A6.4 - V2A

Hexagon nut DIN 439 - M6 - Ms

Washer with chamfer DIN 125 - B6.4 - Ms



Description

Ground connection E, M8

Weight

146 g

Article-No.

1.70.10EM8

Single parts

T-Nut for subsequent insertion E, M8

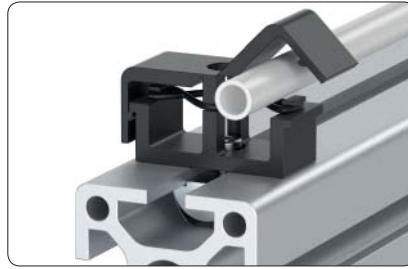
Setscrew DIN 914 - M8×25 - V2A

Fan type lock washer DIN 6798 - A8.4 - V2A

Hexagon nut DIN 439 - M8 - Ms

Washer with chamfer DIN 125 - B8.4 - Ms

Cable and hose clamp

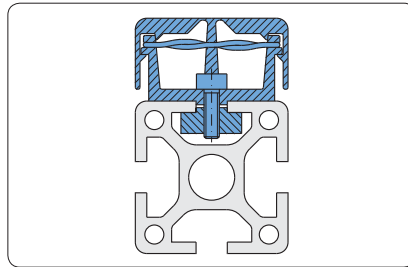


Application

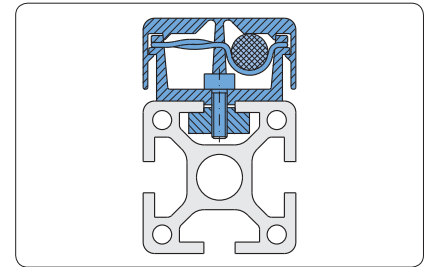
Fixing element for cables and hoses up to $\varnothing 12$ mm

Technical data

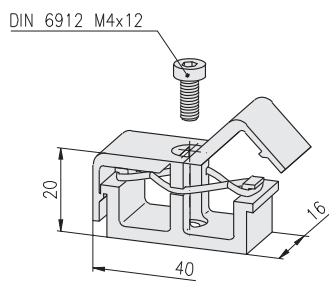
material: PA
colour: black



Mounting on profiles



$\varnothing_{max} = 12$ 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

spring-nut E, M4

T-slot nut E, M4

1.32.4EM4

1.33.EM4

1.34.10EM4

Description

Cable and hose clamp

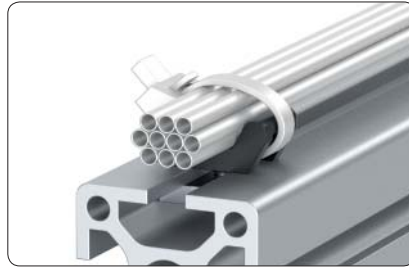
Weight

8 g

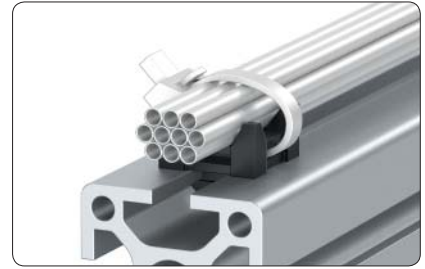
Article-No.

1.71.1010

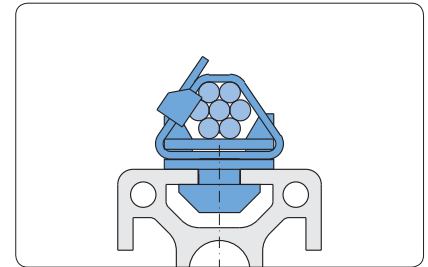
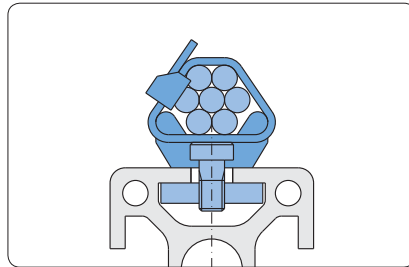
Block for cable binder,
Cross-blocks for cable binder
front-sided insertion,
Cable binder



Block for cable binder



Cross-block for cable binder



front-sided insertion

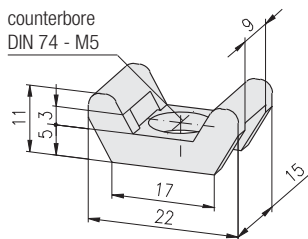
Technical data

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

Block for cable binder

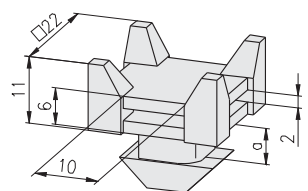
Weight

1.6 g

Article-No.

1.71.2010

Cross-blocks for cable binder
front-sided insertion



Description

Cross-block for cable binder F
Cross-block for cable binder E3
Cross-block for cable binder E4

a

2.2
3.0
4.0

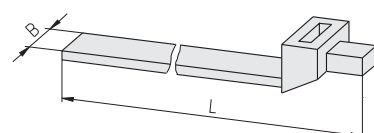
Weight

4.0 g
4.0 g
4.0 g

Article-No.

1.71.2020F2
1.71.2020E3
1.71.2020E4

Cable binder
detachable



Description

Cable binder, detachable
Cable binder, detachable

B×L

4.8×190
9.0×140

Weight

1.0 g
1.9 g

Article-No.

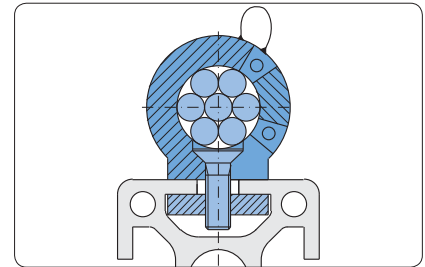
1.71.2048190
1.71.2090140

Installation rings



Application

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

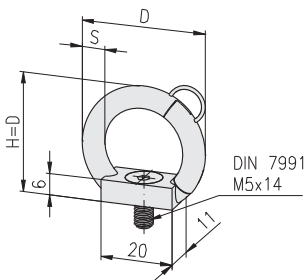


Technical data

material: PA-GF
colour: black

Comments

Delivery unit incl. screw



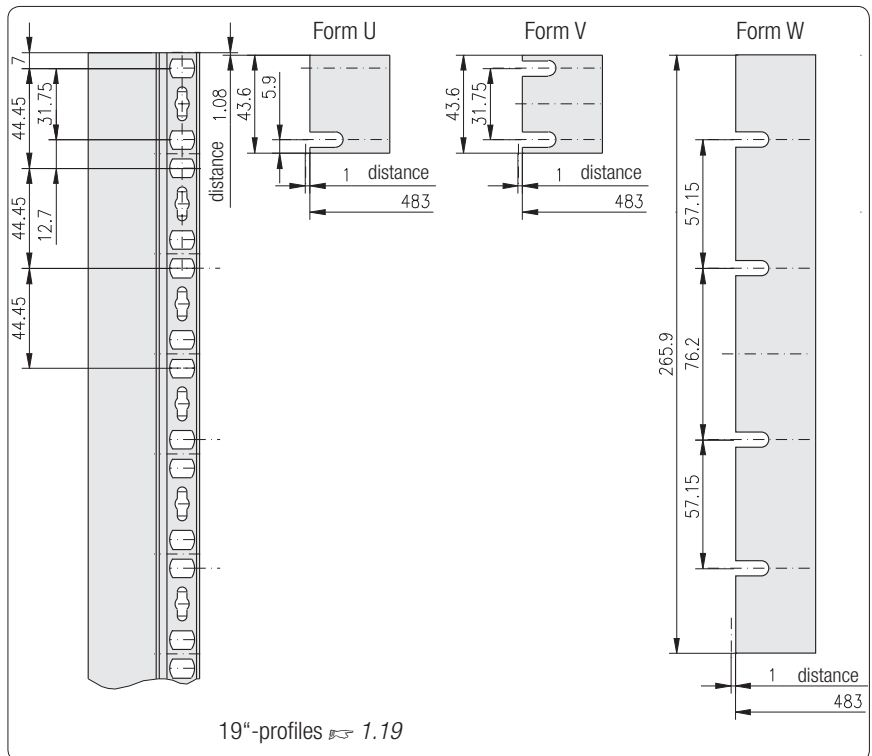
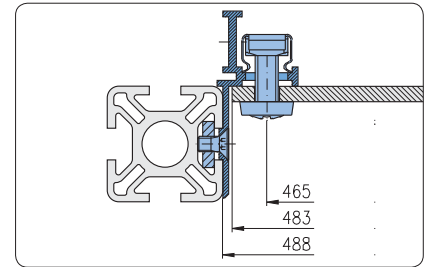
Description	D	s	Weight	Article-No.
Installation ring	Ø28.5	6.0	5 g	1.71.30285
Installation ring	Ø36.5	6.0	6 g	1.71.30365
Installation ring	Ø47.5	7.5	8 g	1.71.30475
Installation ring	Ø56.5	7.5	9 g	1.71.30565

Mounting set for 19" profile



Application

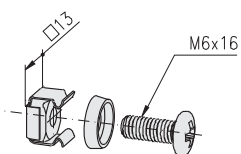
Fastening set for the assembly of 19" plug-in units and 19" profiles



Dimensions for front panels and housings according to DIN 41494

Technical data

screw and nut: steel, galvanised
 plate and socket washer: PA, black
 delivery unit: PU with 10 mounting sets



Description

Mounting set for 19" profile

Weight

70 g

Article-No.

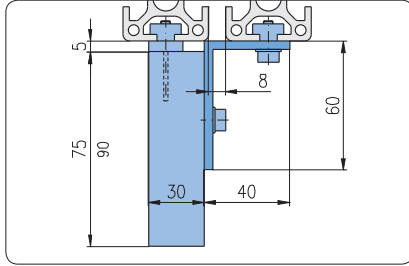
1.72.2010.10

Safety interlocking-mountings for swinging door



Application

Mounting element for electrical interlocking switches



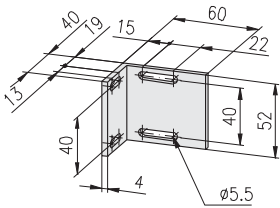
Comments

Assembly on
profile 30×30
profile 40×40
profile 40×80

Technical data

material: aluminium
surface: natural anodised

for swinging door



Description

Safety interlocking-mounting
for swinging door

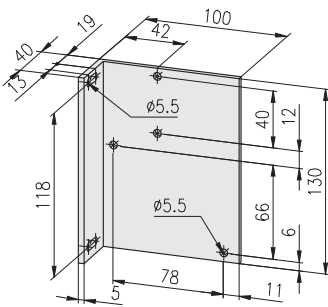
Weight

46 g

Article-No.

1.73.4010

with lock for swinging door



Description

Safety interlocking-mounting
with lock for swinging door

Weight

183 g

Article-No.

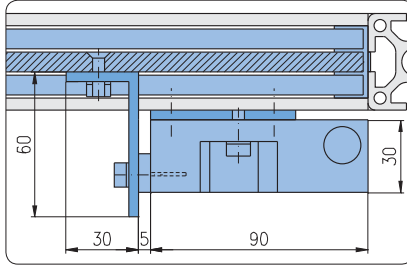
1.73.4020

Safety interlocking-mountings for sliding door



Application

Mounting element for the electrical interlocking of sliding doors



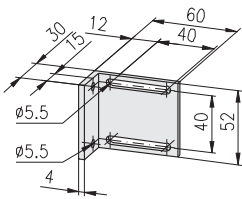
Comments

Assembly on profile 30×30
profile 40×40
profile 40×80

Technical data

material: aluminium
surface: natural anodised

Contact bracket-mounting for sliding door



Description

Contact bracket-mounting for sliding door

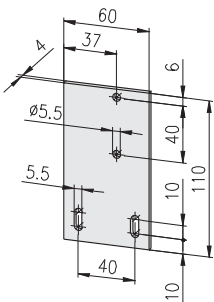
Weight

41 g

Article-No.

1.73.4030

Safety interlocking-mounting for sliding door



Description

Safety interlocking-mounting for sliding door

Weight

70 g

Article-No.

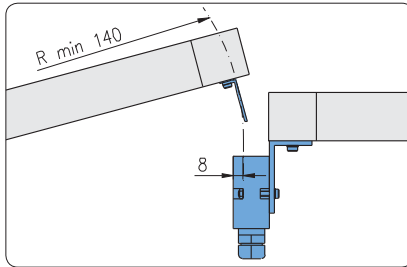
1.73.4040

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

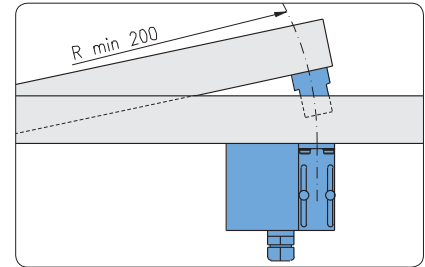


Application

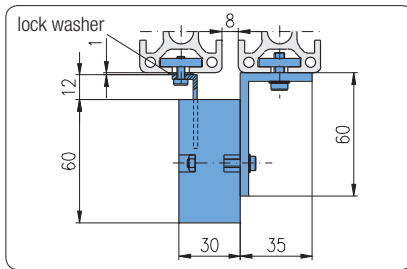
- Fastening elements for:
- safety switches AZ 17
 - safety closing AZM 170 at sliding doors



Activation key
Mounting vertical to swivel radius



Activation key
Mounting horizontal to swivel radius



Comments

Assembly on
profile 30×30
profile 40×40
profile 40×80

Technical data

material: aluminium
surface: natural anodised

Delivery

Incl. lock washers DIN 9021 Ø4.3 mm
for mounting activation key

Description

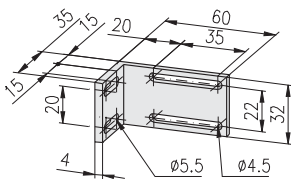
Safety interlocking-mounting AZ 17
for swinging door

Weight

26 g

Article-No.

1.73.4110



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

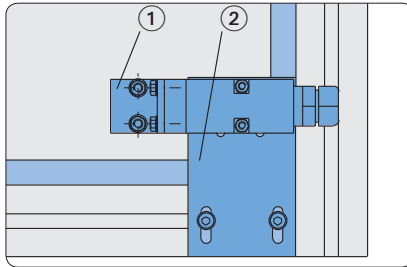


Application

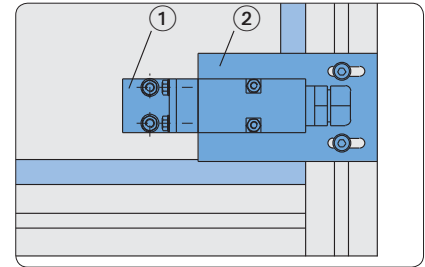
- Fastening elements for:
- safety switches AZ 17
 - safety closing AZM 170 at sliding doors

Mounting position:

Safety switch parallel to sliding door

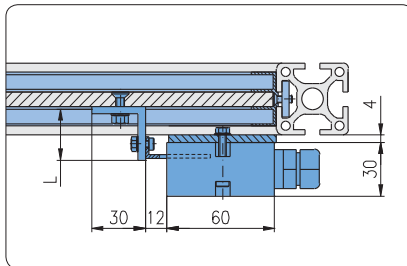


Fastening plate horizontal



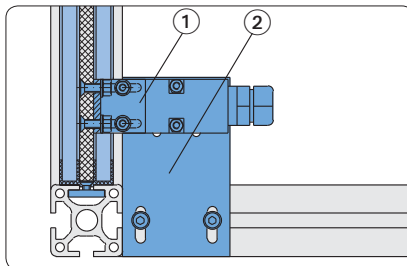
Fastening plate vertical

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

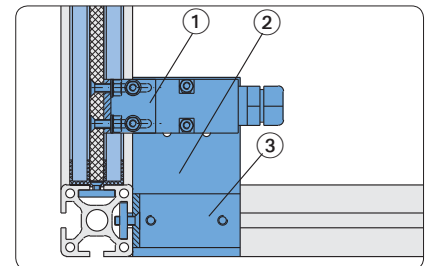


Mounting position:

Safety switch across to sliding door

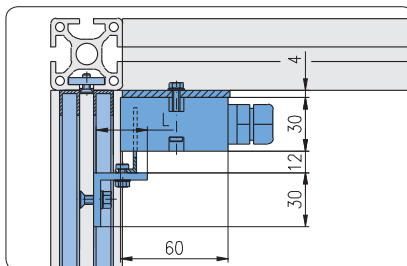


Fixing at cross profile



Fixing at longitudinal profile

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



Safety interlocking-mountings AZ 17 for sliding door

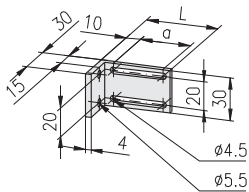
Technical data

material: aluminium
surface: natural anodised

Comments

Assembly on
profile 30×30
profile 40×40
profile 40×80

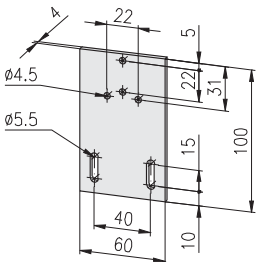
Contact bracket-mounting AZ 17 for sliding door



Description

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



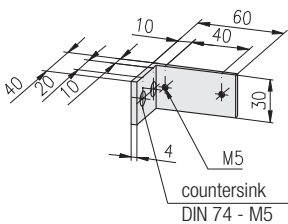
Description

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

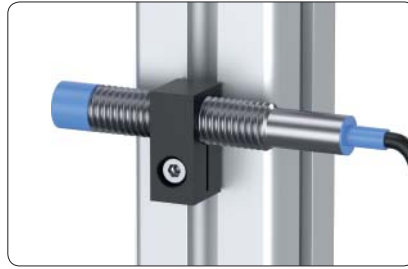
Countersink DIN 74 - M5 for
countersunk screw DIN 7991 - M5



Description

Description	Weight	Article-No.
Angle for safety interlocking-mounting AZ 17 for sliding door	30 g	1.73.4140

Sensor brackets



Application
For fastening of sensors



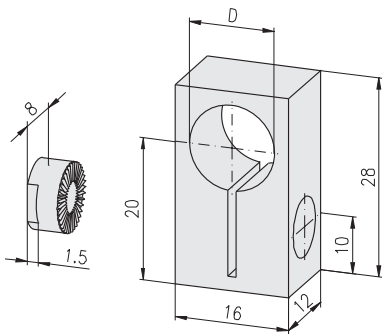
Assembly
The toothed lock washer is fixed in profile slot and guarantees a reliable positioning

Technical data

material: PA, black

Fastening elements

cap-screw DIN 6912, M4



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

Electrical installation trunking

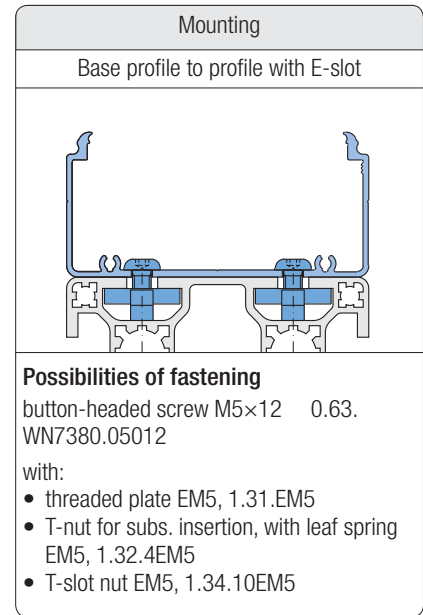
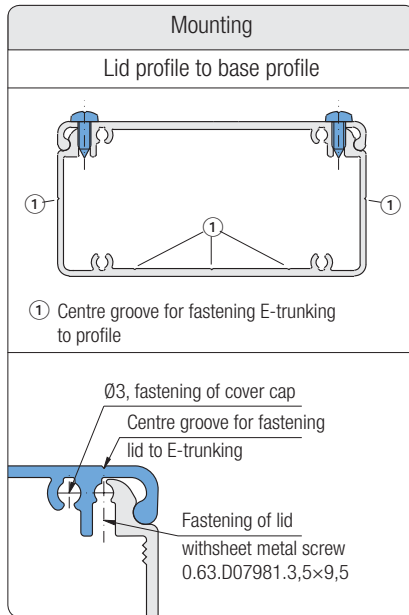


Application

Installation trunking for electrical and pneumatic lines

Technical data

material: aluminium
surface: natural anodised



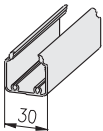
Possibilities of fastening

button-headed screw M5×12 0.63.
WN7380.05012

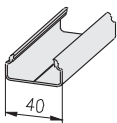
with:

- threaded plate EM5, 1.31.EM5
- T-nut for subs. insertion, with leaf spring EM5, 1.32.4EM5
- T-slot nut EM5, 1.34.10EM5

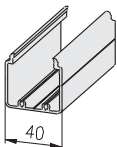
E-trunking




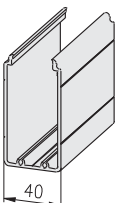
Description	Weight	Article-No.
E-trunking 30×30, bar 6 m	2.28 kg	1.19.203030G.60
 E-trunking 30×30, cut to length	0.38 kg/m	1.19.203030G-A00A00/... /... = length in mm



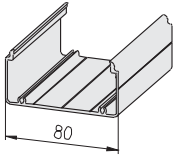
Description	Weight	Article-No.
E-trunking 40×20, bar 6 m	1.80 kg	1.19.204020G.60
 E-trunking 40×20, cut to length	0.30 kg/m	1.19.204020G-A00A00/... /... = length in mm



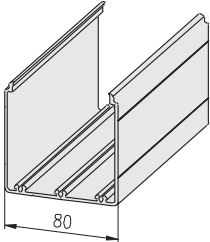
Description	Weight	Article-No.
E-trunking 40×40, bar 6 m	3.66 kg	1.19.204040G.60
 E-trunking 40×40, cut to length	0.61 kg/m	1.19.204040G-A00A00/... /... = length in mm



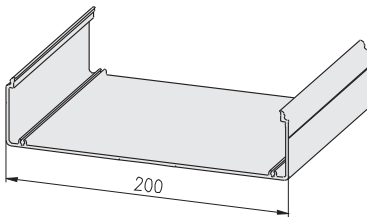
Description	Weight	Article-No.
E-trunking 40×80, bar 6 m	7.20 kg	1.19.204080G.60
 E-trunking 40×80, cut to length	1.20 kg/m	1.19.204080G-F00F00/... /... = length in mm




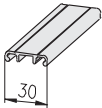
Description	Weight	Article-No.
E-trunking 80×40, bar 6 m	5.10 kg	1.19.208040G.60
 E-trunking 80×40, cut to length	0.85 kg/m	1.19.208040G-F00F00/... /... = length in mm



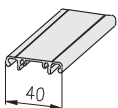
Description	Weight	Article-No.
E-trunking 80×80, bar 6 m	9.30 kg	1.19.208080G.60
 E-trunking 80×80, cut to length	1.55 kg/m	1.19.208080G-F00F00/... /... = length in mm



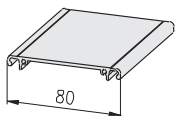
Description	Weight	Article-No.
E-trunking 200×50, bar 6 m	12.00 kg	1.19.220050G.60
 E-trunking 200×50, cut to length	2.0 kg/m	1.19.220050G-L00L00/... /... = length in mm


E-trunking, lids


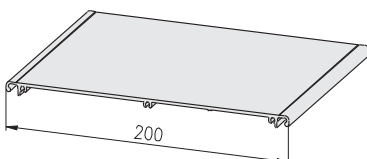
Description	Weight	Article-No.
E-trunking, lid 30, bar 6 m	1.44 kg	1.19.2030D.60
 E-trunking, lid 30, cut to length	0.24 kg/m	1.19.2030D-A00A00/... /... = length in mm



Description	Weight	Article-No.
E-trunking, lid 40, bar 6 m	2.10 kg	1.19.2040D.60
 E-trunking, lid 40, cut to length	0.35 kg/m	1.19.2040D-A00A00/... /... = length in mm

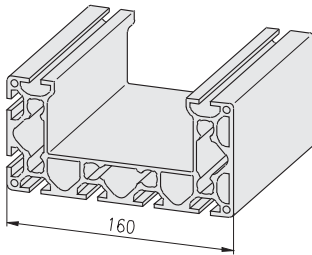


Description	Weight	Article-No.
E-trunking, lid 80, bar 6 m	3.54 kg	1.19.2080D.60
 E-trunking, lid 80, cut to length	0.59 kg/m	1.19.2080D-F00F00/... /... = length in mm



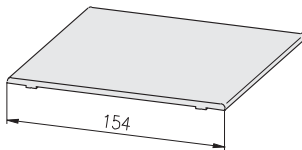
Description	Weight	Article-No.
E-trunking, lid 200, bar 6 m	9.00 kg	1.19.2200D.60
 E-trunking, lid 200, cut to length	1.50 kg/m	1.19.2200D-L00L00/... /... = length in mm


E-trunking



Description	Weight	Article-No.
Profile 80×160, 8E, SP, bar 6 m	47.40 kg	1.11.080160.89SP.60
 Profile 80×160, 8E, SP, cut to length	7.90 kg/m	1.11.080160.89SP-L00L00/... /... = length in mm

E-trunking, lid

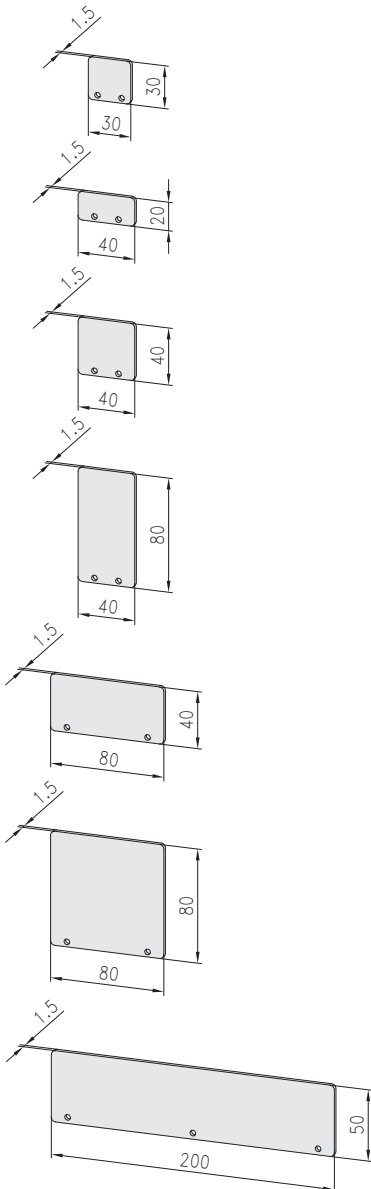


Description	Weight	Article-No.
Profile pre-cut lid 120, bar 6 m	10.80 kg	1.19.1101120.60
 Profile pre-cut lid 120, cut to length	1.80 kg/m	1.19.1101120-L00L00/... /... = length in mm

E-trunking, end plates

Technical data

material: stainless steel
surface: pickled and passivated



Description	Weight	Article-No.
E-trunking, end plate 30×30	3.8 g	1.75.2030302

Description	Weight	Article-No.
E-trunking, end plate 40×20	3.8 g	1.75.2040202

Description	Weight	Article-No.
E-trunking, end plate 40×40	6.8 g	1.75.2040402

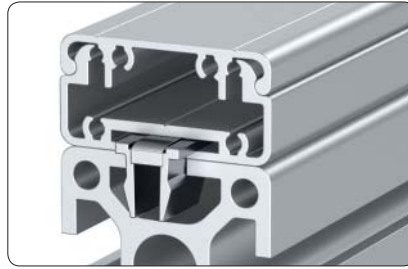
Description	Weight	Article-No.
E-trunking, end plate 40×80	13.8 g	1.75.2040802

Description	Weight	Article-No.
E-trunking, end plate 80×40	13.8 g	1.75.2080402

Description	Weight	Article-No.
E-trunking, end plate 80×80	27.7 g	1.75.2080802

Description	Weight	Article-No.
E-trunking, end plate 200×50	43.3 g	1.75.2200503

Electrical installation trunking for clips

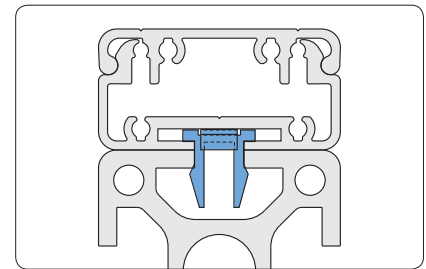
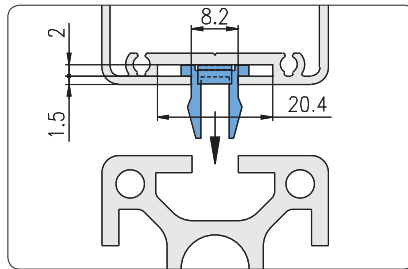


Application

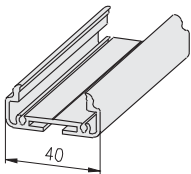
Clip-system for quick assembly of the E-trunking

Technical data

material: aluminium
surface: natural anodised

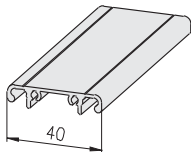



E-trunking, for clips



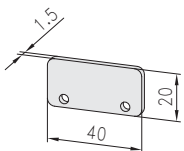
Description	Weight	Article-No.
E-trunking 40×20, Clips, bar 6 m	3.00 kg	1.19.214020G.60
 E-trunking 40×20, Clips, cut to length	0.50 kg/m	1.19.214020G-A00A00/... /... = length in mm

E-trunking, lid



Description	Weight	Article-No.
E-trunking, lid 40, bar 6 m	2.10 kg	1.19.2040D.60
 E-trunking, lid 40, cut to length	0.35 kg/m	1.19.2040D-A00A00/... /... = length in mm

E-trunking, end plate

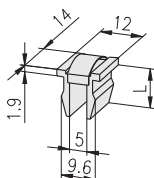


Technical data

material: stainless steel
surface: pickled and passivated

Description	Weight	Article-No.
E-trunking, end plate 40×20, Clips	3.8 g	1.75.2140202

Clip for E-trunking

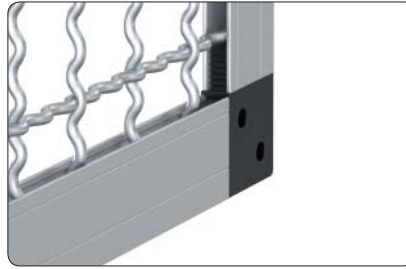


Technical data

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 element 33
for wire net mounting profile 33×10**

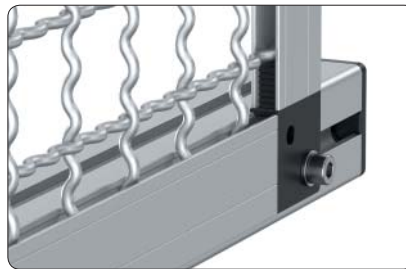


Application

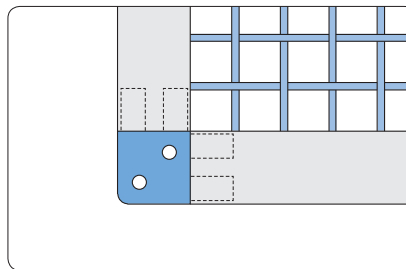
This profile allows simple and safe installation of wire nets

Comments

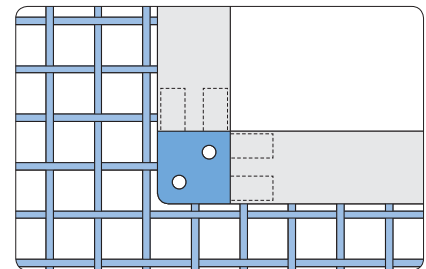
Wire net mounting profile 33×10
[➤ 1.19.1423...](#)



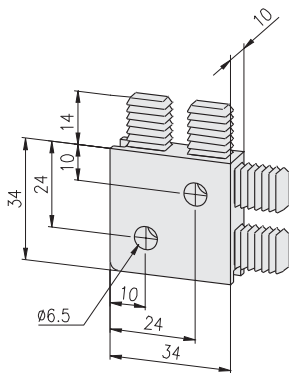
Outside mounting



Outside corner



Inside corner

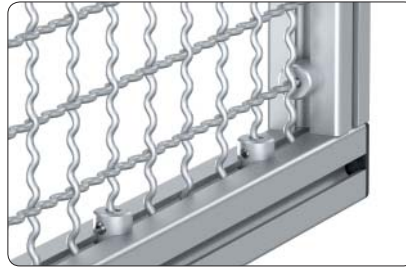


Technical data

material: PA - GF
 colour: black

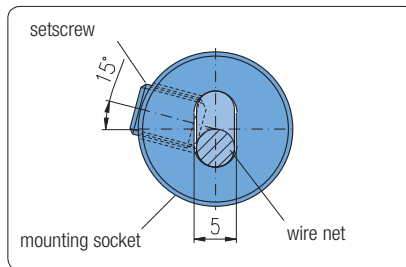
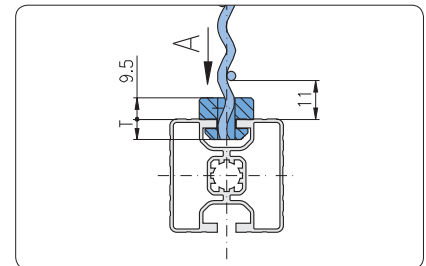
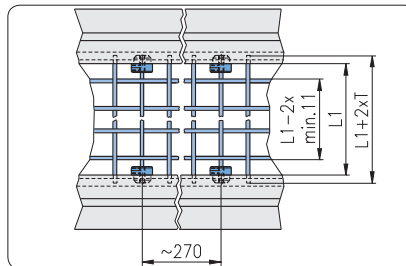
Description	Weight	Article-No.
Corner element 33	16 g	1.81.23310

Mounting sockets



Application

For stable and vibration free fastening of wire nets



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°

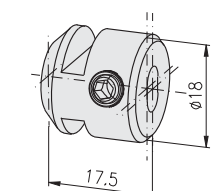
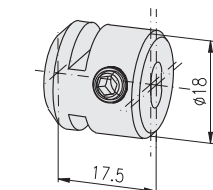
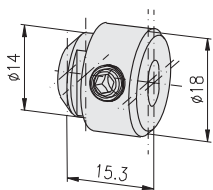
View „A“

Technical data

material:
 mounting socket: aluminium, natural anodised
 setscrew: steel, galvanised

Delivery unit

Mounting socket incl. setscrew

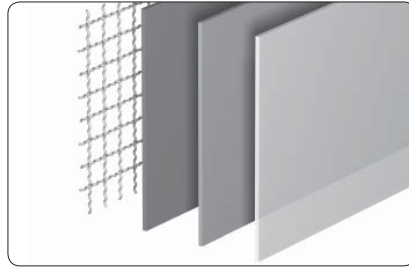


Description	T	Weight	Article-No.
Mounting socket, F	5	6 g	1.81.510F

Description	T	Weight	Article-No.
Mounting socket, E3	8	6 g	1.81.510E3

Description	T	Weight	Article-No.
Mounting socket, E4	8	6 g	1.81.510E4

Panel elements

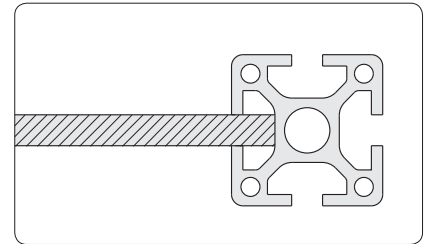


Application

Panel elements to cover machine frames, work stations, partition walls.



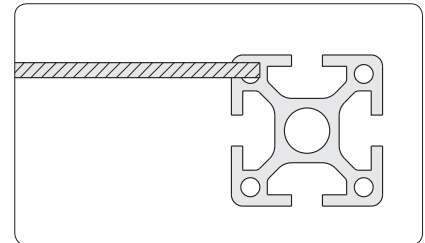
Panel element, fixing directly in the slot



Installation accessories [↗ 1.41](#)



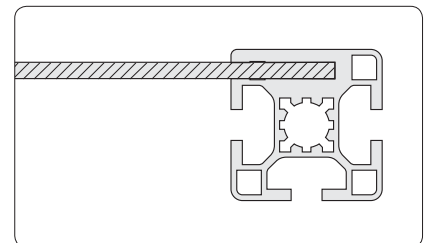
Panel elements close to the outer contour by subsequent slitting of the profiles



Special slits [↗ 1.1E.01](#)



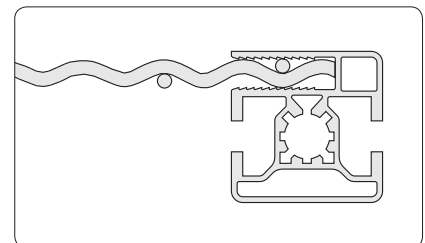
Panel elements close to the outer contour by applying panel profiles



Panel profiles [↗ 1.14](#)



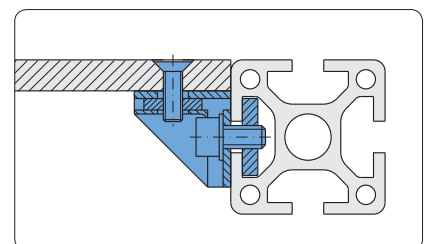
Panel elements close to the outer contour by applying wire net profiles



Wire net profiles [↗ 1.15](#)



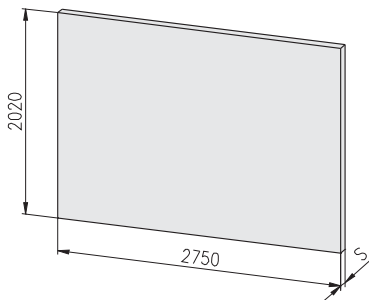
Panel elements close to the outer contour by fixing with angle or mounting block



Mounting blocks [↗ 1.64](#)

Chipboards both sides coated with melamine

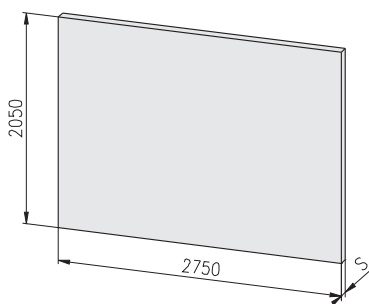
Technical data	
surface:	both sides coated with melamine
structure:	mini pearl
RAL 7035:	light grey
formaldehydmission:	complies to safety standards §9 paragraph 3
light-fastness:	point 6 as per DIN 53799
temperature resistance:	- 25°C to 130°C
chemical resistance:	resistant against organic food, light acid contents and alkaline solution, gasoline, oil, tested as per DIN 53799
chipboard:	high frequency glued laminated chipboard
Technical values on DIN 68765 and 53799	
bulk density:	approx. 700 kg/m ³
thickness tolerance:	+0.5 -0.3 mm
weight:	S = 8 mm 5.6 kg/m ² S = 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	7035	32 kg	1.82.083.00
Chipboard	16	7035	64 kg	1.82.163.00
Chipboard	19	7035	75 kg	1.82.193.00

Solid plastic panels coated with melamine

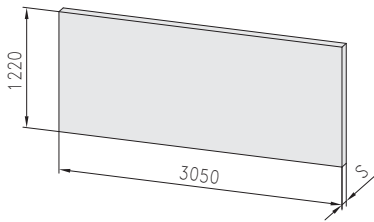
Technical data	
surface:	both sides coated with melamine
structure:	mini pearl
RAL 7035:	light grey
solid plastic panel:	made of Phenolplastic high pressure plate (HPL) of laminated material with all generally known merits of this substance.
Technical values on DIN 19926 and 53799	
bulk density:	approx. 1,500 kg/m ³
thickness tolerance:	-0.6 mm
weight:	S = 4 mm 6 kg/m ² S = 8 mm 12 kg/m ²
cut to length:	1.83.□□□-99/□□□□×□□□□ 1.83.□□□-99/□□□□×□□□□ type 1.83.□□□-99/□□□□×□□□□ length×width in mm



Description	S	RAL	Weight	Article-No.
Solid plastic panel	4	7035	33 kg	1.83.043.00
Solid plastic panel	8	7035	66 kg	1.83.083.00

Alu-plastic composite panels

Technical data	
alu-plastic composite panel:	PE with alu coating on both sides
surface:	natural anodised, E6/EV1
temperature resistance:	- 50°C to 80°C
chemical resistance:	resistant against organic food, light acid contents and alkaline solutions, gasoline, oil
thickness tolerance:	-0.6 mm
weight:	S = 4 mm 5.5 kg/m ² S = 6 mm 7.3 kg/m ²
cut to length:	1.85.□□□-99/□□□□×□□□□ 1.85.□□□-99/□□□□×□□□□ type 1.85.□□□-99/□□□□×□□□□ length×width in mm



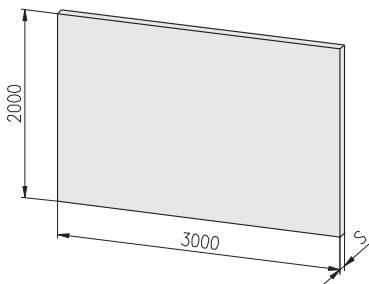
Description	S	Weight	Article-No.
Alu-plastic composite panel	4	20.5 kg	1.85.040.00
Alu-plastic composite panel	6	27.2 kg	1.85.060.00

Polycarbonate (Makrolon)

Application

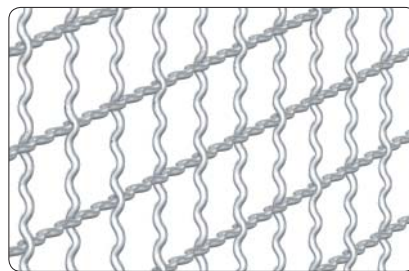
Doors, panels and guards with stringent security requirements as polycarbonate offers high impact resistance and strength against breakage

Technical data	
thickness tolerance:	+0.8 mm
weight:	S = 4 mm 4.8 kg/m ² S = 5 mm 6.0 kg/m ² S = 6 mm 7.2 kg/m ² S = 8 mm 9.6 kg/m ²
cut to length:	1.87.□□□-99/□□□□×□□□□ 1.87.□□□-99/□□□□×□□□□ type 1.87.□□□-99/□□□□×□□□□ length×width in mm
Mechanical properties at 20 °C	
maximum extent of flex	68.7 MN/m ²
break / shear point	> 110.0 %
compression	78.5 MN/m ²
elasticity	2,256.0 MN/m ²
marring resistance	392.4 J/m ²
impact resistance (kJ/m ²)	no break
tensile strength	68.7 MN/m ²
Thermal properties	
temperature distortion according to 'Vicat'	170 °C
melting point	170 °C
temperature range under static load	-100 °C to 130 °C



Description	S	Colour	Weight	Article-No.
Polycarbonate	4	transparent	28.8 kg	1.87.041.00
Polycarbonate	4	UV bronze 2850	28.8 kg	1.87.042.00
Polycarbonate	5	transparent	36.0 kg	1.87.051.00
Polycarbonate	5	UV bronze 2850	36.0 kg	1.87.052.00
Polycarbonate	6	transparent	43.2 kg	1.87.061.00
Polycarbonate	6	UV bronze 2850	43.2 kg	1.87.062.00
Polycarbonate	8	transparent	57.6 kg	1.87.081.00
Polycarbonate	8	UV bronze 2850	57.6 kg	1.87.082.00

Wire net, Alu








Application

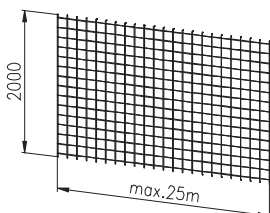
For protective coverings and partition walls

Comments

Mounting in the profile:

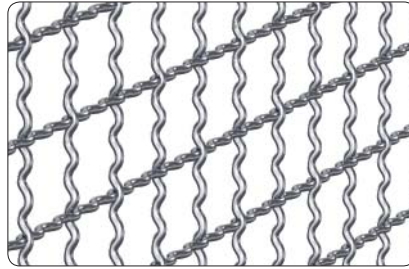
- with sponge rubber  1.41.6□□
- with wire net m. prof.  1.19.1423...
- with wedge profile  1.41.51E□.□
- with framing profile  1.41.710.□
- with mounting sockets  1.81.510□□

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

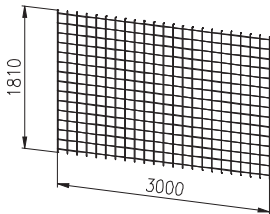
For protective coverings and partition walls

Comments

Mounting in the profile:

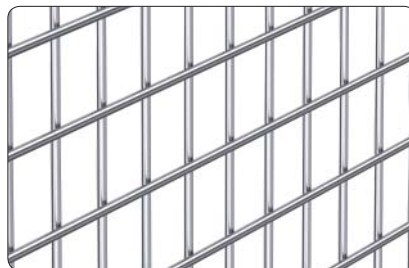
- with sponge rubber ➤ 1.41.6□□
- with wire net m. prof. ➤ 1.19.1423...
- with wedge profile ➤ 1.41.51E□.□
- with framing profile ➤ 1.41.710.□
- with mounting sockets ➤ 1.81.510□□

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

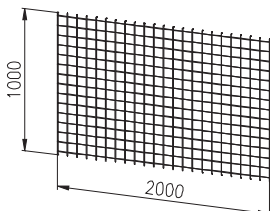
For protective coverings and partition walls

Comments

Mounting in the profile:

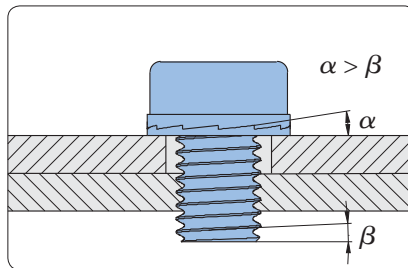
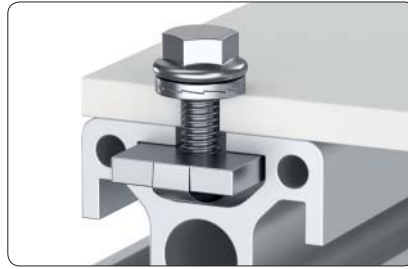
- with sponge rubber ➤ 1.41.6□□
- with wire net m. prof. ➤ 1.19.1423...
- with wedge profile ➤ 1.41.51E□.□
- with framing profile ➤ 1.41.710.□
- with mounting sockets ➤ 1.81.510□□

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

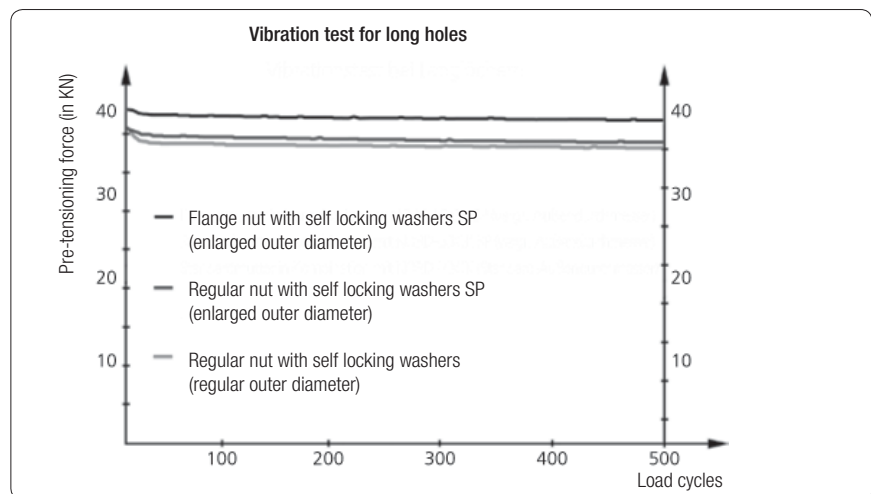


The cam angle α of the washers is larger than the thread pitch β of the bolt.

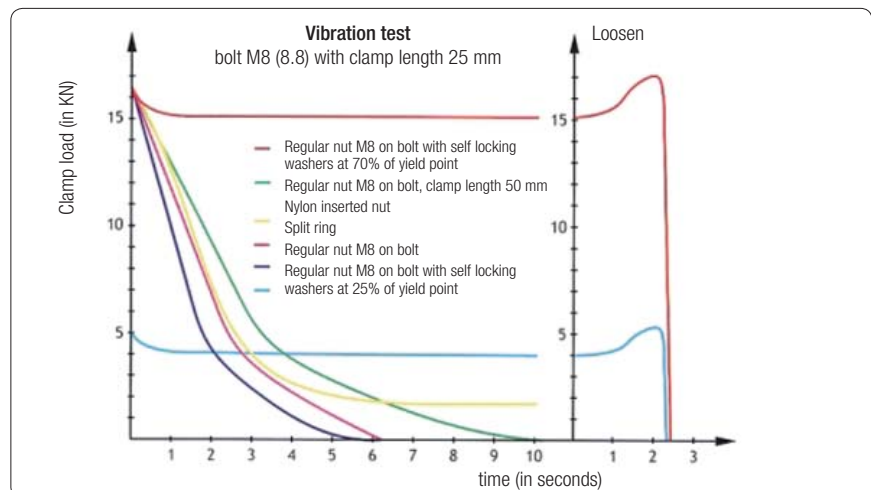
Advantages

- 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.

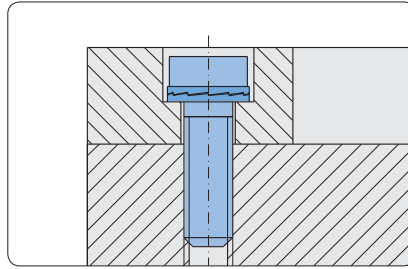


Junker vibration test for bolt M12 (8.8)



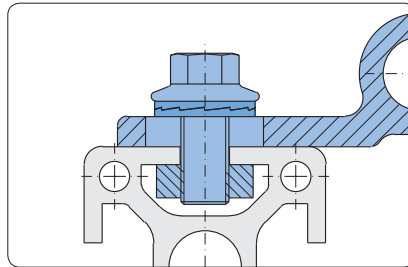
Test results

Self locking washers
standard

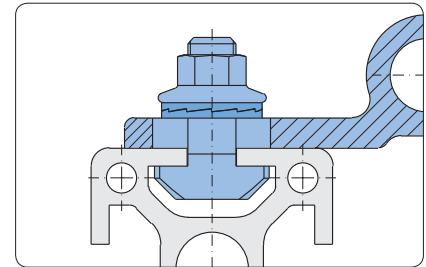


Cylindrical head screw DIN 6912 with self locking washers, standard

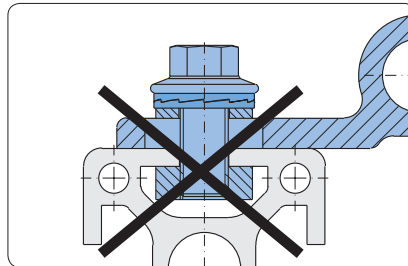
Self locking washers SP
(enlarged outer diameter)



Hexagonal flange head screw DIN 6912 and self locking washers SP



T-screw with flange nut DIN 6923 and self locking washers SP

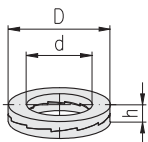


Do not use washers that are not secured in position

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

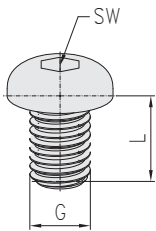


Application

Button head screws for the mounting of additional elements

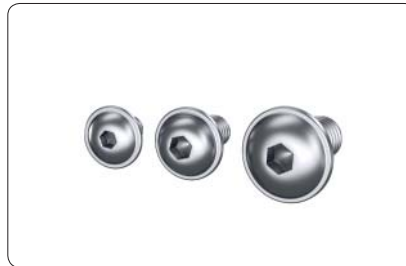
Technical data

material: steel
surface: galvanised



Description	G×L	SW	Weight	Article-No.
Button head screw	M5×12	3	2.4 g	0.63.WN7380.05012
Button head screw	M8×12	5	6.5 g	0.63.WN7380.08012
Button head screw	M8×18	5	8.5 g	0.63.WN7380.08018
Button head screw	M8×30	5	12.6 g	0.63.WN7380.08030

Lens head screws

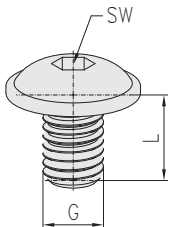


Application

Lens head screws for the mounting of additional elements

Technical data

material: steel
surface: galvanised



Description	G×L	SW	Weight	Article-No.
Lens head screw	M5×6	3	2.0 g	0.63.WN7381.05006
Lens head screw	M5×8	3	2.0 g	0.63.WN7381.05008
Lens head screw	M6×10	4	3.0 g	0.63.WN7381.06010
Lens head screw	M6×12	4	4.0 g	0.63.WN7381.06012
Lens head screw	M8×12	5	8.0 g	0.63.WN7381.08012
Lens head screw	M8×16	5	9.0 g	0.63.WN7381.08016

Press in device
for knurled cross bushing



Technical data

Base body:

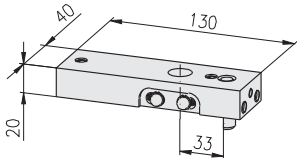
- material: aluminium
- surface: natural anodised

Axle bolt, spring:

- material: stainless steel

Other:

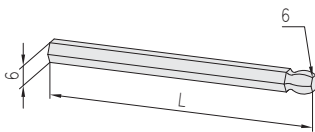
- material: steel
- surface: galvanised



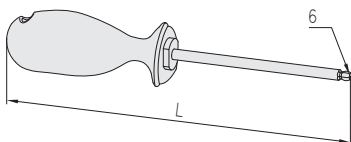
Description	Weight	Article-No.
Press in device for knurled cross bushing	310.0 g	1.98.11.21.B00R

Single parts	Pcs	Weight	Article-No.
Base body	1	216.0 g	1.98.11.21.B00R/01
Stopping pin	1	21.2 g	1.99.01112-05
Set screw for stop pin	1	1.8 g	1.99.01112-06
Dowel pin ISO 8752 (DIN 1481), 8×24 (for drill jig)	2	6.5 g	0.69.I08752.08024
Axle bolt complete, Ø8g 6×35 mm	2	15.6 g	1.98.11.21.B00R/05
Hex-socket set screw, DIN 913, M8×25	4	6.6 g	0.63.D00913.08025
Spring for T-screw, E	4	0.1 g	1.34.E00/02

Hexagonal tools

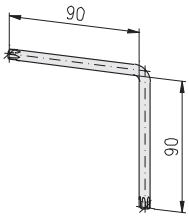


Description	L	Drive	Weight	Article-No.
Hexagonal bit with ballhead wrench size 6	100	6	23 g	1.98.IN.SW6.100



Description	L	Weight	Article-No.
Hexagonal screwdriver with ballhead wrench size 6	215	122 g	1.98.IN.SW6.215

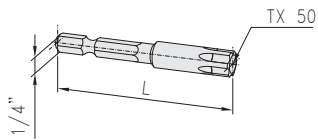
Torx® Tools



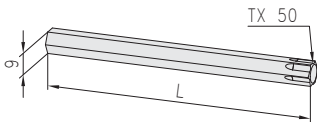
Technical data

material: steel, hardened
 surface: nickel-plated

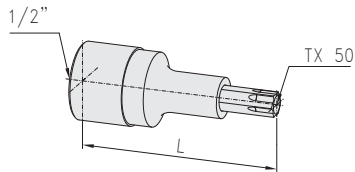
Description	Weight	Article-No.
Tx screw driver for TX 40 screws	54 g	1.98.T40.090090



Description	L	Drive	Weight	Article-No.
Screw bit TX 50	50	C 6.3 (1/4")	16 g	1.98.TX50A1/4



Description	L	Drive	Weight	Article-No.
Screw bit TX 50	95	9	49 g	1.98.TX50A09



Description	L	Weight	Article-No.
Screwdriver insert TX 50	55	72 g	1.98.TX50A1/2

Cross bushings / Anchors			Drill								Milling cutter								
			MK		cylindrical shaft						cylindrical shaft								
			1.99.03115452	1.99.03115454	1.99.0310800	1.99.0310645	1.99.03109000	1.99.03109452	1.99.0311245	1.99.03215452	1.99.03215454	1.99.0210645	1.99.02109000	1.99.02109452	1.99.02112451	1.99.02115000	1.99.02115452	1.99.02115454	
drill-Ø	chamfer ×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	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	3.5
			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	16.0
Cross bushing																			
H F E	Standard							●						●					
H F E	for profile 20×20, soft							●						●					
H F E	Standard		●								●						●	●	
H F E	for profile • 30×30, soft • 30×100 • 30×150			●										●					●
H F E	for profile 40×40, 2E 45°, LP			●										●					●
H F E	for ST-Connector, profile 30×150		●	●								●	●					●	●
H F E	for SE-Connector																	●	
H F E	for ST-Connector		●									●						●	●
H F E	for ST-Connector with anchor, screw-type														●				
Anchor																			
H F E	for connector, parallel					●								●					
H F E	for connector, parallel									●					●				
H F E	for connector, miter, hinge				●														

**Drill jigs
for profiles with H-slots**



Drill jig with setscrew



Drill jig with clamping lever

Application

Tools for precise machining of connection bore

- for drilling machine: - drill jig
- drill
- for milling machine: - milling cutter
- the drill jig is located and fastened in the profile slot
- suitable for any profile angle cut

Technical data

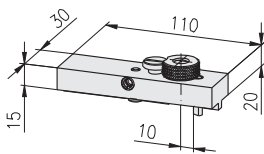
Base body:

- material: aluminium
- surface: natural anodised

Drill bush:

- material: steel
- surface: hardened and polished

**Drill jig
with setscrew**

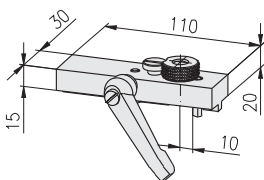


Description	Weight	Article-No.
Drill jig H with setscrew	189 g	1.99.01011
Single parts		
Weight	Article-No.	
Base body	120 g	1.99.01012-01
Drill bush for cross bushing, Ø9.2	50 g	1.99.01012-03
Safety screw for drill bush, M6×4	6 g	1.99.01012-04
Stop pin	2 g	1.99.01012-05
Connector	11 g	1.20.3/2H5

Accessories

Drill bush for parallel-anchor, Ø6.2	43 g	1.99.01012-02
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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	Article-No.	
Base body	120 g	1.99.01012-01
Drill bush for cross bushing, Ø9.2	50 g	1.99.01012-03
Safety screw for drill bush, M6×4	6 g	1.99.01012-04
Stop pin	2 g	1.99.01012-05
Connector	11 g	1.20.3/2H5
Clamping lever 65, for connector, M6×20	36 g	1.29.650620

Accessories

Drill bush for parallel-anchor, Ø6.2	43 g	1.99.01012-02
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Tools
for profiles with H-slots

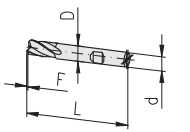


Drill, Milling cutter

Comments
Selection range ↗ 333

Milling cutter

- for • parallel-anchor
- cross bushing



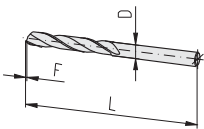
Technical data

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



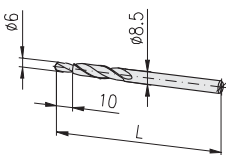
Technical data

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



Drill jig with clamping lever

Application

Tools for precise machining of connection bore

- for drilling machine: - drill jig
- drill
- for milling machine: - milling cutter
- the drill jig is located and fastened in the profile slot
- suitable for any profile angle cut

Technical data

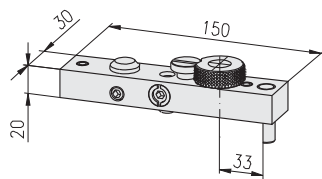
Base body:

- material: aluminium
- surface: natural anodised

Drill bush:

- material: steel
- surface: hardened and polished

Drill jig
with setscrew

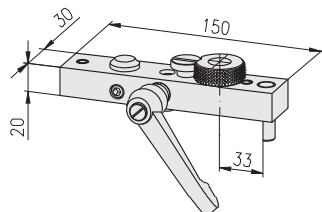


Description	Weight	Article-No.
Drill jig FE with setscrew	375 g	1.99.01111
Single parts		
Base body	188 g	1.99.01112-01
Drill bush for cross bushing, Ø15.25	105 g	1.99.01112-03
Safety screw for drill bush, M8×5.5	11 g	1.99.01112-04
Stop pin	19 g	1.99.01112-05
Setscrew for stop pin	2 g	1.99.01112-06
Connector, parallel-high	30 g	1.21.31/2F5
Anchor	20 g	1.21.A2E5

Accessories

Drill bush for parallel-anchor, Ø12.2	90 g	1.99.01112-02
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Drill jig
with clamping lever



Description	Weight	Article-No.
Drill jig FE with clamping lever	438 g	1.99.01112
Single parts		
Base body	188 g	1.99.01112-01
Drill bush for cross bushing, Ø15.25	105 g	1.99.01112-03
Safety screw for drill bush, M8×5.5	11 g	1.99.01112-04
Stop pin	19 g	1.99.01112-05
Setscrew for stop pin	2 g	1.99.01112-06
Connector, parallel-high	30 g	1.21.31/2F5
Anchor	20 g	1.21.A2E5
Clamping lever 80, for connector, M10×20	63 g	1.29.801020

Accessories

Drill bush for parallel-anchor, Ø12.2	90 g	1.99.01112-02
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Tools
for profiles with F- and E-slots

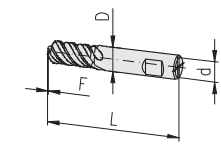


Drill, Milling cutter

Comments
Selection range ↗ 333

Milling cutter

- parallel-anchor
- cross bushing



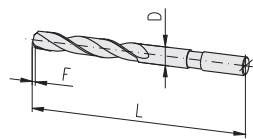
Technical data

material: HSS
3 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	d	Weight	Article-No.
Milling cutter f. cr. bush. ST, 4	Ø12.2	83	1×45°	Ø12	60 g	1.99.02112451
Milling cutter f. cross bush. SE	Ø15.2	93	without	Ø16	116 g	1.99.02115000
Milling cutter f. cross bush.	Ø15.2	93	1.5×45°	Ø16	116 g	1.99.02115452

Drill

for parallel-anchor



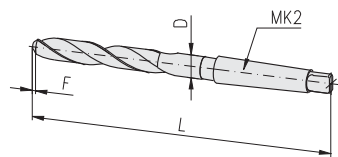
Technical data

material: HSS
2 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	Weight	Article-No.
Drill for parallel-anchor	Ø12.2	147	2×45°	93 g	1.99.0311245

Drill

for cross bushing



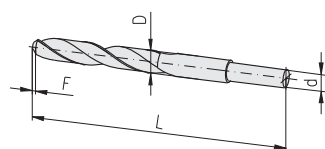
Technical data

material: HSS
2 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	Weight	Article-No.
Drill for cross bushing, MK2	Ø15.25	210	1.5×45°	224 g	1.99.03115452

Drill

for cross bushing



Technical data

material: HSS
2 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

Description	D	L	F	d	Weight	Article-No.
Drill for cross bushing	Ø15.25	173	1.5×45°	Ø12	197 g	1.99.03215452

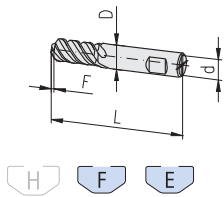
Tools
for profiles with F- and E-slots



Drill, Milling cutter

Comments
Selection range ↗ 333

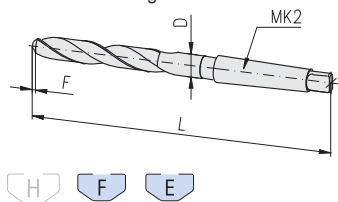
Milling cutter
for cross bushing



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

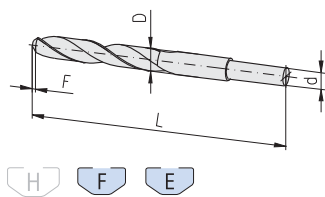
Drill
for cross bushing



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

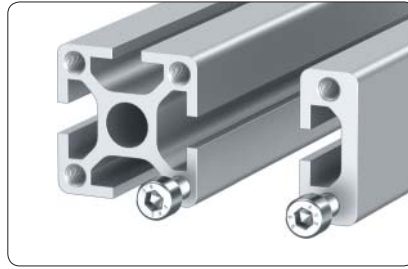
Drill
for cross bushing



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

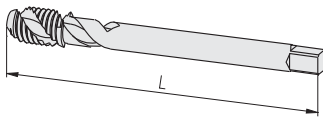
**Screw taps
for aluminium machining**



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

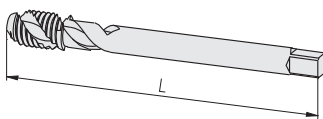
Description	G	L	Weight	Article-No.
Screw tap	M6	80	45 g	1.99.0406080



Application

Mounting threads in profile centre core hole
Ø6.2 mm

**Screw tap
M8**



16 20 30 40 45 50 60

Technical data

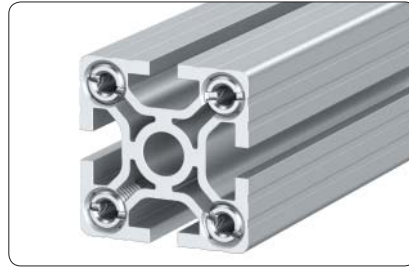
material: HSS/E

machine threading tap:

- right hand cutting, 40° right spiral fluted
- enlarged chip flute
- 3-pitch thread start
- tolerance class: 6H

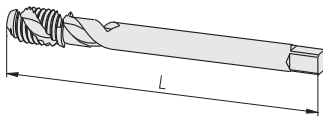
Description	G	L	Weight	Article-No.
Screw tap	M8	90	52 g	1.99.0408090

**Screw taps
for aluminium machining**



Application
Fastening thread in hollow chambers of profiles PG 50

**Screw tap
M12**

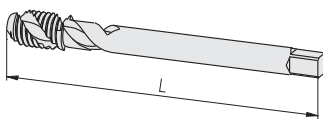


Technical data

- material: HSS/E
machine threading tap:
- right hand cutting, 40° right spiral fluted
 - enlarged chip flute
 - 2-pitch thread start
 - tolerance class: 6H

Description	G	L	Weight	Article-No.
Screw tap	M12	110	65 g	1.99.0412110

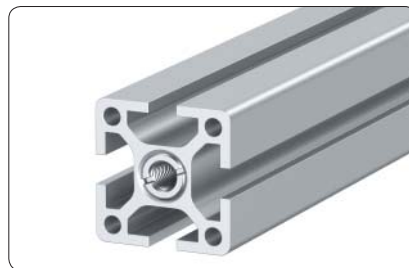
**Screw tap
M14**



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
Screw tap	M14	150	105 g	1.99.0414150



Application
Mounting threads in profile centre core hole Ø12 mm

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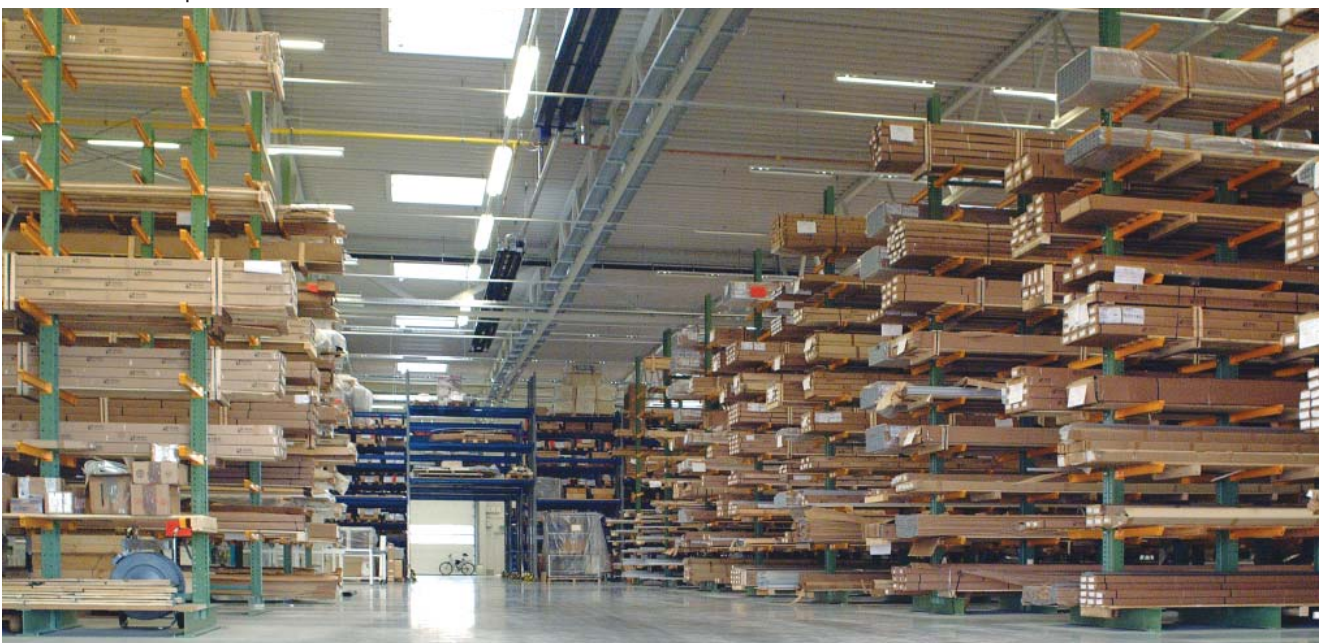
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