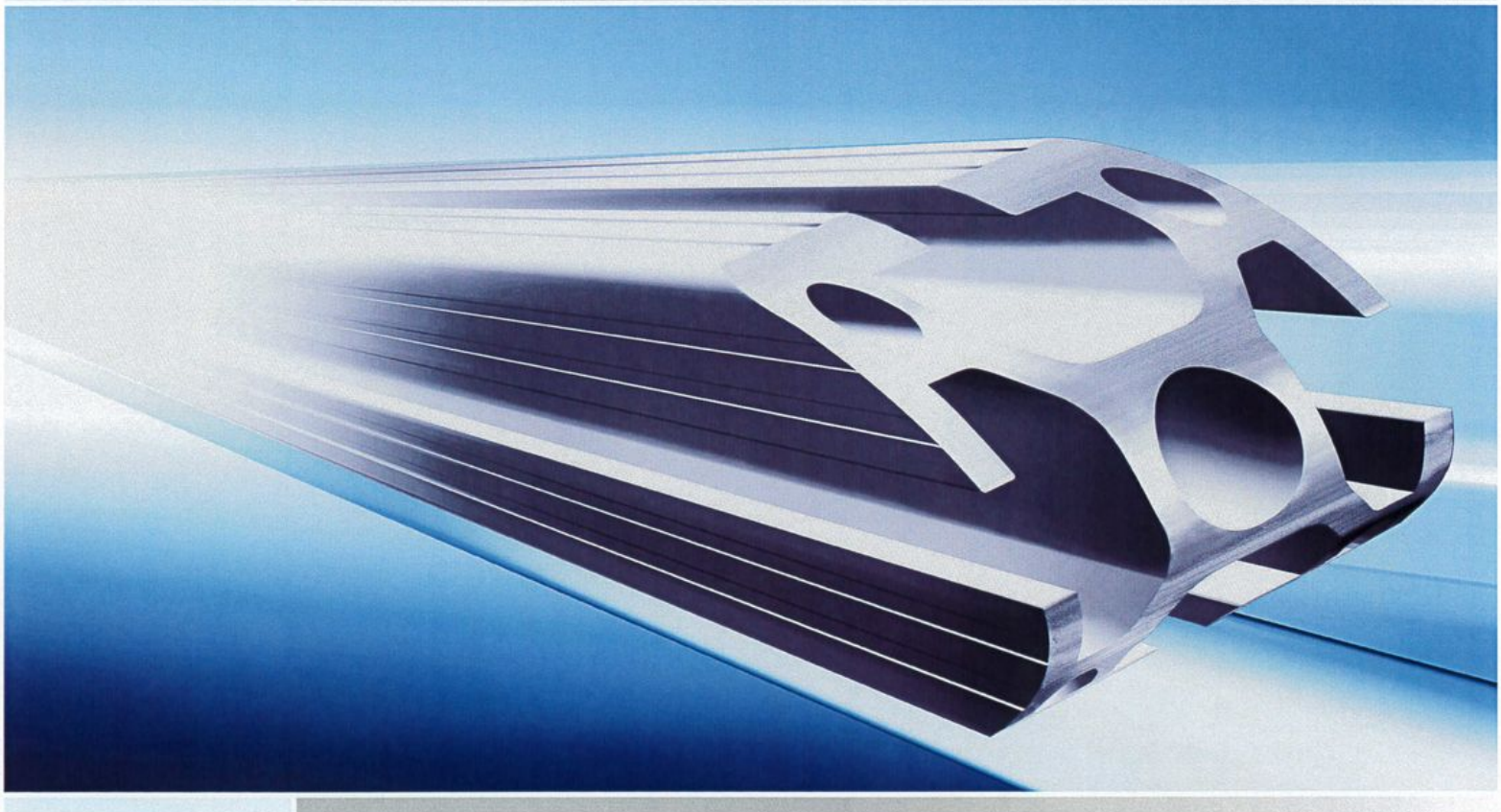
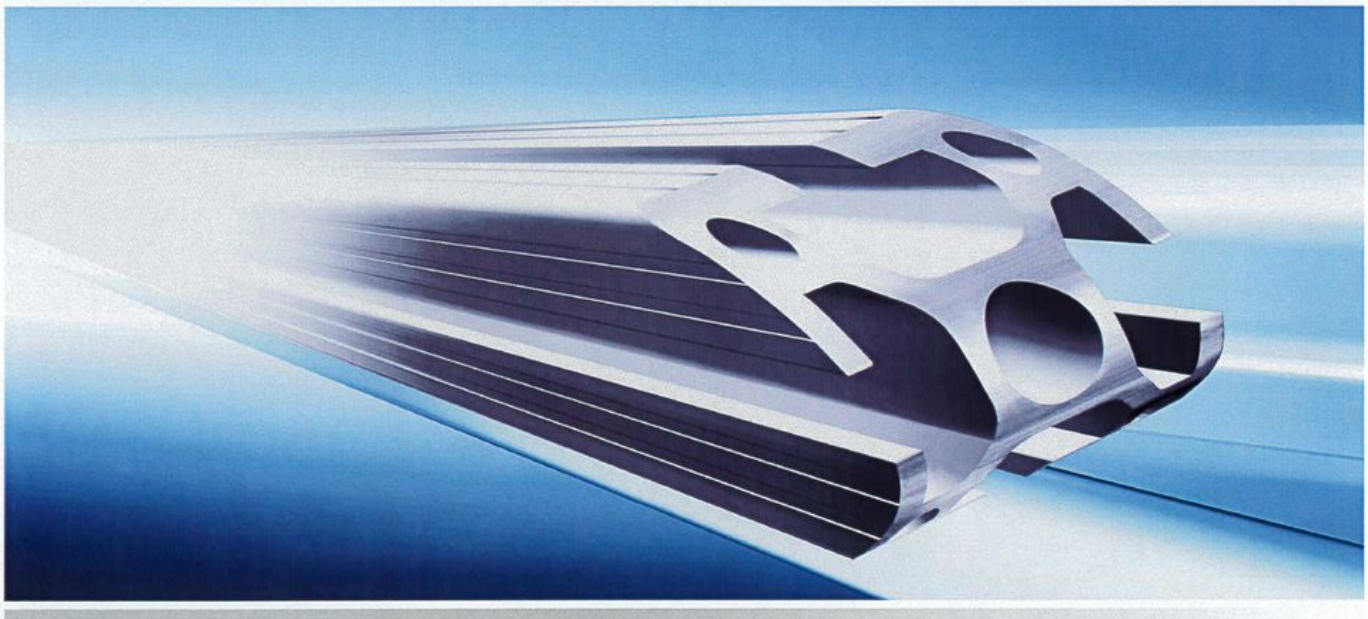


» The Profile System

GB
1/2023

MayTec®

The key ...



» The Profile System

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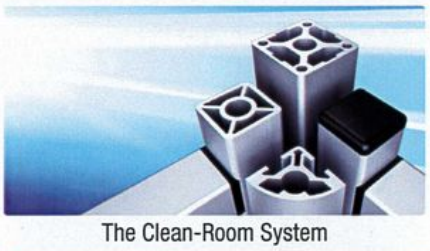
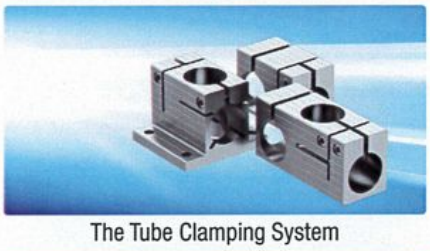
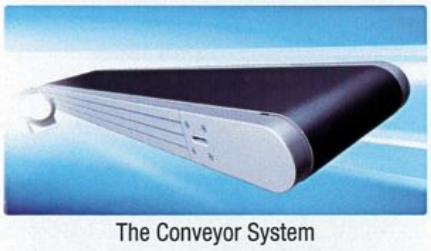
Design Software

The Profile System


The Clean-Room System

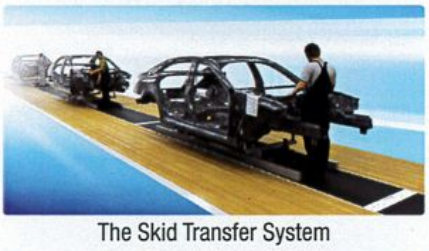

The Tube Clamping System

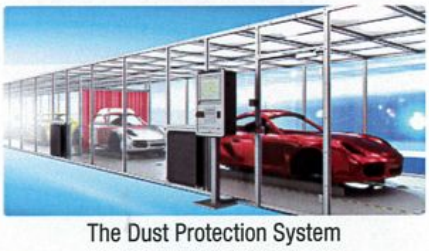

The Conveyor System

The Telescopic System

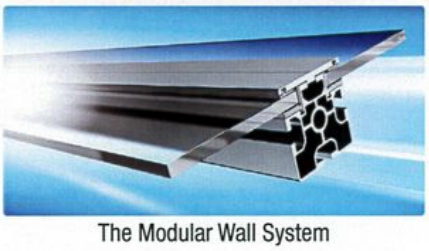
The Linear System

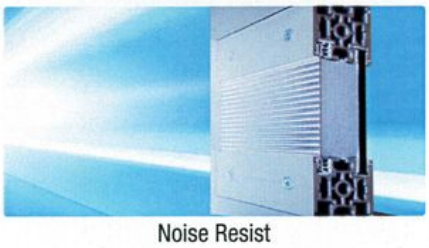
The Personnel Transfer System


The Skid Transfer System


The Dust Protection System

Safety Barriers


The Modular Wall System


Noise Resist

» The Pipe & Joint System

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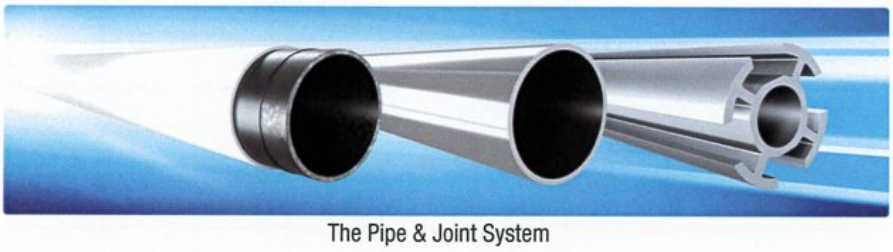
MayTube
Design Software


The Pipe & Joint System

The Trailer System

The ideal modular system

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

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

Service

The MayTec service is as versatile as the MayTec modular system.
You may choose:

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

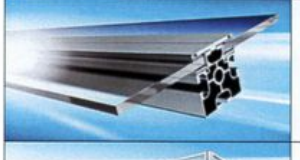
Implementation

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

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

Applications

- assembly and inspection stations
- display systems
- exhibition cabinets and stands
- FiFo shelves
- flow shelves
- machine bases
- machine enclosures
- machine guarding
- partitions and protective walls
- plant equipment
- protective and work cabinets
- sequence trolleys
- special shelves
- transfer and supply trolleys
- work stations

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

Download at http://maytec.com.de

Offline

MayCAD
Design Software

3D CAD-Tool for
The Profile System

3D configuration module for
The Conveyor System

Free download at:
http://maytec.com.de/index.php?id=21

Online

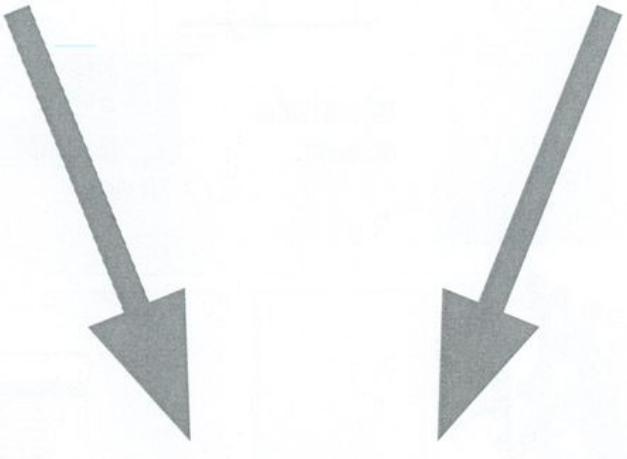
MayTube
Design Software

3D CAD-Tool for
The Pipe & Joint System

Link:
https://may-tube.com

System requirements

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



In preparation:

Offline

MayCAD
Design Software

3D CAD-Tool for
The Profile System and The Pipe & Joint System

3D configuration module for
The Conveyor System

MayCAD
Design Software

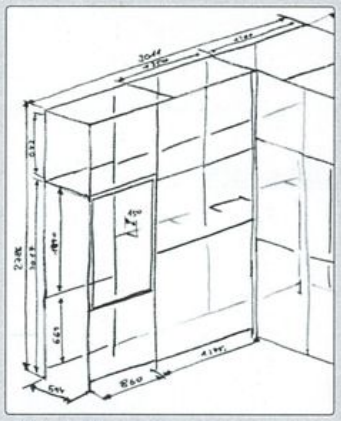
Offline 3D CAD-Tool

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

Sample

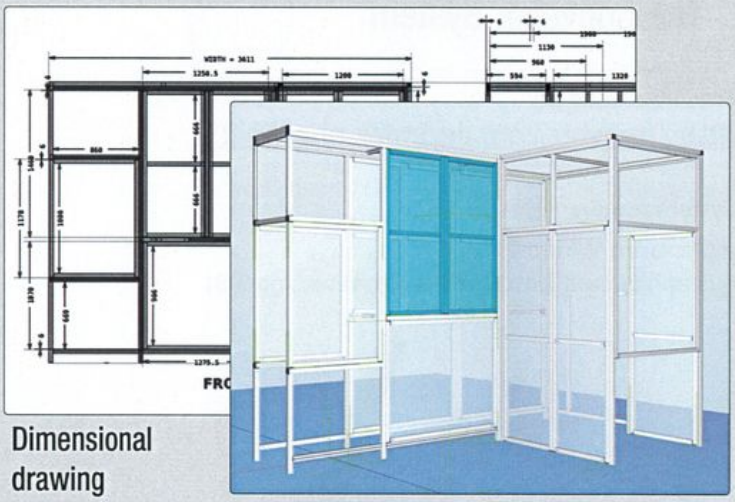
Machine enclosure

Complete in 20 min. ... Ready



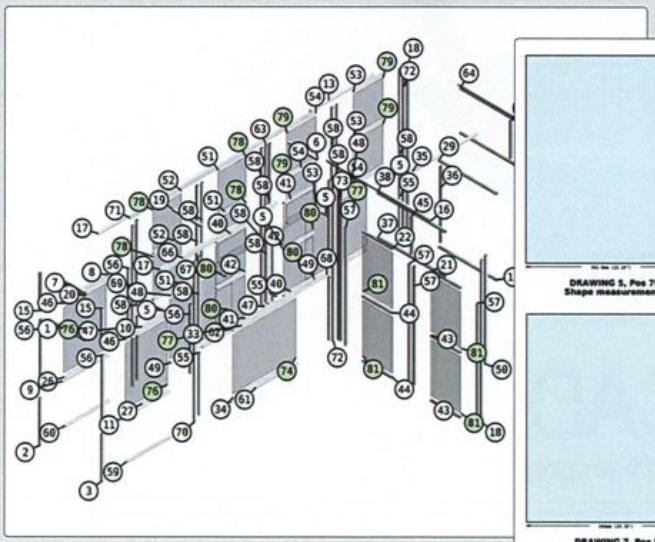
Hand sketch

Input in MayCAD

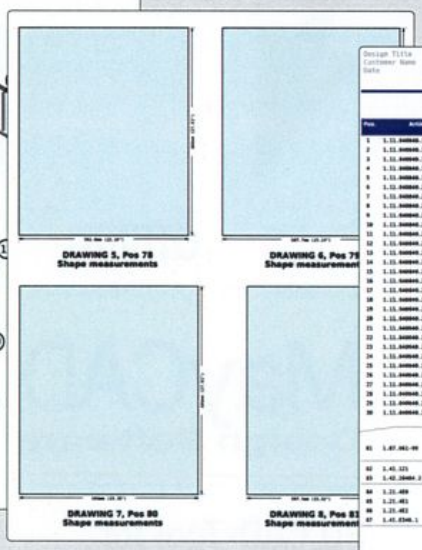


Dimensional drawing

3D view



Exploded view with part numbers



Detailed drawings for all panel elements

Parts list with calculations

MayCAD

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

MayCAD
Design Software

- Free to use
- Easy to install
- Export function for 3D model

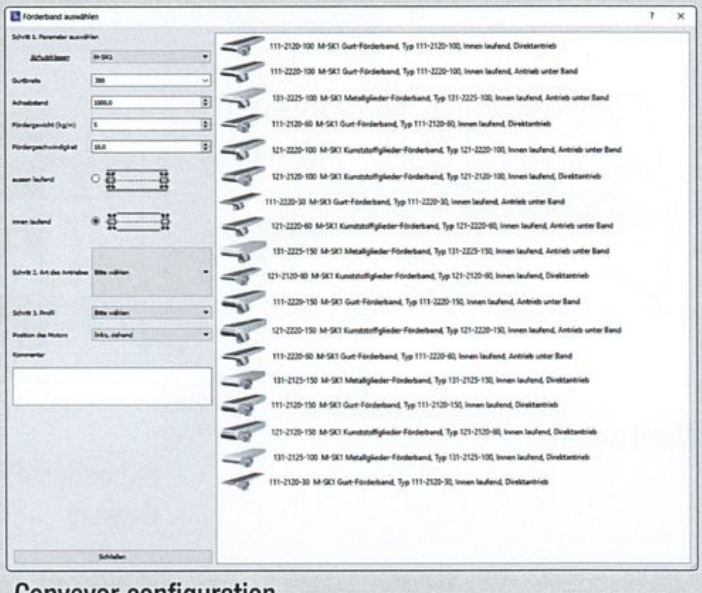
Offline 3D configuration module
for layout planning

Sample

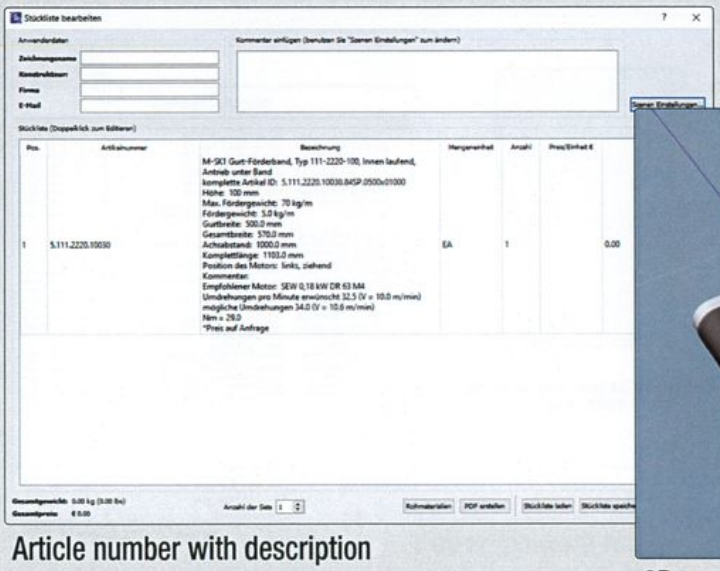
M-SK1 Belt conveyor
Type 111-2220-100
- running inside
- drive under belt

Complete in 2 min. ... Ready

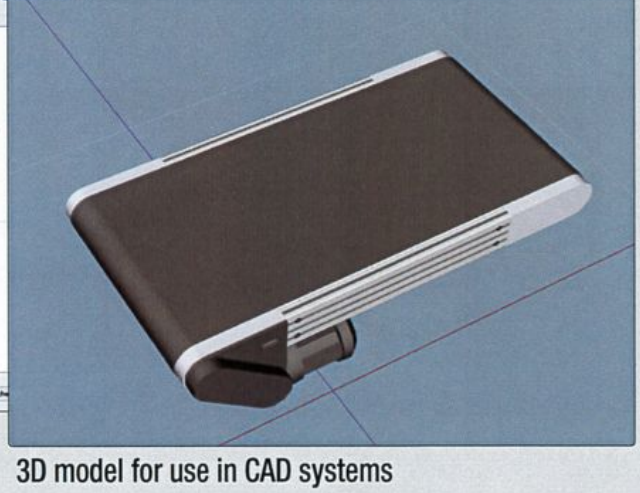
Configuration in **MayCAD**



Conveyor configuration



Article number with description



3D model for use in CAD systems

MayCAD

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

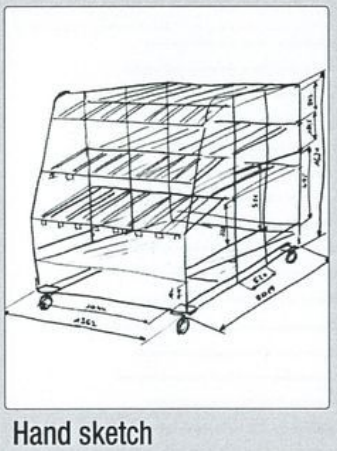
MayTube
Design Software

Online 3D CAD-Tool

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

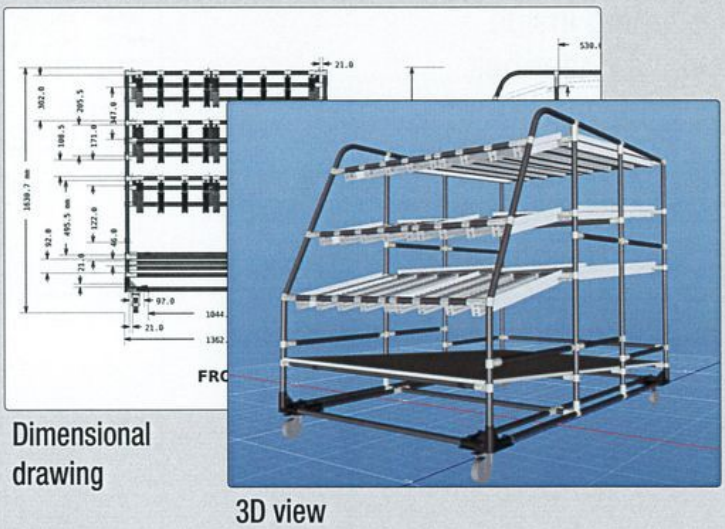
Sample

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



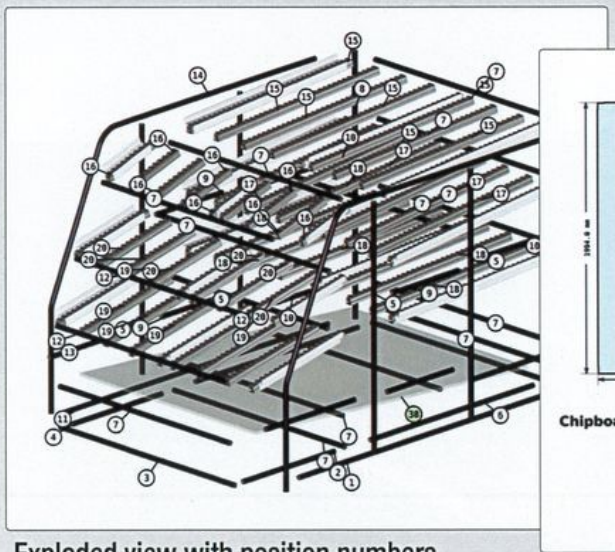
Hand sketch

Input in MayCAD

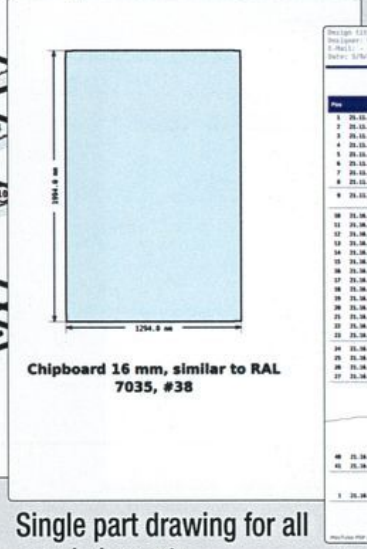


Dimensional drawing

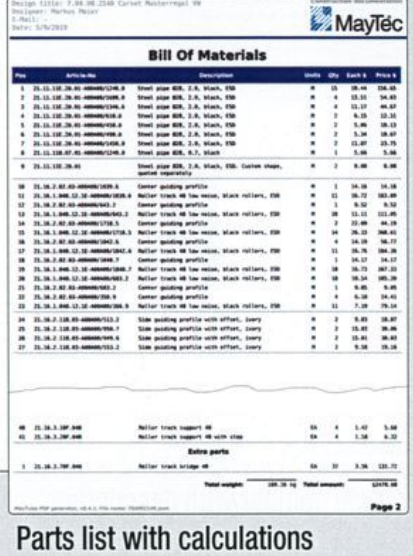
3D view



Exploded view with position numbers



Single part drawing for all panel elements



Parts list with calculations

MayTube
https://may-tube.com

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1.8	**Panel elements**	**8.01**
1.8	Summary: Panel elements	8.01
1.81	Corner elements	8.02
1.81	Corner element 33	8.03
1.81	Mounting sockets	8.04
1.82	Panel elements	8.05
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1.9	**Washers, screws and tools**	**9.01**
1.9	Summary: Washers, screws and tools	9.01
1.90	Self locking washers	9.02
1.90	Button head screws	9.04
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Article number group		Page
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1.99	Summary: Tools for cross bushings and anchors	9.07
1.99	Drill Jigs	9.08, 9.10
1.99	Milling cutters	9.09, 9.11
1.99	Drills	9.09, 9.11
1.99	Tools: Special cases	9.12
1.99	Screw taps	9.13
	Subject index	**A.01**

General

Profile group

16 mm, 20 mm, 30 mm, 40 mm, 45 mm, 50 mm, 60 mm
The profiles of the MayTec Profile System are divided into seven **profile groups** (**PG**). They can be determined by the basic measure of each profile.

Slot

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

Symbols

Many articles (fastening elements, accessories and tools) can only be used especially for individual profile groups or slot types.
In this case these articles are marked with the corresponding symbols.

Profile group
dark symbol: suitable for the corresponding profile group
light symbol: not suitable

Slot type
dark symbol: suitable for the corresponding slot type
light symbol: not suitable

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

Cut
These articles are offered with cut.

Stainless steel
These articles are made of stainless steel.

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

ESD
ESD protection

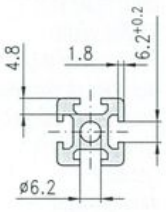
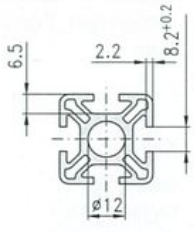
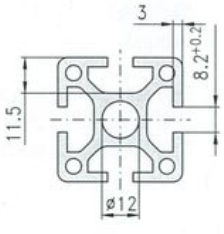
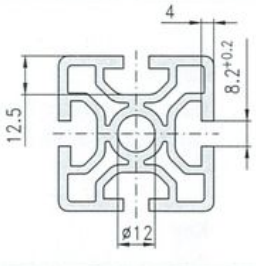
Attention!
Important notice

Abbreviations

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

Special characters

□	**Placeholder**	**Example**	**identifies the articles:**
	Article-No.	1.41.5□□.□	1.41.5F0.1 1.41.5F0.2 1.41.5E0.1 1.41.5E0.2
☛	**Reference**	**Example**	**reference to**
		☛ *117*	*catalogue page 117*
		☛ *1.41*	*article number group 1.41*
		☛ *1.41.5F0.1*	*article 1.41.5F0.1*
		☛ *1.41.5□□.□*	*group of articles 1.41.5□□.□*

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

Profiles

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

[1] 0 = 6.2 mm
1 = 12 mm

[2] 2-digit off 10 slots

[3] 0 = round
1 = Soft
2 = Corner
3 = Cubic
4 = Rectangle
7 = Angle
8 = Angle 45°
9 = Special

Connectors
- general

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

[1] 0 = 6.2 mm
1 = 12 mm

[2] 2 = 20 mm
3 = 30 mm
4 = 40 mm
45 = 45 mm
5 = 50 mm
6 = 60 mm

[3] E = E-head
F = F-head
H = H-head
V = Extension

[4] 0 = Universal / Neutral
1 = Standard
2 = Standard 90°
4 = Square head
5 = Parallel

-Oblique-hinge

1.2 □ . □□□□□	Key
1.2 □ . □□K□□	Oblique-connector, hinge
1.2 □ . □□□□□	Connection-variant [1]
1.2 □ . □□□□V	Stainless

[1] 1 = Standard
2 = Standard 90°

-Oblique-bent anchor

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

[1] 1 = Standard
2 = Standard 90°

-Miter-hinge

1.2 □ . □□□□	Key
1.2 □ . □G□□	Miter-connector, hinge
1.2 □ . □□□□	Connection-variant [1]
1.2 □ . □□□V	Stainless

[1] 1 = Standard
2 = Standard 90°

-Miter-bent anchor

1.2 □ . □□□□ / □□□	Key
1.2 □ . □G□□ / □□□	Miter-connector
1.2 □ . □□B□ / □□□	Bent design
1.2 □ . □□□□ / □□□	Connection-variant [1]
1.2 □ . □□□□ / □□□	Angle
1.2 □ . □□□□ / □□V	Stainless

[1] 1 = Standard
2 = Standard 90°

-Screw-type

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

[1] 1 = Standard
2 = Parallel 20 mm
3 = Parallel 30 mm
4 = Parallel 40 mm
5 = Parallel 50 mm

plain | plain | plain | plain

16 plain

F 16×40 — L: 1F LP; S — 1.08

E 16×40 16×80 16×160 16×40 16×80 — L: 1E LP, 2E LP, 4E LP; S: 1E SP, 2E SP — 1.07

20 plain

H 20×20 20×40 — L: 2H LP, 4H LP, 6H LP; S: 2H s.SP, 2H c.SP, 3H SP, 4H SP, 4H SP, 6H SP — 1.09 1.10

F 20×10 20×30 — L: 1F LP, 1F LP, 2F LP; S: 1F SBP, 2F SP — 1.11

30 plain

F 30×30 30×50 30×60 30×100 30×150 — L: 1F LP, 2F c.LP, 2F LP, 3F LP, 4F LP, 4F LP, 6F LP; S: 2F s.SP, 0F SP, 1F SP, 2F c.SP, 2F c.SBP, 2F SP, 3F SP, 4F SP, 4F SP, 0F SP, 6F SP, 3F SP, 8F SP, 10F SP, 8F SBP — 1.12 1.13 1.14 1.15

E4 30×150 — 8E SP — 1.15

40 plain

E3 40×40 40×80 40×120 40×160 80×80 — L: 2E s.LP, 1E LP, 2E c.LP, 2E LP, 3E LP, 4E LP, 0E LP, 3E c.LP, 4E LP, 4E LBP, 5E LP, 6E LP, 8E LP, 6E LP, 10E LP, 0E LP, 4E c.LP, 6E LP, 8E LP; 40 r.30° 40 r.45° 40 r.60° 40 r.90°: F 2F LP, 2E LP, 2E LP, 2E LP; 40×40: 2E 45° LP, 7E 45° LP; S: 0E SP, 2E c.SP, 3E SP, 4E SP, 6E SP, 7E SP, 8E SP — 1.16 / 1.22 1.17 / 1.22 1.18 1.19 1.20 / 1.23

45 plain

E4 45×45 45×60 45×90 90×90 — L: 2E s.LP, 0E LP, 1E LP, 2E c.LP, 2E LP, 3E LP, 4E LP, 4E LP, 0E LP, 6E LP, 8E LP; S: 4E SP, 0E SP, 8E SP — 1.24 1.25 1.26

50 plain

E4 50×50 50×100 100×100 — L; S: 4E SP, 6E SP, 8E SP — 1.27

60 plain

E4 60×60 — L: 2E LP, 4E LP; S: 2E c.SP, 2E SP, 4E SP — 1.28

plain

plain

without grooves

grooves

with grooves

grooves

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

L	light
S	heavy
P	plain
B	type B

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

1

30

F

30×30 | 30×50 | 30×60 | 60×60

L: 2F E.L, 3F L, 4F L, 4F L, 6F L, 8F L

S: 2F c.S, 2F c.SB, 3F S, 4F S, 4F S, 6F S, 8F a.S

1.30 1.31

40

E3

40×40 | 40×80 | 40×120 | 80×80 | 80×160

L: 2E s.L, 2E c.L, 2E L, 3E L, 4E L, 4E L, 6E L, 8E L, 8E L, 8E LB, 12E L

S: 2E c.S, 3E S, 4E S, 6E S, 8E S, 8E a.S

1.32 1.33 1.34

80×80 | 80×120 | 80×160 | 120×120

8E LBP, 8E LP, 12E LP, 8E a.SP, 10E SP, 8E SP, 12E SP, 12E SP

1.21

45

E4

45×45 | 45×60 | 45×90

L: 4E L, 4E L, 6E L

S: 4E S, 6E S

1.35

50

E4

50×50 | 50×100 | 50×150 | 100×100

L: 3E L, 4E L, 6E L, 8E L, 8E L

S: 2E s.S, 2E c.S, 3E S, 4E S, 6E S, 8E S, 8E S

1.36 1.37

100×200

12E SP

1.27

60

E4

60×60 | 60×90

L: 4E L, 6E L

S: 4E S, 6E S

1.38

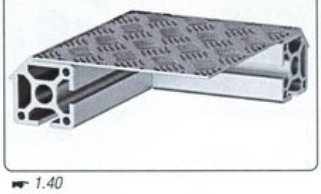
Profiles octagonal

1.39

Telescopic profiles

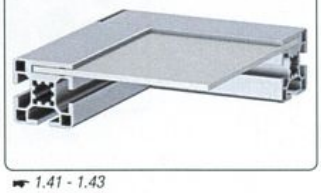
"The Telescopic System"

Panel bazel profiles



1.40

Panel profiles



1.41 - 1.43

30 plain

F — 30 octag.

L

S

8F SP

30×60

3F 45° LP

30×30

0F LP

2F c. LP 4

3F LP 4

30×50

3F LP 4

2F LP 5

2F LP 5

2F LP 6

40 plain

E3 — 40 octag.

L

S

8E SP

40×40

80×80

8E SBP

120×120

160×160

12E SP

16E SP

40×40

40×80

2E 45° SP

3E 45° SP

40×40

2E c. LP 4

3E LP 4

40×60

3E LP 4

60×80

5E LP 4

6E LP 4

45 plain

50 plain

E4

L

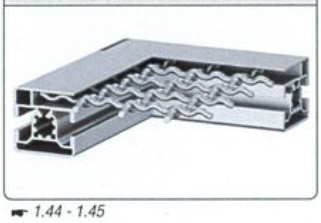
50×50

2E c. LP 4

3E LP 4

60 plain

Wire net profiles



1.44 - 1.45

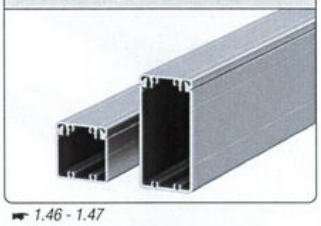
Modular wall system profiles

"The Modular Wall System"

E-trunking profiles

1.48

E-trunking profiles



1.46 - 1.47

30 plain

F

30×30 30×45

2F LP 7.5 2F LP 7.5

L

S

Lid 30

30×30

40 plain

E3

40×40 40×60

2E LP 7.5 2E 1F LP 7.5

L

S

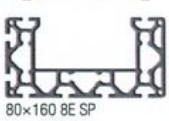
120×120

Lid 80

120×120 3E LP

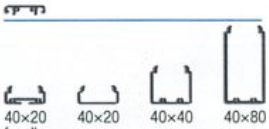
80×160

Profile pre-cut lid 120



80×160 8E SP

Lid 40



40×20 for clips 40×20 40×40 40×80

Lid 80

80×40 80×80

45 plain

E4

L

45×45

Compression profile

47.5×5 45×5 50×5

2E c.LP 4E LP 1E LP 4E LP

50 plain

60 plain

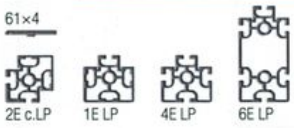
E4

L

57×57 60×57 60×117

Compression profile

57×4 60×4 61×4



2E c.LP 1E LP 4E LP 6E LP

120×120

60×4 with chamfer

4E a.LP

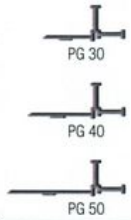
Profiles round

48 round

plain

☛ 1.39

19" profiles



☛ 1.49

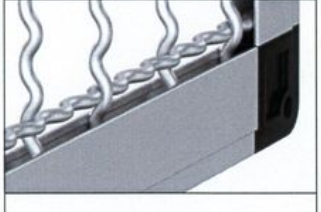
Tubes

☛ 1.50

Profile pre-cut lids

☛ 1.50

Wire net mounting profiles

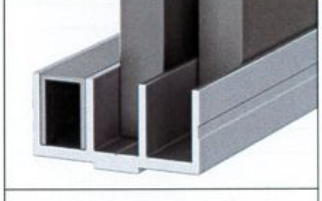


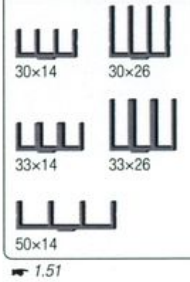
☛ 1.50

Grab handle profiles

☛ 1.50

Sliding profiles



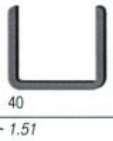


☛ 1.51

C-track

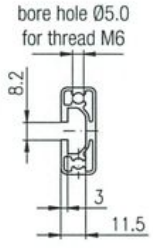
☛ 1.51

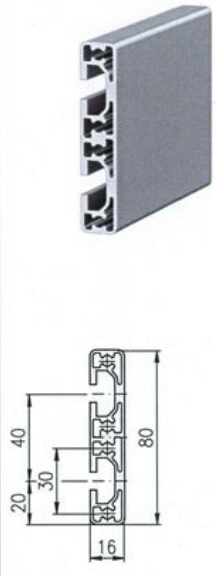
U-profile



☛ 1.51

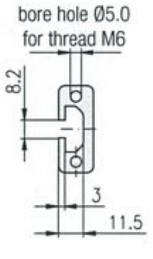
light

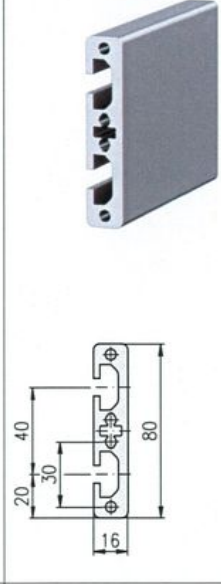




Description	Profile 16×40, 1E, LP	Profile 16×80, 2E, LP	Profile 16×160, 4E, LP	
bar, 6 m	1.09.016040.14LP.60	1.09.016080.24LP.60	1.09.016160.44LP.60	
packing unit (number)	1.09.016040.14LP.61 (20)	1.09.016080.24LP.61 (10)	1.09.016160.44LP.61 (5)	
moment of inertia cm^4 moment of resistance cm^3 weight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

heavy

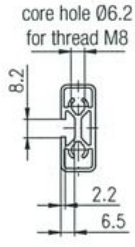


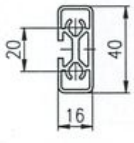


Description	Profile 16×40, 1E, SP	Profile 16×80, 2E, SP		
bar, 6 m	1.09.016040.14SP.60	1.09.016080.24SP.60		
packing unit (number)	1.09.016040.14SP.61 (20)	1.09.016080.24SP.61 (10)		
moment of inertia cm^4 moment of resistance cm^3 weight kg/m	I_x = 7.2 I_y = 1.1 W_x = 3.6 W_y = 1.1 G = 1.14	I_x = 48.3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

machining data ☛ *Profile machining 1.1A*

light





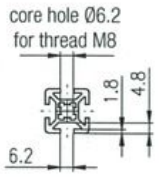
Description	Profile 16×40, 1F, LP			
bar, 6 m	1.10.016040.14LP.60			
packing unit (number)	1.10.016040.14LP.61 (20)			
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	I_x = 4.4 I_y = 0.8 W_x = 2.2 W_y = 0.8 G = 0.87			

heavy

Description				
bar, 6 m				
packing unit (number)				
moment of inertia cm⁴ moment of resistance cm³ weight kg/m				

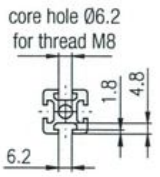
machining data ☛ *Profile machining 1.1A*

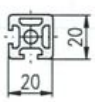
light

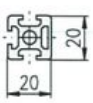


Description			Profile 20×20, 2H, LP	
bar, 6 m			1.10.020020.23LP.60	
packing unit (number)			1.10.020020.23LP.61 (10)	
moment of inertia cm⁴ moment of resistance cm³ weight kg/m			I_x = 1.0 I_y = 0.8 W_x = 1.0 W_y = 0.8 G = 0.58	

heavy



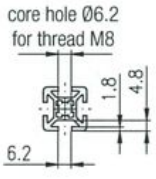


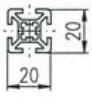


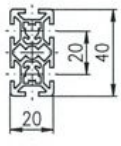
Description	Profile 20×20, 2H, soft, SP	Profile 20×20, 2H, corner, SP		Profile 20×20, 3H, SP
bar, 6 m	1.10.020020.21SP.60	1.10.020020.22SP.60		1.10.020020.33SP.60
packing unit (number)	1.10.020020.21SP.61 (10)	1.10.020020.22SP.61 (10)		1.10.020020.33SP.61 (10)
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	I_x = 0.6 I_y = 0.6 W_x = 0.6 W_y = 0.6 G = 0.52	I_x = 1.0 I_y = 1.0 W_x = 0.9 W_y = 0.9 G = 0.68		I_x = 0.9 I_y = 0.9 W_x = 0.9 W_y = 0.9 G = 0.65

machining data ☛ *Profile machining 1.1A*

light

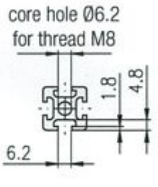


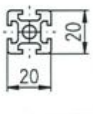


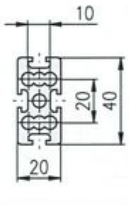


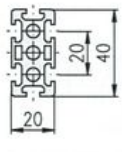
Description	Profile 20×20, 4H, LP		Profile 20×40, 6H, LP	
bar, 6 m	1.10.020020.43LP.60		1.10.020040.64LP.60	
packing unit (number)	1.10.020020.43LP.61 (10)		1.10.020040.64LP.61 (10)	
moment of inertia cm⁴	I_x = 0.8 I_y = 0.8		I_x = 5.3 I_y = 1.4	
moment of resistance cm³	W_x = 0.8 W_y = 0.8		W_x = 2.6 W_y = 1.4	
weight kg/m	G = 0.53		G = 0.9	

heavy





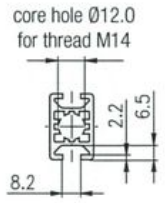


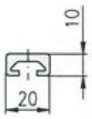


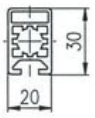
Description	Profile 20×20, 4H, SP	Profile 20×40, 4H, SP	Profile 20×40, 6H, SP	
bar, 6 m	1.10.020020.43SP.60	1.10.020040.44SP.60	1.10.020040.64SP.60	
packing unit (number)	1.10.020020.43SP.61 (10)	1.10.020040.44SP.61 (10)	1.10.020040.64SP.61 (10)	
moment of inertia cm⁴	I_x = 0.9 I_y = 0.9	I_x = 7.0 I_y = 2.0	I_x = 6.4 I_y = 1.7	
moment of resistance cm³	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	

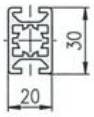
machining data ☛ *Profile machining 1.1A*

light



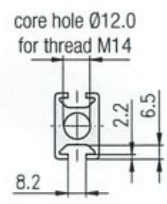


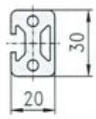


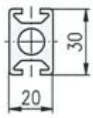


Description	Profile 20×10, 1F, LP	Profile 20×30, 1F, LP		Profile 20×30, 2F, LP
bar, 6 m	1.11.020010.14LP.60	1.11.020030.14LP.60		1.11.020030.24LP.60
packing unit (number)	1.11.020010.14LP.61 (10)	1.11.020030.14LP.61 (10)		1.11.020030.24LP.61 (10)
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	I_x = 0.1 I_y = 0.6 W_x = 0.2 W_y = 0.5 G = 0.35	I_x = 2.2 I_y = 1.4 W_x = 1.5 W_y = 1.4 G = 0.7		I_x = 2.2 I_y = 1.5 W_x = 1.5 W_y = 1.5 G = 0.74

heavy



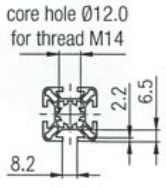


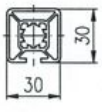


Description			Profile 20×30, 1F, SBP	Profile 20×30, 2F, SP
bar, 6 m			1.11.020030.14SBP.60	1.11.020030.24SP.60
packing unit (number)			1.11.020030.14SBP.61(10)	1.11.020030.24SP.61 (10)
moment of inertia cm⁴ moment of resistance cm³ weight kg/m			I_x = 3.9 I_y = 1.4 W_x = 2.6 W_y = 1.3 G = 1.2	I_x = 2.6 I_y = 1.9 W_x = 1.7 W_y = 1.7 G = 1.0

machining data ☛ *Profile machining 1.1A*

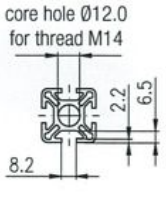
light

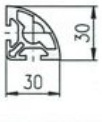


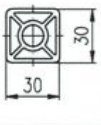


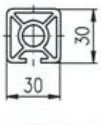
Description			Profile 30×30, 1F, LP	
bar, 6 m			1.11.030030.13LP.60	
packing unit (number)			1.11.030030.13LP.61 (10)	
moment of inertia cm⁴ moment of resistance cm³ weight kg/m			I_x = 3.1 I_y = 3.1 W_x = 2.1 W_y = 2.1 G = 0.9	

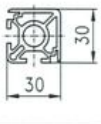
heavy











Description	Profile 30×30, 2F, soft, SP	Profile 30×30, 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 cm⁴ moment of resistance cm³ weight kg/m	I_x = 2.7 I_y = 2.7 W_x = 1.6 W_y = 1.6 G = 0.9	I_x = 4.4 I_y = 4.4 W_x = 2.3 W_y = 2.3 G = 1.3	I_x = 4.3 I_y = 4.0 W_x = 2.9 W_y = 2.6 G = 1.2	I_x = 3.7 I_y = 3.2 W_x = 2.4 W_y = 2.1 G = 1.1

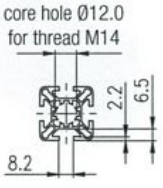
machining data ☛ *Profile machining 1.1A*

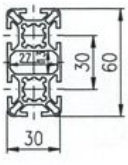
Profile 30×30, 2F, corner, LP	Profile 30×30, 2F, LP	Profile 30×30, 3F, LP	Profile 30×30, 4F, LP	Profile 30×50, 4F, LP
1.11.030030.22LP.60	1.11.030030.23LP.60	1.11.030030.33LP.60	1.11.030030.43LP.60	1.11.030050.44LP.60
1.11.030030.22LP.61 (10)	1.11.030030.23LP.61 (10)	1.11.030030.33LP.61 (10)	1.11.030030.43LP.61 (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

machining data ☛ *Profile machining 1.1A*

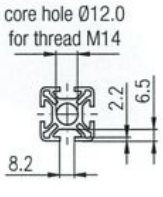
light

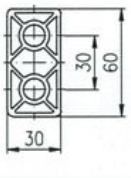


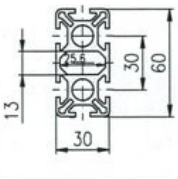


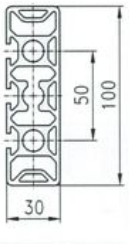
Description		Profile 30×60, 6F, LP		
bar, 6 m		1.11.030060.64LP.60		
packing unit (number)		1.11.030060.64LP.61 (6)		
moment of inertia cm⁴ moment of resistance cm³ weight kg/m		I_x = 21.1 I_y = 5.9 W_x = 7.4 W_y = 3.9 G = 1.6		

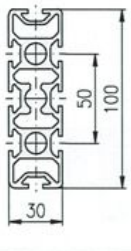
heavy





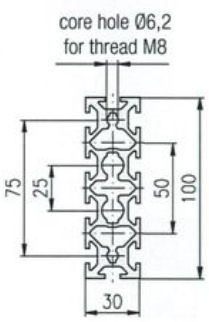


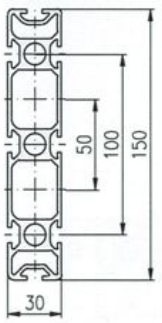


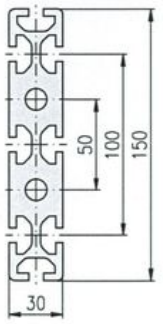


Description	Profile 30×60 0F, SP	Profile 30×60 6F, SP	Profile 30×100, 3F, SP	Profile 30×100, 8F, SP
bar, 6 m	1.11.030060.04SP.60	1.11.030060.65SP.60	1.11.030100.34SP.60	1.11.030100.84SP.60
packing unit (number)	1.11.030060.04SP.61 (6)	1.11.030060.65SP.61 (6)	1.11.030100.34SP.61 (4)	1.11.030100.84SP.61 (4)
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	I_x = 29.0 I_y = 7.8 W_x = 9.6 W_y = 5.2 G = 2.2	I_x = 25.0 I_y = 7.0 W_x = 8.3 W_y = 4.7 G = 2.1	I_x = 120.4 I_y = 12.8 W_x = 24.0 W_y = 8.5 G = 3.6	I_x = 115.0 I_y = 11.6 W_x = 22.9 W_y = 7.7 G = 3.4

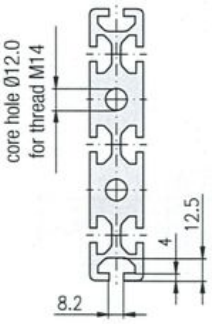
machining data ☛ *Profile machining 1.1A*







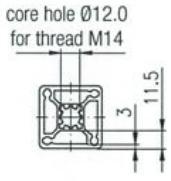
Connection possibilities
☛ *2.26, Universal connector*
☛ *2.30, ST-Connector*

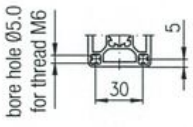


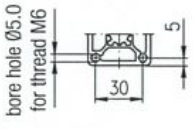
Profile 30×100, 10F, SP		Profile 30×150, 8F, SBP	Profile 30×150, 8E, SP
1.11.030100.104SP.60		1.11.030150.84SBP.60	1.11.030150.84SP.60
1.11.030100.104SP.61 (4)		1.11.030150.84SBP.61 (2)	1.11.030150.84SP.61 (2)
I_x = 127.0 I_y = 11.9 W_x = 25.4 W_y = 7.9 G = 3.6		I_x = 340.0 I_y = 16.0 W_x = 45.0 W_y = 11.0 G = 4.1	I_x = 481.0 I_y = 25.1 W_x = 64.1 W_y = 16.7 G = 7.9

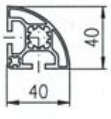
machining data ☛ *Profile machining 1.1A*

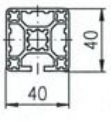
light

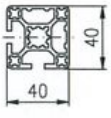






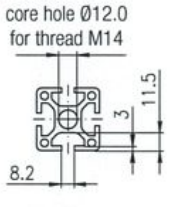


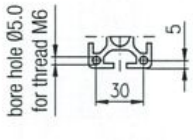


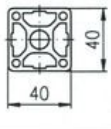


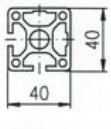
Description	Profile 40×40, 2E, soft, LP		Profile 40×40, 1E, LP	Profile 40×40, 2E, corner, LP
bar, 6 m	1.11.040040.21LP.60		1.11.040040.13LP.60	1.11.040040.22LP.60
packing unit (number)	1.11.040040.21LP.61 (8)		1.11.040040.13LP.61 (8)	1.11.040040.22LP.61 (8)
moment of inertia cm⁴	I_x = 6.4 I_y = 6.4		I_x = 10.1 I_y = 9.8	I_x = 9.9 I_y = 9.9
moment of resistance cm³	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 cm⁴		I_x = 12.6 I_y = 12.6		I_x = 12.0 I_y = 12.0
moment of resistance cm³		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

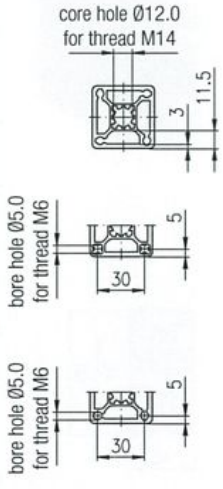
machining data ☛ *Profile machining 1.1A*

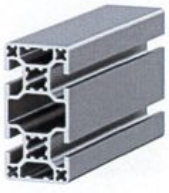
Profile 40×40, 2E, LP	Profile 40×40, 3E, LP	Profile 40×40, 4E, LP	Profile 40×80, 0E, LP	Profile 40×80, 3E, corner, LP
1.11.040040.23LP.60	1.11.040040.33LP.60	1.11.040040.43LP.60	1.11.040080.04LP.60	1.11.040080.32LP.60
1.11.040040.23LP.61 (8)	1.11.040040.33LP.61 (8)	1.11.040040.43LP.61 (8)	1.11.040080.04LP.61 (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

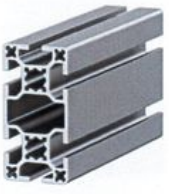
	Profile 40×40, 3E, SP	Profile 40×40, 4E, SP		
	1.11.040040.33SP.60	1.11.040040.43SP.60		
	1.11.040040.33SP.61 (8)	1.11.040040.43SP.61 (8)		
	I_x = 12.0 I_y = 11.4 W_x = 6.0 W_y = 5.6 G = 2.0	I_x = 12.0 I_y = 12.0 W_x = 6.0 W_y = 6.0 G = 2.0		

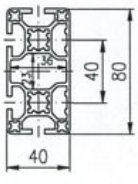
machining data ☛ *Profile machining 1.1A*

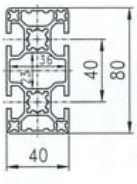
light

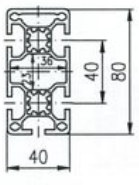


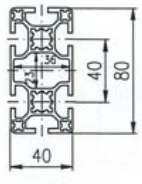






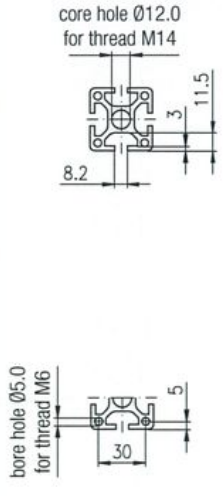


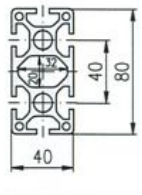




Description	Profile 40×80, 4E, LP	Profile 40×80, 4E, LBP	Profile 40×80, 5E, LP	Profile 40×80, 6E, LP
bar, 6 m	1.11.040080.44LP.60	1.11.040080.44LBP.60	1.11.040080.54LP.60	1.11.040080.64LP.60
packing unit (number)	1.11.040080.44LP.61 (4)	1.11.040080.44LBP.61 (4)	1.11.040080.54LP.61 (4)	1.11.040080.64LP.61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

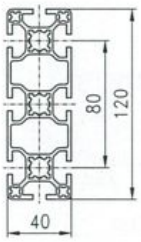
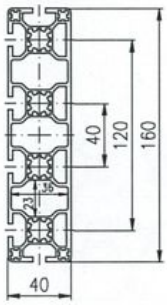
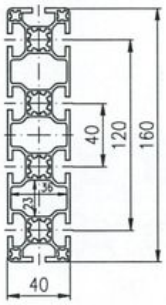
heavy





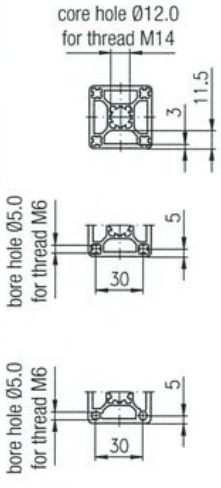
Description				Profile 40×80, 6E, SP
bar, 6 m				1.11.040080.64SP.60
packing unit (number)				1.11.040080.64SP.61 (4)
moment of inertia cm^4				I_x = 82.0 I_y = 23.4
moment of resistance cm^3				W_x = 20.5 W_y = 11.7
weight kg/m				G = 3.8

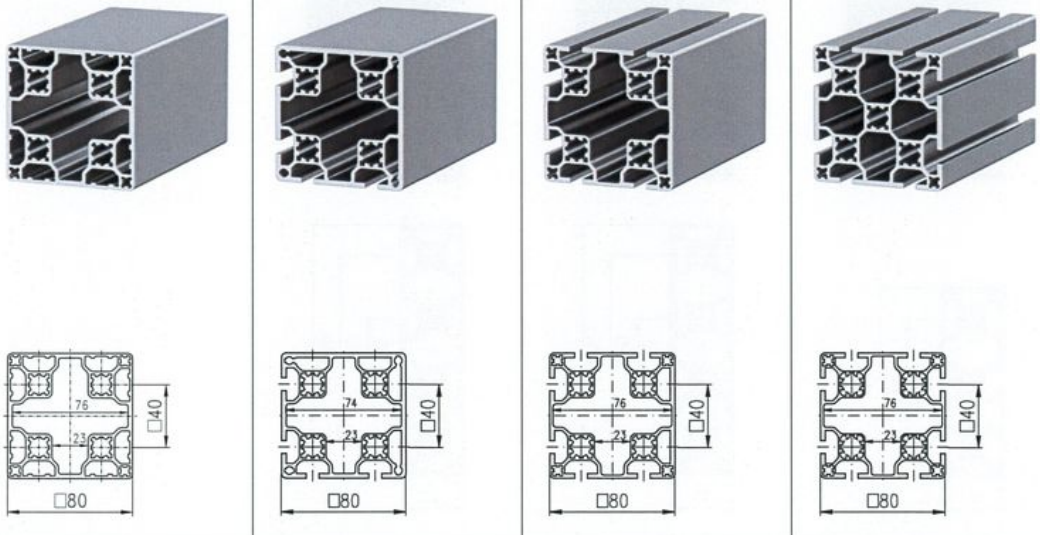
machining data ☛ *Profile machining 1.1A*

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

machining data ☛ *Profile machining 1.1A*

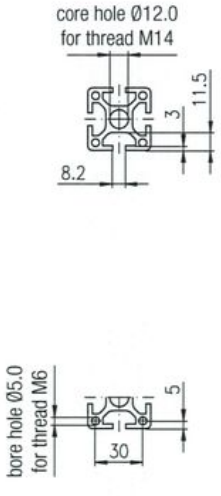
light

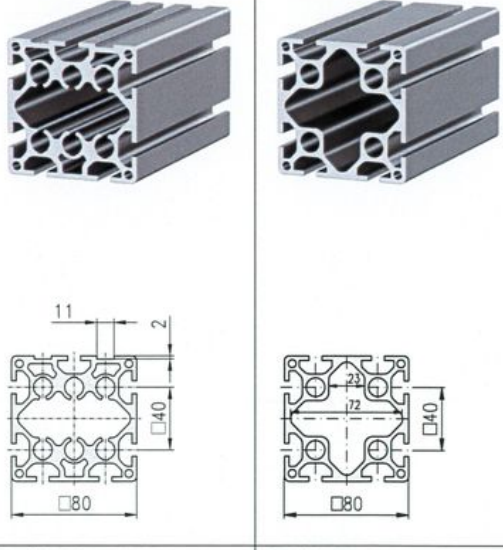




Description	Profile 80×80, 0E, LP	Profile 80×80, 4E, corner, LP	Profile 80×80, 6E, LP	Profile 80×80, 8E, LP
bar, 6 m	1.11.080080.03LP.60	1.11.080080.42LP.60	1.11.080080.63LP.60	1.11.080080.83LP.60
packing unit (number)	1.11.080080.03LP.61 (2)	1.11.080080.42LP.61 (2)	1.11.080080.63LP.61 (2)	1.11.080080.83LP.61 (2)
moment of inertia cm^4 moment of resistance cm^3 weight kg/m	I_x = 123.3 I_y = 123.3 W_x = 30.9 W_y = 30.9 G = 4.5	I_x = 128.0 I_y = 128.0 W_x = 32.0 W_y = 32.0 G = 4.5	I_x = 121.3 I_y = 116.0 W_x = 30.3 W_y = 29.0 G = 4.2	I_x = 114.0 I_y = 114.0 W_x = 28.4 W_y = 28.4 G = 4.1

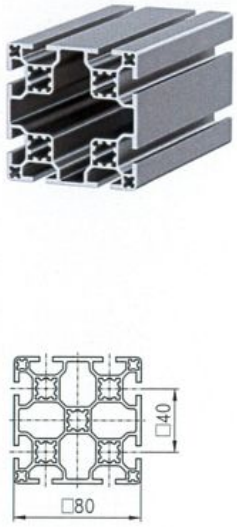
heavy



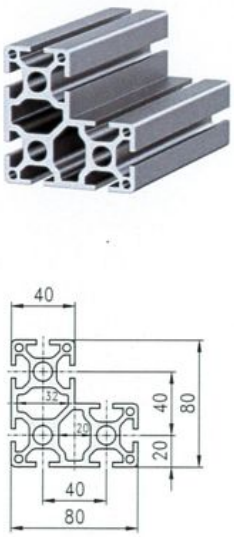


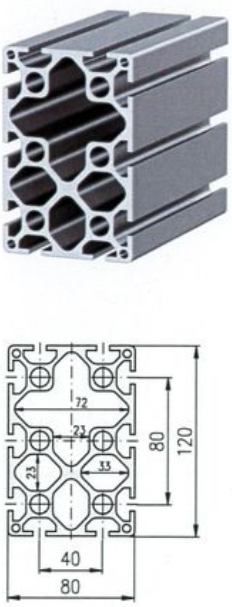
Description			Profile 80×80, 7E, SP	Profile 80×80, 8E, SP
bar, 6 m			1.11.080080.79SP.60	1.11.080080.83SP.60
packing unit (number)			1.11.080080.79SP.61 (2)	1.11.080080.83SP.61 (2)
moment of inertia cm^4 moment of resistance cm^3 weight kg/m			I_x = 162.8 I_y = 149.7 W_x = 40.7 W_y = 37.5 G = 6.2	I_x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

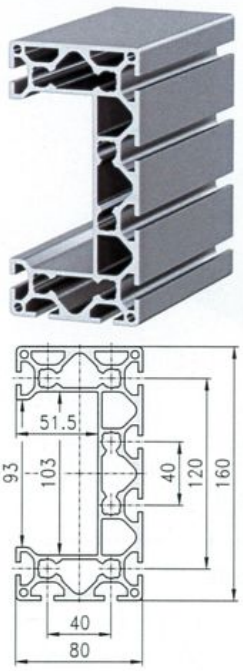
machining data ☛ *Profile machining 1.1A*

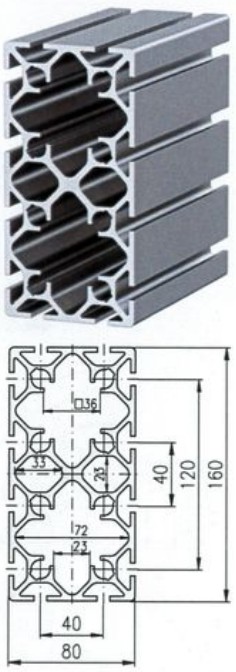


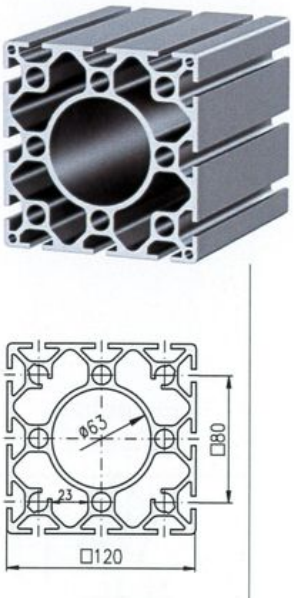
Profile 80×80, 8E, LBP		Profile 80×160, 8E, LP	Profile 80×160, 12E, LP	
1.11.080080.83LBP.60		1.11.080160.84LP.60	1.11.080160.124LP.60	
1.11.080080.83LBP.61 (2)		1.11.080160.84LP.61 (2)	1.11.080160.124LP.61 (2)	
I_x = 118.7 I_y = 118.7 W_x = 29.9 W_y = 29.9 G = 4.9		I_x = 828.0 I_y = 259.0 W_x = 104.0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









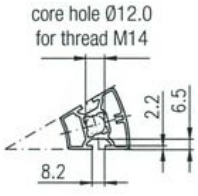


Profile 80×80, 8E, angle, SP	Profile 80×120, 10E, SP	Profile 80×160, 8E, SP	Profile 80×160, 12E, SP	Profile 120×120, 12E, SP
1.11.080080.87SP.60	1.11.080120.104SP.60	1.11.080160.89SP.60	1.11.080160.124SP.60	1.11.120120.123SP.60
1.11.080080.87SP.60 (2)	1.11.080120.104SP.61 (2)	1.11.080160.89SP.61 (2)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

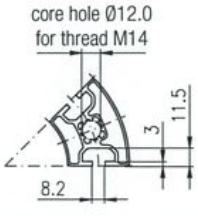
machining data ☛ *Profile machining 1.1A*

light

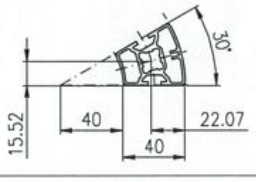
F-Slot

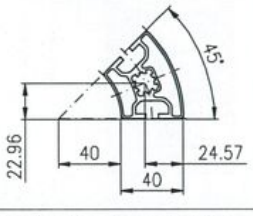


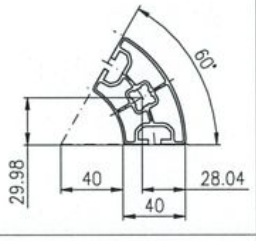
E3-Slot



F-Slot



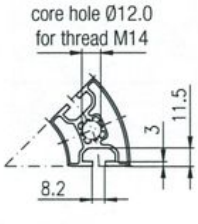


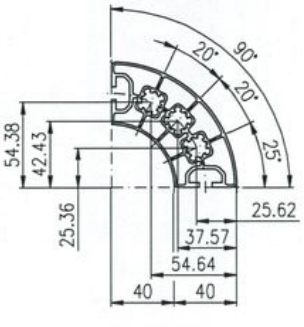


Connection possibilities and calculation formulas for polygons ☛ *1.2E*

Description	Profile 40, round 30 deg., 2F, LP	Profile 40, round 45 deg., 2E, LP	Profile 40, round 60 deg., 2E, LP
bar, 6 m	1.11.040R30.20LP.60	1.11.040R45.20LP.60	1.11.040R60.20LP.60
packing unit (number)	1.11.040R30.20LP.61 (8)	1.11.040R45.20LP.61 (8)	1.11.040R60.20LP.61 (8)
moment of inertia cm⁴	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 cm³	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



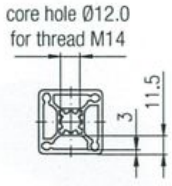


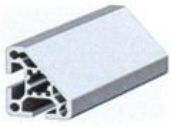
Connection possibilities and calculation formulas for polygons ☛ *1.2E*

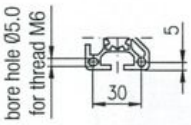
Description	Profile 40, round 90 deg., 2E, LP
bar, 6 m	1.11.040R90.20LP.60
packing unit (number)	1.11.040R90.20LP.61 (4)
moment of inertia cm⁴	I_x = 89.0 I_y = 89.0
moment of resistance cm³	W_x = 16.0 W_y = 16.0
weight kg/m	G = 3.0

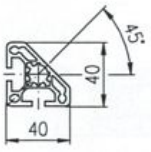
machining data ☛ *Profile machining 1.1A*

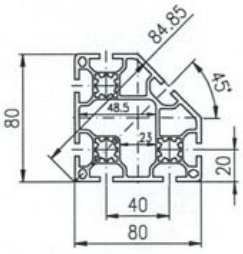
light









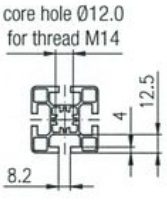


Description	Profile 40×40, 2E, 45 deg., LP	Profile 80×80, 7E, 45 deg., LP		
bar, 6 m	1.11.040040.28LP.60	1.11.080080.78LP.60		
packing unit (number)	1.11.040040.28LP.61 (8)	1.11.080080.78LP.61 (2)		
moment of inertia cm^4	I_x = 7.3 I_y = 7.3	I_x = 99.3 I_y = 99.3		
moment of resistance cm^3	W_x = 3.9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

light

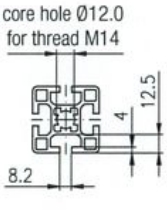
machining data ☛ *Profile machining 1.1A*

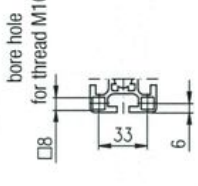
light



Description	Profile 45×45, 2E, soft, LP	Profile 45×45, 0E, LP	Profile 45×45, 1E, LP	Profile 45×45, 2E, corner, LP
bar, 6 m	1.11.045045.21LP.60	1.11.045045.03LP.60	1.11.045045.13LP.60	1.11.045045.22LP.60
packing unit (number)	1.11.045045.21LP.61 (8)	1.11.045045.03LP.61 (8)	1.11.045045.13LP.61 (8)	1.11.045045.22LP.61 (8)
moment of inertia cm⁴	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 cm³	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

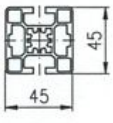
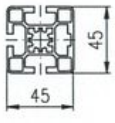
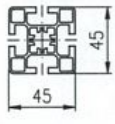
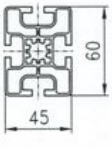
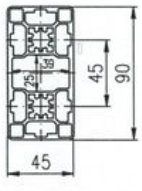
heavy

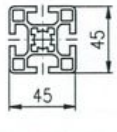




Description				
bar, 6 m				
packing unit (number)				
moment of inertia cm⁴				
moment of resistance cm³				
weight kg/m				

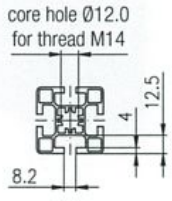
machining data ☛ *Profile machining 1.1A*

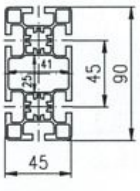
				
Profile 45×45, 2E, LP	Profile 45×45, 3E, LP	Profile 45×45, 4E, LP	Profile 45×60, 4E, LP	Profile 45×90, 0E, LP
1.11.045045.23LP.60	1.11.045045.33LP.60	1.11.045045.43LP.60	1.11.045060.44LP.60	1.11.045090.04LP.60
1.11.045045.23LP.61 (8)	1.11.045045.33LP.61 (8)	1.11.045045.43LP.61 (8)	1.11.045060.44LP.61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

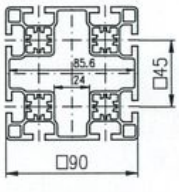
				
		Profile 45×45, 4E, SP		
		1.11.045045.43SP.60		
		1.11.045045.43SP.61 (8)		
		I_x = 15.5 I_y = 15.5 W_x = 6.9 W_y = 6.9 G = 2.1		

machining data ☛ *Profile machining 1.1A*

light

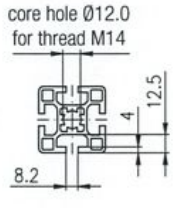


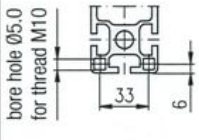


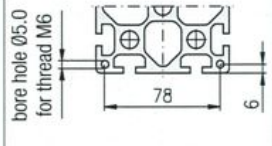


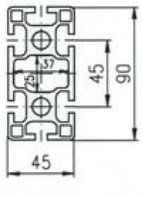
Description	Profile 45×90, 6E, LP	Profile 90×90, 8E, LP		
bar, 6 m	1.11.045090.64LP.60	1.11.090090.83LP.60		
packing unit (number)	1.11.045090.64LP.61 (4)	1.11.090090.83LP.61 (2)		
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	I_x = 98.0 I_y = 27.5 W_x = 21.8 W_y = 12.2 G = 3.3	I_x = 190.5 I_y = 190.5 W_x = 42.3 W_y = 42.3 G = 5.6		

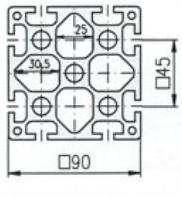
heavy











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 cm⁴ moment of resistance cm³ weight kg/m	I_x = 126.0 I_y = 34.0 W_x = 28.0 W_y = 15.0 G = 4.4	I_x = 282.0 I_y = 282.0 W_x = 63.0 W_y = 63.0 G = 9.5		

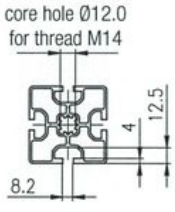
machining data ☛ *Profile machining 1.1A*

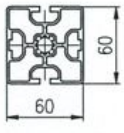
light				

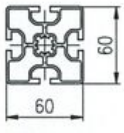
heavy				
core hole Ø12.0 for thread M14 bore hole for thread M12				
Description	Profile 50×50, 4E, SP	Profile 50×100, 6E, SP	Profile 100×100, 8E, SP	Profile 100×200, 12E, SP
bar, 6 m	1.11.050050.43SP.60	1.11.050100.64SP.60	1.11.100100.83SP.60	1.11.100200.124SP.60
packing unit (number)	1.11.050050.43SP.61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

machining data ☛ *Profile machining 1.1A*

light

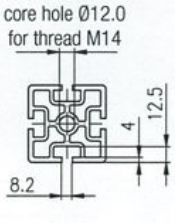


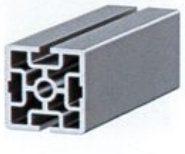


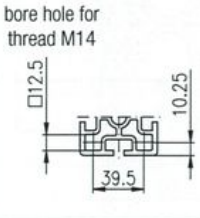


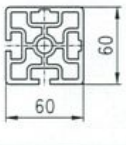
Description		Profile 60×60, 2E, LP	Profile 60×60, 4E, LP	
bar, 6 m		1.11.060060.23LP.60	1.11.060060.43LP.60	
packing unit (number)		1.11.060060.23LP.61 (6)	1.11.060060.43LP.61 (6)	
moment of inertia cm⁴ moment of resistance cm³ weight kg/m		I_x = 35.1 I_y = 37.7 W_x = 11.7 W_y = 12.5 G = 2.9	I_x = 35.5 I_y = 35.5 W_x = 11.7 W_y = 11.7 G = 2.7	

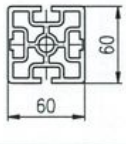
heavy

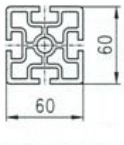








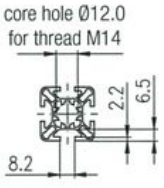


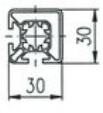


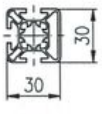
Description		Profile 60×60, 2E, corner, SP	Profile 60×60, 2E, SP	Profile 60×60, 4E, SP
bar, 6 m		1.11.060060.22SP.60	1.11.060060.23SP.60	1.11.060060.43SP.60
packing unit (number)		1.11.060060.22SP.61 (6)	1.11.060060.23SP.61 (6)	1.11.060060.43SP.61 (6)
moment of inertia cm⁴ moment of resistance cm³ weight kg/m		I_x = 57.2 I_y = 57.2 W_x = 19.1 W_y = 19.1 G = 4.3	I_x = 55.9 I_y = 58.5 W_x = 18.6 W_y = 19.5 G = 4.3	I_x = 56.0 I_y = 56.0 W_x = 18.7 W_y = 18.7 G = 4.2

machining data ☛ *Profile machining 1.1A*

light

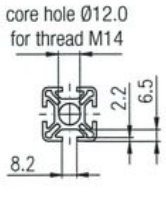


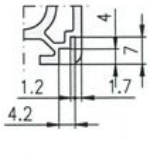


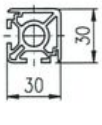


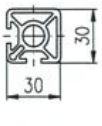
Description		Profile 30×30, 2F, corner, L		Profile 30×30, 3F, L
bar, 6 m		1.11.030030.22L.60		1.11.030030.33L.60
packing unit (number)		1.11.030030.22L.61 (10)		1.11.030030.33L.61 (10)
moment of inertia cm⁴ moment of resistance cm³ weight kg/m		I_x = 3.2 I_y = 3.2 W_x = 2.1 W_y = 2.1 G = 0.9		I_x = 3.3 I_y = 3.2 W_x = 2.2 W_y = 2.2 G = 0.9

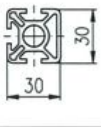
heavy











Description		Profile 30×30, 2F, corner, S	Profile 30×30, 2F, corner, SB	Profile 30×30, 3F, S
bar, 6 m		1.11.030030.22S.60	1.11.030030.22SB.60	1.11.030030.33S.60
packing unit (number)		1.11.030030.22S.61 (10)	1.11.030030.22SB.61 (10)	1.11.030030.33S.61 (10)
moment of inertia cm⁴ moment of resistance cm³ weight kg/m		I_x = 3.7 I_y = 3.2 W_x = 2.4 W_y = 2.4 G = 1.1	I_x = 3.7 I_y = 3.7 W_x = 2.4 W_y = 2.4 G = 1.1	I_x = 3.5 I_y = 3.7 W_x = 2.4 W_y = 2.4 G = 1.1

machining data ☛ *Profile machining 1.1A*

Profile 30×30, 4F, L

1.11.030030.43L.60

1.11.030030.43L.61 (10)

I_x = 3.3 I_y = 3.3
W_x = 2.2 W_y = 2.2
G = 0.9

Profile 30×50, 4F, L

1.11.030050.44L.60

1.11.030050.44L.61 (6)

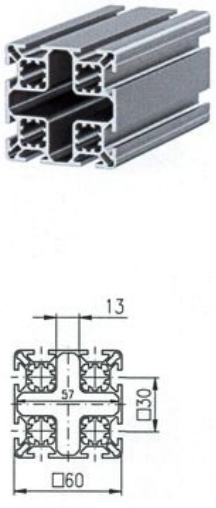
I_x = 10.5 I_y = 4.5
W_x = 4.5 W_y = 3.5
G = 1.3

Profile 30×60, 6F, L

1.11.030060.64L.60

1.11.030060.64L.61 (6)

I_x = 21.9 I_y = 5.8
W_x = 7.4 W_y = 3.8
G = 1.6



Profile 60×60, 8F, L

1.11.060060.83L.60

1.11.060060.83L.61 (4)

I_x = 38.7 I_y = 38.7
W_x = 12.9 W_y = 12.9
G = 2.6

Profile 30×30, 4F, S

1.11.030030.43S.60

1.11.030030.43S.61 (10)

I_x = 3.5 I_y = 3.5
W_x = 2.4 W_y = 2.4
G = 1.1

Profile 30×50, 4F, S

1.11.030050.44S.60

1.11.030050.44S.61 (6)

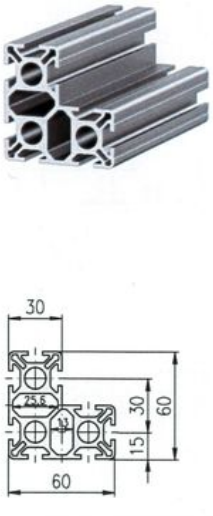
I_x = 16.1 I_y = 6.3
W_x = 6.4 W_y = 4.2
G = 1.9

Profile 30×60, 6F, S

1.11.030060.65S.60

1.11.030060.65S.61 (6)

I_x = 25.0 I_y = 7.0
W_x = 8.3 W_y = 4.7
G = 2.1



Profile 60×60, 8F, angle, S

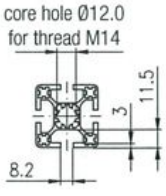
1.11.060060.87S.60

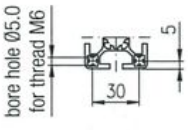
1.11.060060.87S.61 (4)

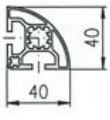
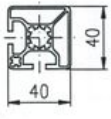
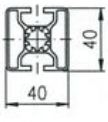
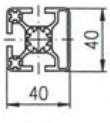
I_x = 35.2 I_y = 35.2
W_x = 9.9 W_y = 9.9
G = 2.8

machining data ☛ *Profile machining 1.1A*

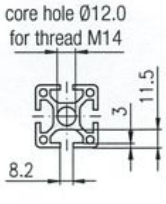
light

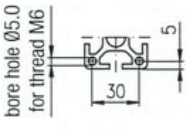


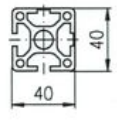
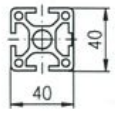


				
Description	Profile 40×40, 2E, soft, L	Profile 40×40, 2E, corner, L	Profile 40×40, 2E, L	Profile 40×40, 3E, L
bar, 6 m	1.11.040040.21L.60	1.11.040040.22L.60	1.11.040040.23L.60	1.11.040040.33L.60
packing unit (number)	1.11.040040.21L.61 (8)	1.11.040040.22L.61 (8)	1.11.040040.23L.61 (8)	1.11.040040.33L.61 (8)
moment of inertia cm⁴	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 cm³	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

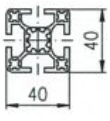
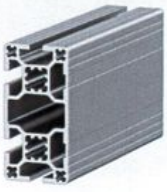
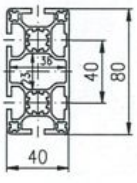
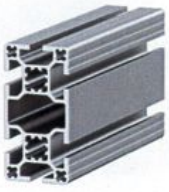
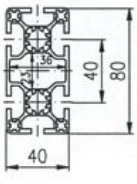
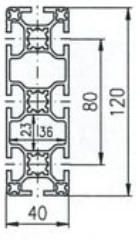
heavy

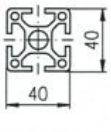
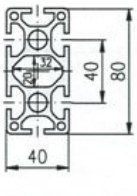




				
Description		Profile 40×40, 2E, corner, S		Profile 40×40, 3E, S
bar, 6 m		1.11.040040.22S.60		1.11.040040.33S.60
packing unit (number)		1.11.040040.22S.61 (8)		1.11.040040.33S.61 (8)
moment of inertia cm⁴		I_x = 12.3 I_y = 12.3		I_x = 12.0 I_y = 11.3
moment of resistance cm³		W_x = 6.1 W_y = 6.1		W_x = 6.0 W_y = 5.6
weight kg/m		G = 2.0		G = 1.9

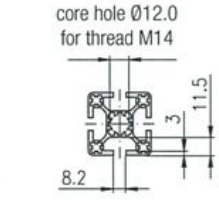
machining data ☛ *Profile machining 1.1A*

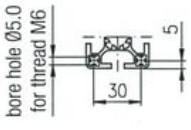
	 	 		
Profile 40×40, 4E, L	Profile 40×80, 4E, L	Profile 40×80, 6E, L	Profile 40×120, 8E, L	
1.11.040040.43L.60	1.11.040080.44L.60	1.11.040080.64L.60	1.11.040120.84L.60	
1.11.040040.43L.61 (8)	1.11.040080.44L.61 (4)	1.11.040080.64L.61 (4)	1.11.040120.84L.61 (2)	
I_x = 9.9 I_y = 9.9 W_x = 4.9 W_y = 4.9 G = 1.5	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	

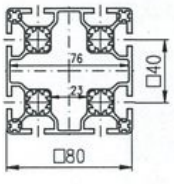
				
Profile 40×40, 4E, S		Profile 40×80, 6E, S		
1.11.040040.43S.60		1.11.040080.64S.60		
1.11.040040.43S.61 (8)		1.11.040080.64S.61 (4)		
I_x = 12.0 I_y = 12.0 W_x = 6.0 W_y = 6.0 G = 2.0		I_x = 82.0 I_y = 23.4 W_x = 20.5 W_y = 11.7 G = 3.8		

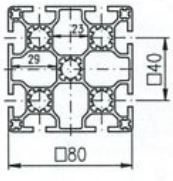
machining data ☛ *Profile machining 1.1A*

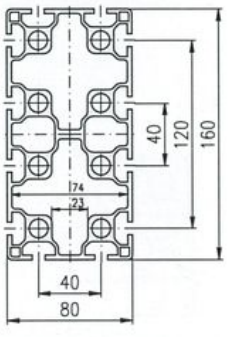
light





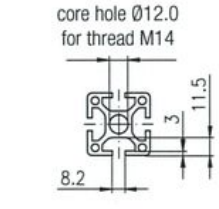


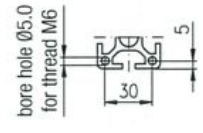


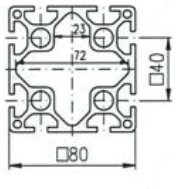


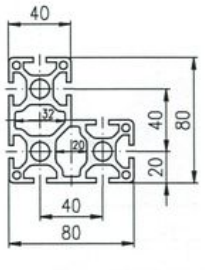
Description	Profile 80×80, 8E, L	Profile 80×80, 8E, LB	Profile 80×160, 12E, L	
bar, 6 m	1.11.080080.83L.60	1.11.080080.83LB.60	1.11.080160.124L.60	
packing unit (number)	1.11.080080.83L.61 (2)	1.11.080080.83LB.61 (2)	1.11.080160.124L.61 (2)	
moment of inertia cm⁴	I_x = 111.0 I_y = 111.0	I_x = 110.2 I_y = 110.2	I_x = 794.0 I_y = 233.0	
moment of resistance cm³	W_x = 28.0 W_y = 28.0	W_x = 27.6 W_y = 27.6	W_x = 99.3 W_y = 58.3	
weight kg/m	G = 4.1	G = 4.5	G = 8.8	

heavy





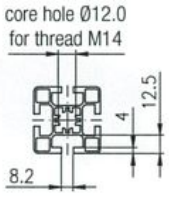


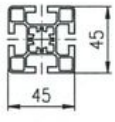


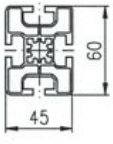
Description	Profile 80×80, 8E, S	Profile 80×80, 8E, angle, S		
bar, 6 m	1.11.080080.83S.60	1.11.080080.87S.60		
packing unit (number)	1.11.080080.83S.61 (2)	1.11.080080.87S.61 (2)		
moment of inertia cm⁴	I_x = 166.0 I_y = 166.0	I_x = 120.0 I_y = 120.0		
moment of resistance cm³	W_x = 41.4 W_y = 41.4	W_x = 23.8 W_y = 23.8		
weight kg/m	G = 5.9	G = 5.4		

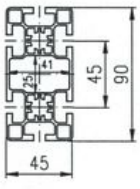
machining data ☛ *Profile machining 1.1A*

light



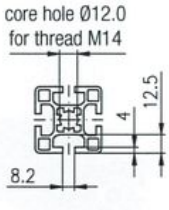


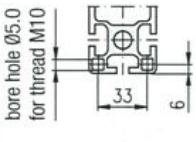


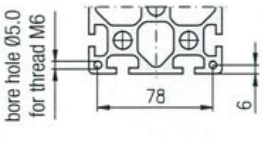


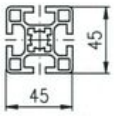
Description	Profile 45×45, 4E, L	Profile 45×60, 4E, L	Profile 45×90, 6E, L	
bar, 6 m	1.11.045045.43L.60	1.11.045060.44L.60	1.11.045090.64L.60	
packing unit (number)	1.11.045045.43L.61 (8)	1.11.045060.44L.61 (6)	1.11.045090.64L.61 (4)	
moment of inertia cm⁴	I_x = 13.5 I_y = 13.5	I_x = 26.5 I_y = 16.0	I_x = 98.0 I_y = 27.5	
moment of resistance cm³	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	

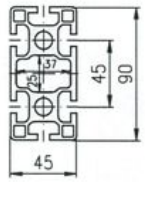
heavy







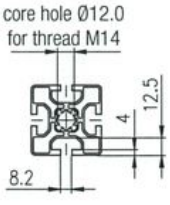


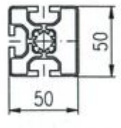


Description	Profile 45×45, 4E, S		Profile 45×90, 6E, S	
bar, 6 m	1.11.045045.43S.60		1.11.045090.64S.60	
packing unit (number)	1.11.045045.43S.61 (8)		1.11.045090.64S.61 (4)	
moment of inertia cm⁴	I_x = 16.8 I_y = 16.8		I_x = 126.0 I_y = 34.0	
moment of resistance cm³	W_x = 7.4 W_y = 7.4		W_x = 28.0 W_y = 15.0	
weight kg/m	G = 2.3		G = 4.4	

machining data ☛ *Profile machining 1.1A*

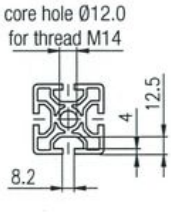
light

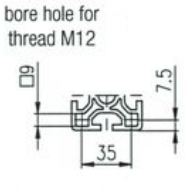


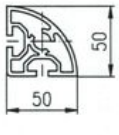


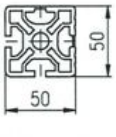
Description				Profile 50×50, 3E, L
bar, 6 m				1.11.050050.33L.60
packing unit (number)				1.11.050050.33L.61 (6)
moment of inertia cm⁴ moment of resistance cm³ weight kg/m				I_x = 18.4 I_y = 16.0 W_x = 7.3 W_y = 5.8 G = 1.9

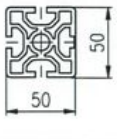
heavy





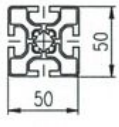






Description	Profile 50×50, 2E, soft, S	Profile 50×50, 2E, corner, S		Profile 50×50, 3E, S
bar, 6 m	1.11.050050.21S.60	1.11.050050.22S.60		1.11.050050.33S.60
packing unit (number)	1.11.050050.21S.61 (6)	1.11.050050.22S.61 (6)		1.11.050050.33S.61 (6)
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	I_x = 18.8 I_y = 18.8 W_x = 7.5 W_y = 7.5 G = 2.3	I_x = 27.4 I_y = 27.4 W_x = 10.9 W_y = 10.9 G = 3.0		I_x = 27.3 I_y = 28.2 W_x = 11.1 W_y = 11.1 G = 3.1

machining data ☛ *Profile machining 1.1A*

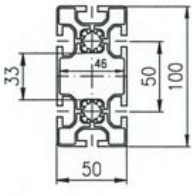


Profile 50×50,
4E, L

1.11.050050.43L.60

1.11.050050.43L.61 (6)

I_x = 19.2 I_y = 19.2
W_x = 7.7 W_y = 7.7
G = 2.2

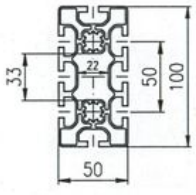


Profile 50×100,
6E, L

1.11.050100.64L.60

1.11.050100.64L.61 (3)

I_x = 138.0 I_y = 37.0
W_x = 27.5 W_y = 14.5
G = 3.5



Profile 50×100,
8E, L

1.11.050100.84L.60

1.11.050100.84L.61 (3)

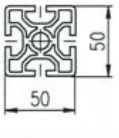
I_x = 137.0 I_y = 40.0
W_x = 27.5 W_y = 16.0
G = 4.0

Profile 100×100,
8E, L

1.11.100100.83L.60

1.11.100100.83L.61 (2)

I_x = 254.1 I_y = 254.1
W_x = 45.4 W_y = 45.4
G = 6.2

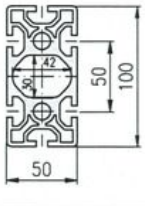


Profile 50×50,
4E, S

1.11.050050.43S.60

1.11.050050.43S.61 (6)

I_x = 27.3 I_y = 27.3
W_x = 11.0 W_y = 11.0
G = 3.1

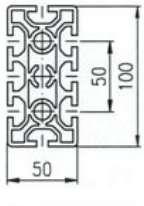


Profile 50×100,
6E, S

1.11.050100.64S.60

1.11.050100.64S.61 (3)

I_x = 202.0 I_y = 57.2
W_x = 40.4 W_y = 22.8
G = 5.9

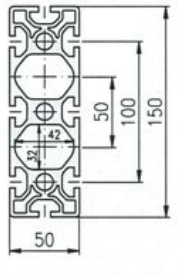


Profile 50×100,
8E, S

1.11.050100.84S.60

1.11.050100.84S.61 (3)

I_x = 200.0 I_y = 53.3
W_x = 39.9 W_y = 21.3
G = 6.0

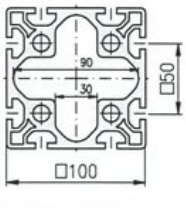


Profile 50×150,
8E, S

1.11.050150.84S.60

1.11.050150.84S.61 (2)

I_x = 628.0 I_y = 83.0
W_x = 83.0 W_y = 33.0
G = 8.1



Profile 100×100,
8E, S

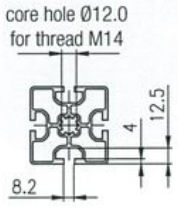
1.11.100100.83S.60

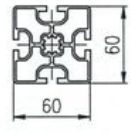
1.11.100100.83S.61 (2)

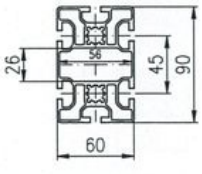
I_x = 411.0 I_y = 411.0
W_x = 82.0 W_y = 82.0
G = 9.7

machining data ☛ *Profile machining 1.1A*

light

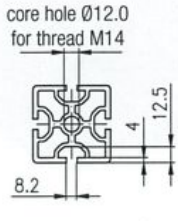


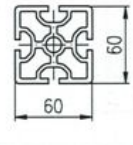


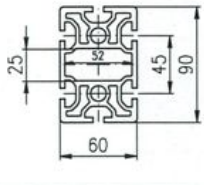


Description	Profile 60×60, 4E, L	Profile 60×90, 6E, L		
bar, 6 m	1.11.060060.43L.60	1.11.060090.64L.60		
packing unit (number)	1.11.060060.43L.61 (6)	1.11.060090.64L.61 (3)		
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	I_x = 35.5 I_y = 35.5 W_x = 11.7 W_y = 11.7 G = 2.7	I_x = 125.8 I_y = 54.3 W_x = 27.9 W_y = 18.1 G = 3.9		

heavy



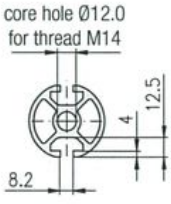


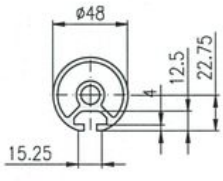


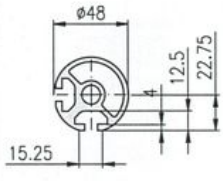
Description	Profile 60×60, 4E, S	Profile 60×90, 6E, S		
bar, 6 m	1.11.060060.43S.60	1.11.060090.64S.60		
packing unit (number)	1.11.060060.43S.61 (6)	1.11.060090.64S.61 (3)		
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	I_x = 56.0 I_y = 56.0 W_x = 18.7 W_y = 18.7 G = 4.2	I_x = 193.0 I_y = 83.0 W_x = 43.0 W_y = 27.5 G = 6.0		

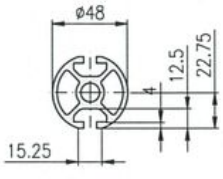
machining data ☛ *Profile machining 1.1A*

heavy





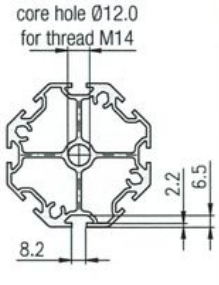


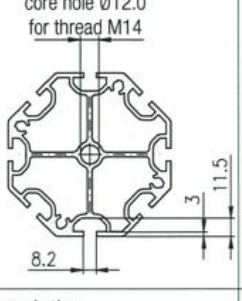


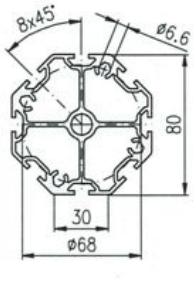
Description	Profile 48, round, 1E, SP	Profile 48, round, 2E, corner, SP	Profile 48, round, 2E, SP	
bar, 6 m	1.11.048R00.10SP.60	1.11.048R00.22SP.60	1.11.048R00.20SP.60	
packing unit (number)	1.11.048R00.10SP.61 (6)	1.11.048R00.22SP.61 (6)	1.11.048R00.20SP.61 (6)	
moment of inertia cm⁴	I_x = 12.5 I_y = 12.9	I_x = 12.0 I_y = 12.0	I_x = 12.5 I_y = 13.5	
moment of resistance cm³	W_x = 4.9 W_y = 5.4	W_x = 5.0 W_y = 5.0	W_x = 5.1 W_y = 5.9	
weight kg/m	G = 1.8	G = 2.0	G = 2.0	

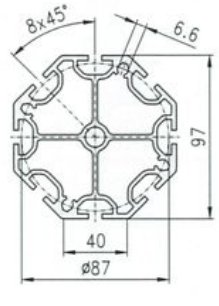
Profiles octagonal, F / E3-slot, P (plain)

heavy





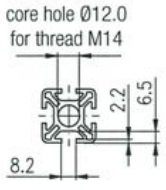


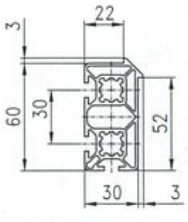


Description	Profile 30, octagonal, 8F, SP	Profile 40, octagonal, 8E, SP		
bar, 6 m	1.11.0308kt.89SP.60	1.11.0408kt.89SP.60		
packing unit (number)	1.11.0308kt.89SP.61 (2)	1.11.0408kt.89SP.61 (2)		
moment of inertia cm⁴	I_x = 84.0 I_y = 84.0	I_x = 176.6 I_y = 176.6		
moment of resistance cm³	W_x = 21.0 W_y = 21.0	W_x = 35.3 W_y = 35.3		
weight kg/m	G = 3.9	G = 5.8		

machining data ☛ *Profile machining 1.1A*

light

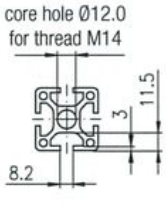


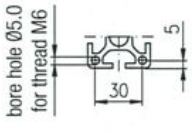


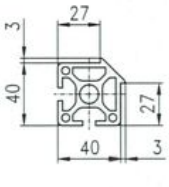
Description		Panel bazel profile 30×60, 3F, 45°, LP		
bar, 6 m		1.13.030060.39LP.60		
packing unit (number)		1.13.030060.39LP.61 (4)		
moment of inertia cm⁴ moment of resistance cm³ weight kg/m		I_x = 22.8 I_y = 6.1 W_x = 7.6 W_y = 4.0 G = 1.7		

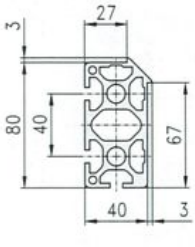
Panel bazel profile 40, E3-slot, P (plain)

heavy





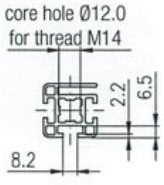




Description	Panel bazel profile 40×40, 2E, 45°, SP	Panel bazel profile 40×80, 3E, 45°, SP		
bar, 6 m	1.13.040040.29SP.60	1.13.040080.39SP.60		
packing unit (number)	1.13.040040.29SP.61 (8)	1.13.040080.39SP.61 (4)		
moment of inertia cm⁴ moment of resistance cm³ weight kg/m	I_x = 12.1 I_y = 12.1 W_x = 6.1 W_y = 6.1 G = 2.1	I_x = 101.9 I_y = 23.5 W_x = 25.5 W_y = 11.8 G = 3.8		

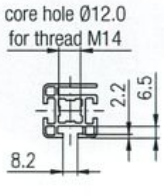
machining data ☛ *Profile machining 1.1A*

light



Description	Panel profile 30×30, 0F, LP	Panel profile 30×30, 2F, corner, LP 4	Panel profile 30×30, 3F, LP 4	Panel profile 30×50, 3F, LP 4
bar, 6 m	1.14.030030.03LP0.60	1.14.030030.22LP4.60	1.14.030030.33LP4.60	1.14.030050.34LP4.60
packing unit (number)	1.14.030030.03LP0.61(10)	1.14.030030.22LP4.61(10)	1.14.030030.33LP4.61(10)	1.14.030050.34LP4.61 (6)
moment of inertia cm⁴	I_x = 3.8 I_y = 3.8	I_x = 3.3 I_y = 3.3	I_x = 3.3 I_y = 2.8	I_x = 5.5 I_y = 11.8
moment of resistance cm³	W_x = 2.4 W_y = 2.4	W_x = 2.2 W_y = 2.2	W_x = 2.2 W_y = 1.8	W_x = 3.6 W_y = 4.8
weight kg/m	G = 1.1	G = 1.0	G = 0.9	G = 1.5

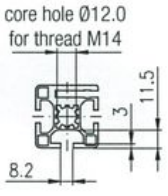
light

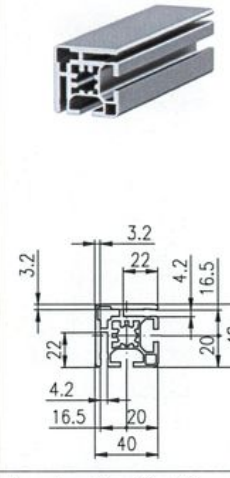
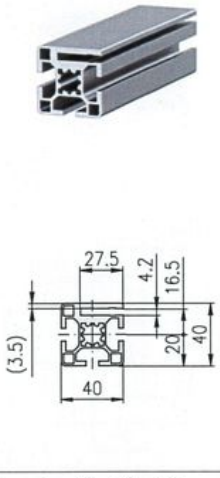
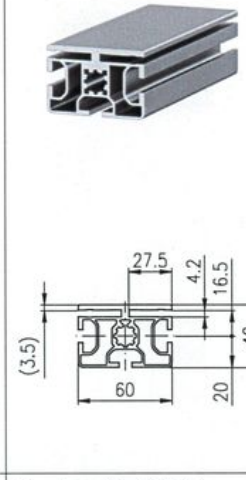
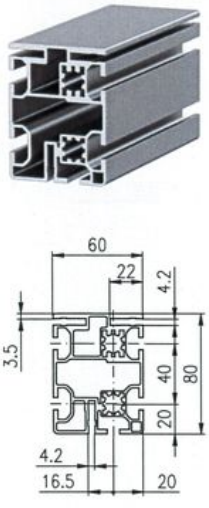


Description	Panel profile 30×30, 2F, LP 5	Panel profile 30×50, 2F, LP 5		Panel profile 30×30, 2F, LP 6
bar, 6 m	1.14.030030.23LP5.60	1.14.030050.24LP5.60		1.14.030030.23LP6.60
packing unit (number)	1.14.030030.23LP5.61(10)	1.14.030050.24LP5.61(10)		1.14.030030.23LP6.61 (6)
moment of inertia cm⁴	I_x = 4.3 I_y = 3.3	I_x = 7.0 I_y = 14.7		I_x = 3.6 I_y = 2.8
moment of resistance cm³	W_x = 2.8 W_y = 2.2	W_x = 4.7 W_y = 5.9		W_x = 2.4 W_y = 1.9
weight kg/m	G = 1.2	G = 1.9		G = 1.0

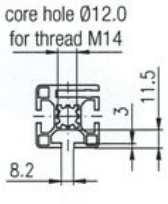
machining data ☛ *Profile machining 1.1A*

light

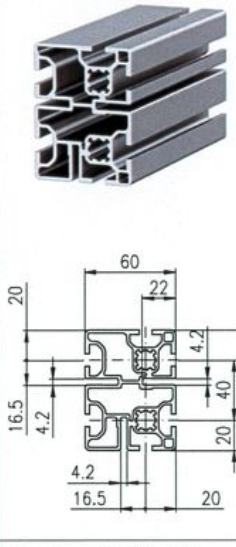
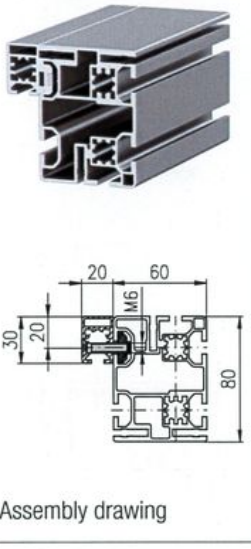
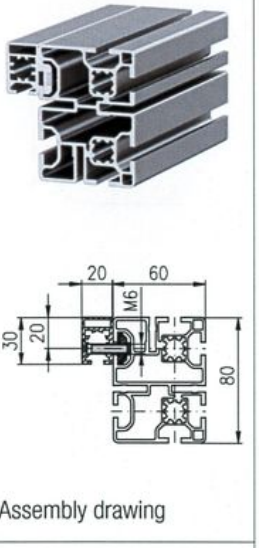


				
Description	Panel profile 40×40, 2E, corner, LP 4	Panel profile 40×40, 3E, LP 4	Panel profile 40×60, 3E, LP 4	Panel profile 60×80, 5E, LP 4
bar, 6 m	1.14.040040.22LP4.60	1.14.040040.33LP4.60	1.14.040060.34LP4.60	1.14.060080.54LP4.60
packing unit (number)	1.14.040040.22LP4.61 (8)	1.14.040040.33LP4.61 (8)	1.14.040060.34LP4.61 (8)	1.14.060080.54LP4.61 (4)
moment of inertia cm⁴	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 cm³	W_x = 5.2 W_y = 5.2	W_x = 5.1 W_y = 4.3	W_x = 7.4 W_y = 8.8	W_x = 25.1 W_y = 16.8
weight kg/m	G = 1.8	G = 1.65	G = 2.4	G = 3.8

light

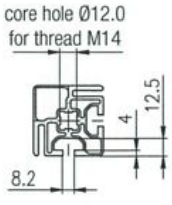


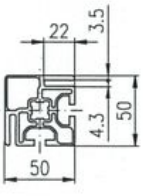
Profile for door stop

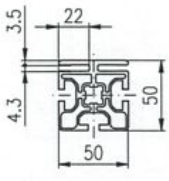
					
Description	Panel profile 60×80, 6E, LP 4	Profile 20×30, 1F, LP	Assembly drawing	Assembly drawing	
bar, 6 m	1.14.060080.64LP4.60	1.11.020030.14LP.60			
packing unit (number)	1.14.060080.64LP4.61 (4)	1.11.020030.14LP.61 (10)			
moment of inertia cm⁴	I_x = 88.1 I_y = 52.0	I_x = 2.2 I_y = 1.4	I_x = 113.0 I_y = 64.0	I_x = 89.2 I_y = 53.3	
moment of resistance cm³	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	

machining data ☛ *Profile machining 1.1A*

light



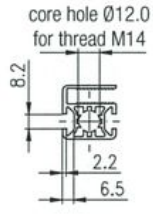
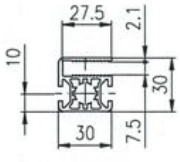
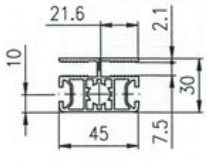




Description	Panel profile 50×50, 2E, corner, LP 4	Panel profile 50×50, 3E, LP 4		
bar, 6 m	1.14.050050.22LP4.60	1.14.050050.39LP4.60		
packing unit (number)	1.14.050050.22LP4.61 (6)	1.14.050050.39LP4.61 (6)		
moment of inertia cm^4 moment of resistance cm^3 weight kg/m	I_x = 19.4 I_y = 19.4 W_x = 7.6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

light

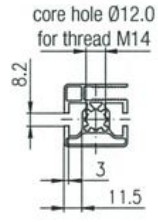
machining data ☛ *Profile machining 1.1A*

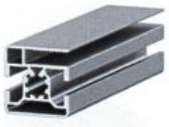
light				
				
Description	Wire net profile 30×30, 2F, LP 7.5	Wire net profile 30×45, 2F, LP 7.5		
bar, 6 m	1.15.030030.23LP7.60	1.15.030045.24LP7.60		
packing unit (number)	1.15.030030.23LP7.61(10)	1.15.030045.24LP7.61 (8)		
moment of inertia cm^4 moment of resistance cm^3 weight kg/m	I_x = 2.6 I_y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

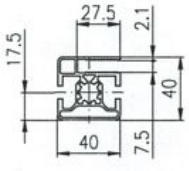
light				

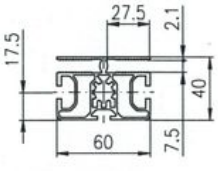
machining data ☛ *Profile machining 1.1A*

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 cm⁴ moment of resistance cm³ weight kg/m	I_x = 7.5 I_y = 8.2 W_x = 3.8 W_y = 4.1 G = 1.35	I_x = 12.2 I_y = 22.5 W_x = 6.1 W_y = 7.5 G = 1.97		

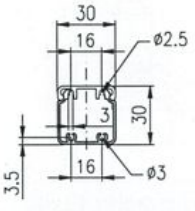
light

machining data ☛ *Profile machining 1.1A*

Cover profile 30

Description	E-trunking profile, lid 30
bar, 6 m	1.19.2030D.60
packing unit (number)	1.19.2030D.61 (8)
cut to length	1.19.2030D-A00A00/...
weight kg/m	G = 0.24

Base profiles 30



Technical data
material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised

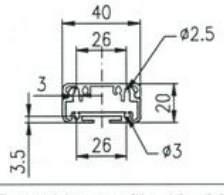
Description	E-trunking profile 30×30
bar, 6 m	1.19.203030G.60
packing unit (number)	1.19.203030G.61 (8)
cut to length	1.19.203030G-A00A00/...
weight kg/m	G = 0.38

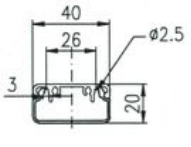
End plates ☛ *7.16*

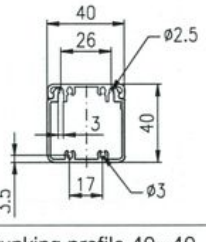
Cover profile 40

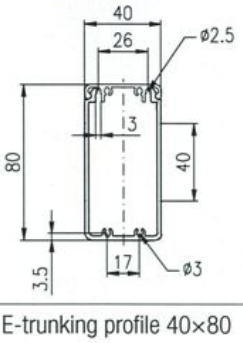
Description	E-trunking profile, lid 40
bar, 6 m	1.19.2040D.60
packing unit (number)	1.19.2040D.61 (8)
cut to length	1.19.2040D-A00A00/...
weight kg/m	G = 0.35

Base profiles 40









Technical data
material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised

Description	E-trunking profile 40×20, for clips	E-trunking profile 40×20	E-trunking profile 40×40	E-trunking profile 40×80
bar, 6 m	1.19.214020G.60	1.19.204020G.60	1.19.204040G.60	1.19.204080G.60
packing unit (number)	1.19.214020G.61 (16)	1.19.204020G.61 (16)	1.19.204040G.61 (8)	1.19.204080G.61 (4)
cut to length	1.19.214020G-A00A00/...	1.19.204020G-A00A00/...	1.19.204040G-A00A00/...	1.19.204080G-F00F00/...
weight kg/m	G = 0.50	G = 0.30	G = 0.61	G = 1.24

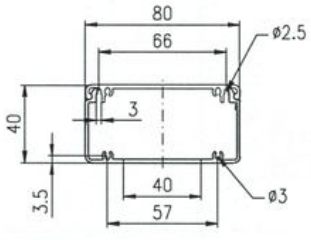
End plates ☛ *7.16*

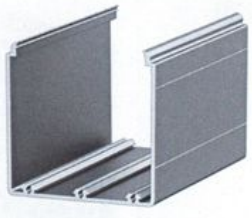
(/... = Length in mm)

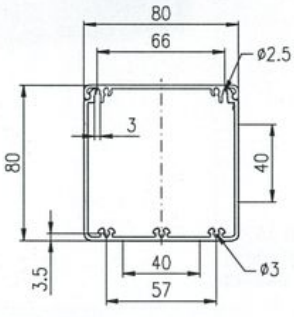
Cover profile 80

Description	E-trunking profile, lid 80
bar, 6 m	1.19.2080D.60
packing unit (number)	1.19.2080D.61 (4)
cut to length	1.19.2080D-F00F00/...
weight kg/m	G = 0.59

Base profiles 80







Technical data

material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised

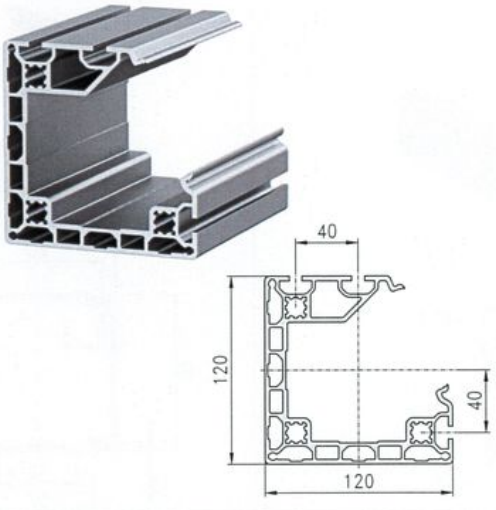
Description	E-trunking profile 80×40	E-trunking profile 80×80
bar, 6 m	1.19.208040G.60	1.19.208080G.60
packing unit (number)	1.19.208040G.61 (4)	1.19.208080G.61 (2)
cut to length	1.19.208040G-F00F00/...	1.19.208080G-F00F00/...
weight kg/m	G = 1.20	G = 1.55

End plates ☛ *7.16*

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

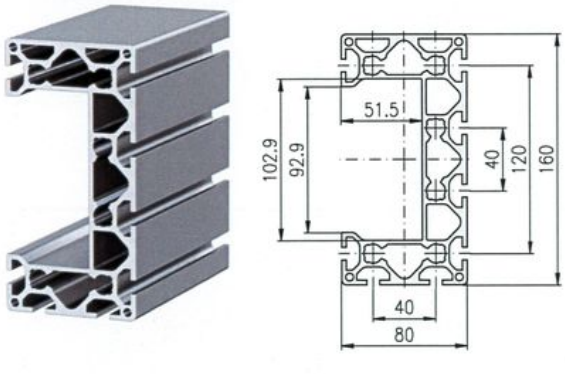


Technical data
material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised

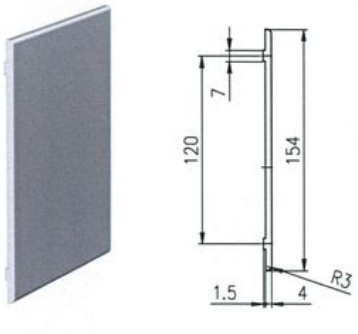
Description	E-trunking profile 120×120, 3E, LP
bar, 6 m	1.11.120120.39LP.60
packing unit (number)	
moment of inertia cm⁴	I_x = 538.3 I_y = 275.2
moment of resistance cm³	W_x = 89.8 W_y = 45.8
weight kg/m	G = 6.7

E-trunking profile 160

Base profile:
Profile 80×160, 8E, SP ☛ *1.21, 7.14 - 7.17*



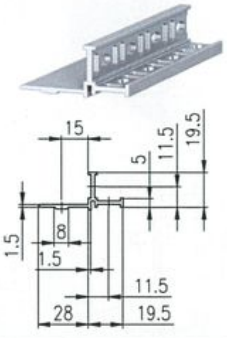
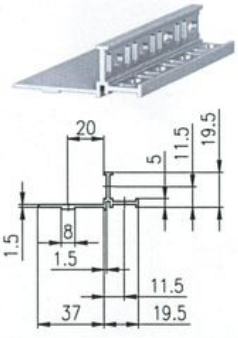
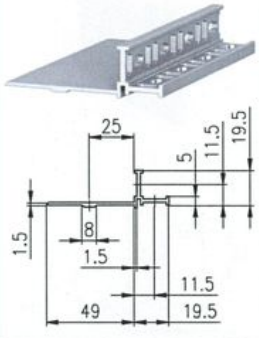
Cover profile:
Profile pre-cut lid 120 ☛ *1.50, 7.14 - 7.17*



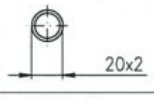
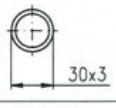
Technical data
material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised

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 cm⁴	I_x = 944.0 I_y = 183.0	
moment of resistance cm³	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/mm² 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	

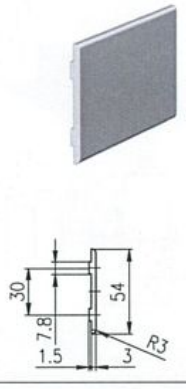
Tubes 1.19

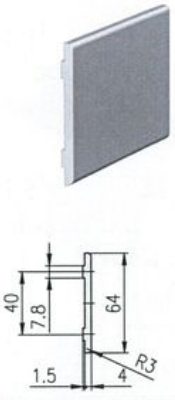
Tubes **Technical data** material: Al Mg Si 0.5 F22 extruded profiles as per DIN 755-9 tensile strength: 250 N/mm² surface: natural anodised				
Description	Tube Ø20×2	Tube Ø30×3	Tube Ø40×4	
bar, 6 m	1.19.16120.60	1.19.16130.60	1.19.16140.60	
cut to length	1.19.16120-A00A00/...	1.19.16130-A00A00/...	1.19.16140-A00A00/...	
weight kg/m	G = 0.3	G = 0.7	G = 1.3	

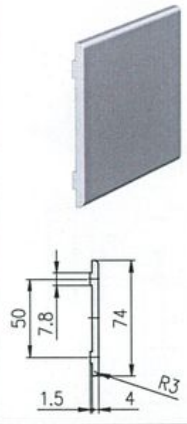
machining data ☛ *Profile machining 1.1A*

Profile pre-cut lids

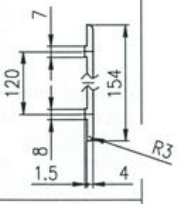
Technical data
material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised







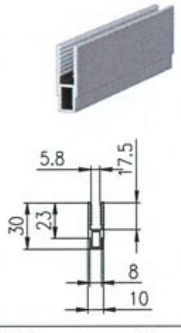
Application
E-trunking profiles, 1.46, 7.14 - 7.17

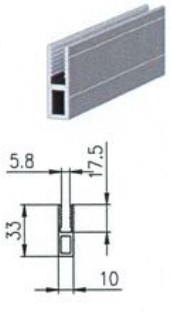


Description	Profile pre-cut lid 30	Profile pre-cut lid 40	Profile pre-cut lid 50	Profile pre-cut lid 120
bar, 6 m	1.19.110130.60	1.19.110140.60	1.19.110150.60	1.19.1101120.60
cut to length	1.19.110130-A00A00/...	1.19.110140-A00A00/...	1.19.110150-F00F00/...	1.19.1101120-L00L00/...
weight kg/m	G = 0.49	G = 0.74	G = 0.85	G = 1.80

Wire net mounting profiles

Technical data
material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised

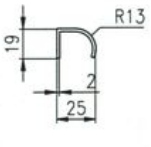




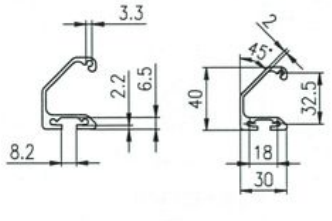
Description	Wire net mounting profile	Wire net mounting profile 33×10		
bar, 6 m	1.19.14230.60	1.19.1423310.60		
cut to length	1.19.14230-A00A00/...	1.19.1423310-A00A00/...		
weight kg/m	G = 0.3	G = 0.4		

Grab handle profiles

Technical data
material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised

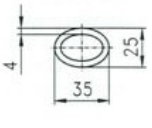


F-slot



Oval tube

bar, 3 m

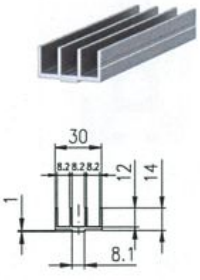


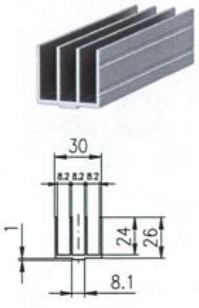
Description	Grab handle profile	Grab handle profile	Oval tube 35×4
bar, 6 m	1.19.14319.60	1.19.14330.60	1.19.14535.30
cut to length	1.19.14319-A00A00/...	1.19.14330-A00A00/...	1.19.14535-A00A00/...
weight kg/m	G = 0.3	G = 0.73	G = 0.83

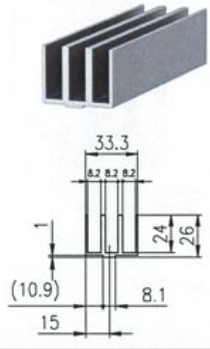
(/... = Length in mm)

Sliding profiles

Technical data
material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised



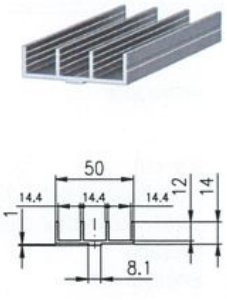




Description	Sliding profile 30×14	Sliding profile 30×26	Sliding profile 33×26	
bar, 6 m	1.19.15130.60	1.19.15131.60	1.19.15134.60	
cut to length	1.19.15130-A00A00/...	1.19.15131-A00A00/...	1.19.15134-A00A00/...	
weight kg/m	G = 0.4	G = 0.6	G = 0.8	

Sliding profile

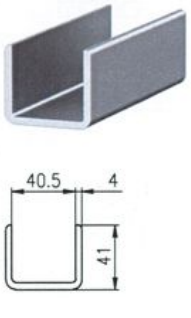
Technical data
material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised



Description	Sliding profile 50×14			
bar, 6 m	1.19.15150.60			
cut to length	1.19.15150-A00A00/...			
weight kg/m	G = 0.6			

U-profile

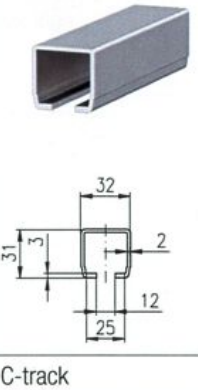
Technical data
material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised



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

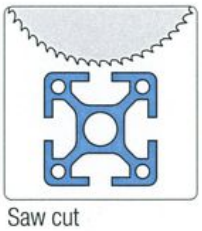
Technical data
material: Al Mg Si 0.5 F25
tensile strength: 250 N/mm²
surface: natural anodised



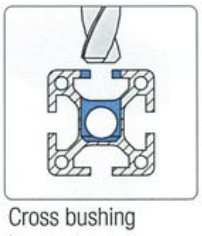
Description	C-track
bar, 6 m	1.19.14532.60
cut to length	1.19.14532-A00A00/...
weight kg/m	G = 0.6

(/... = Length in mm)

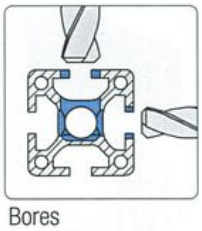
Summary


Saw cut

☛ 1.53


Cross bushing bores for connectors

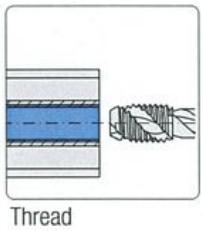
☛ 1.54


Bores for parallel-connector

☛ 1.54

Cross bore

☛ 1.54


Thread

☛ 1.54

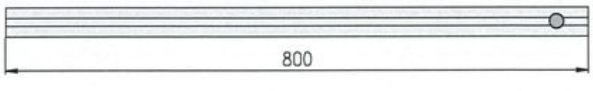
Comments

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

Order description

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

Order example

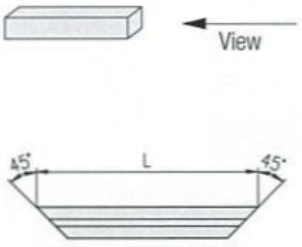


Description	Article-No.	Article-Description
Profile 40×40, 4E-slots, S Length: 800 mm right side: 1 connector bore	1.11.040040.43S-A00AA4/800	Profile 40×40, 4E-slots, S □□□□ .... Specifications for special profile machining

coding examples ☛ 1.1B

Saw cut

Saw cut tolerance: ±0.1 mm



Disposition of angles

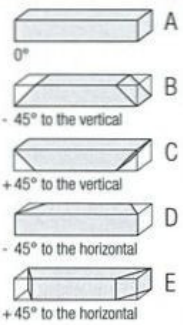
Cut is right view

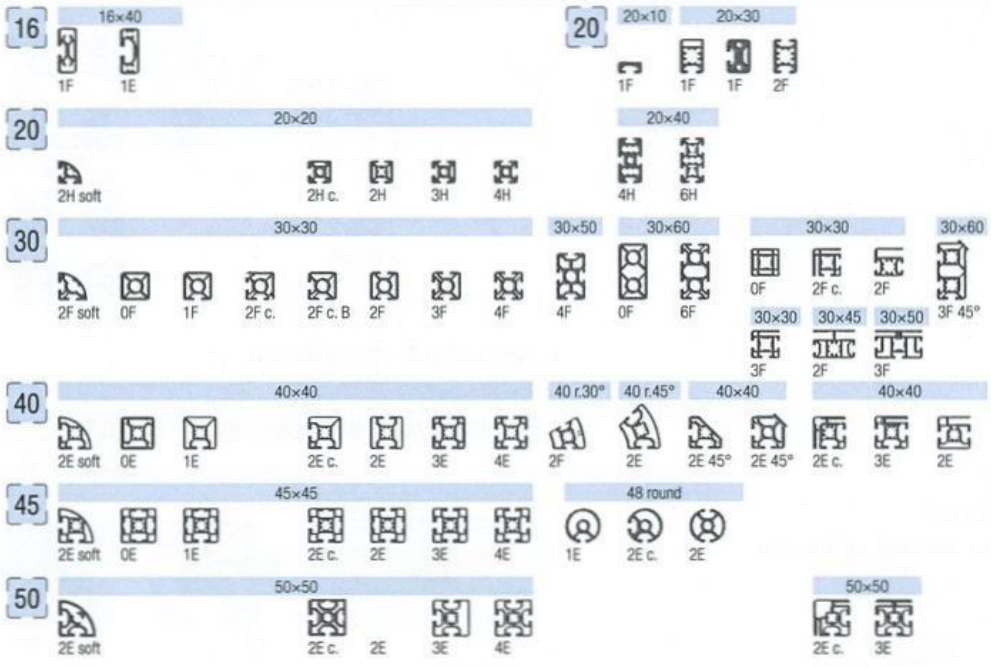
- For angle cuts specify the absolute length
- Angle cuts without specification = 45°

Specification for special angle:

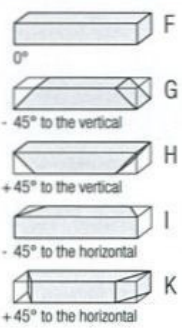
Special angle, left:	□□.□°
Special angle, right:	□□.□°

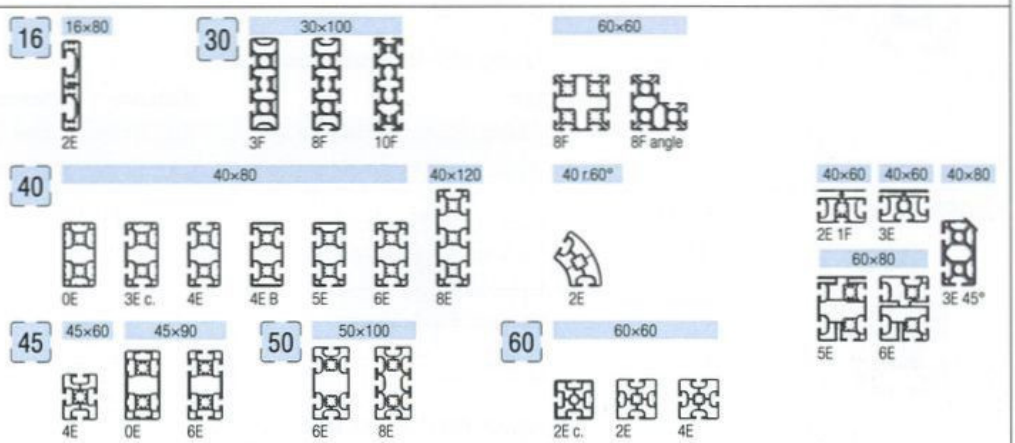
Price group 1



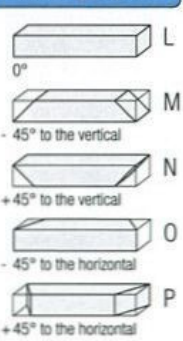


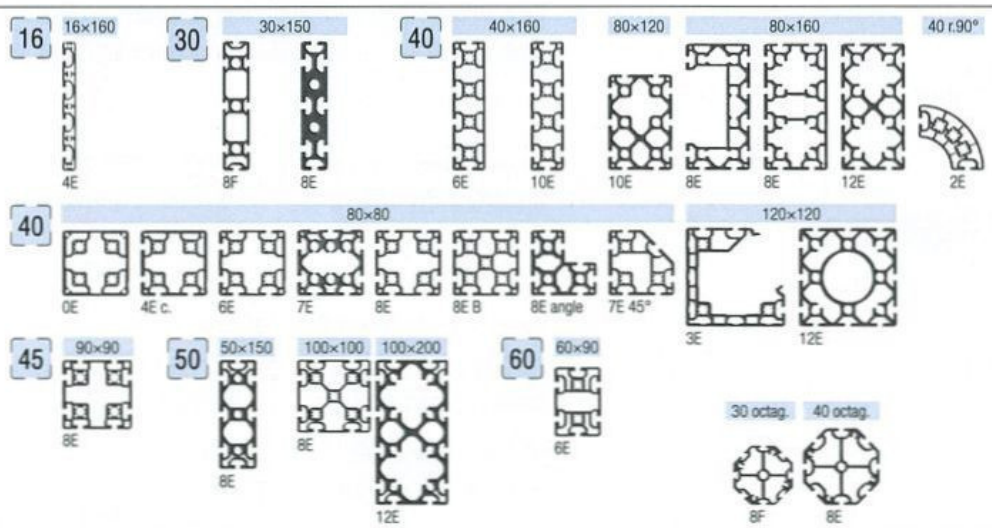
Price group 2



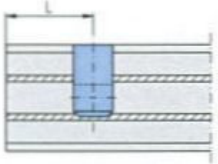


Price group 3

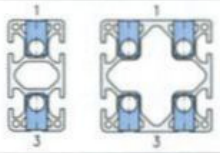
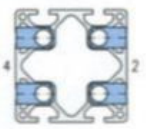




Cross bushing bore
for connector



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

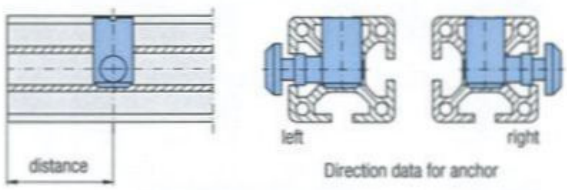
Disposition rule for connectors at opposed profile sides		
Specified Direction	Position of bore	Example
1	Side 1 and Side 3	
2	Side 2 and Side 4	

Specification for special position:

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

initials (☛ *1.55, „Direction and Position"*)

Bores
for parallel-connector



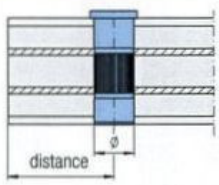
Direction data for anchor

Parallel-connector = **Z**
without machining = 0

Specification for parallel-connector:

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

Cross bore

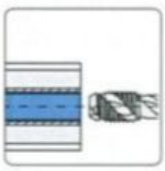


Cross bore = **Q**
without machining = 0

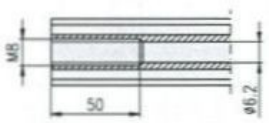
Specification for cross bore:

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

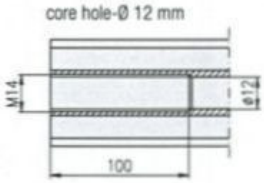
Thread



core hole-Ø 6 mm



core hole-Ø 12 mm



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

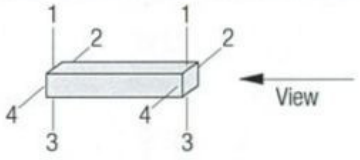
Specification for special thread designs:

Depth of thread, left:	□□□... mm
Depth of thread, right:	□□□... mm
Position of thread, left:	□□□...
Position of thread, right:	□□□...

small letters (☛ *1.55, „Direction and Position"*)

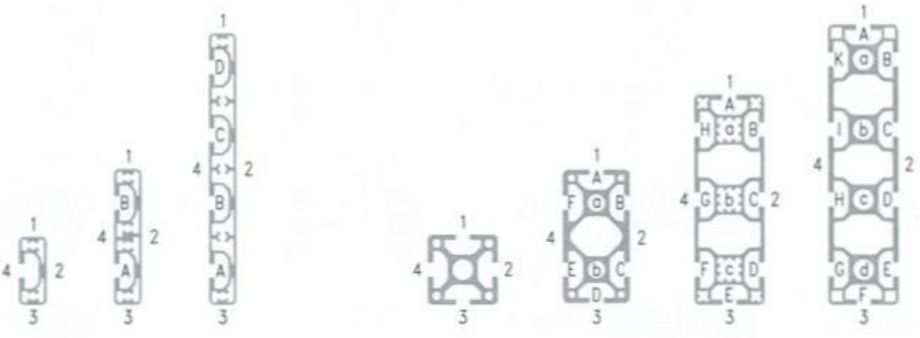
Further machining possibilities as per sketch.

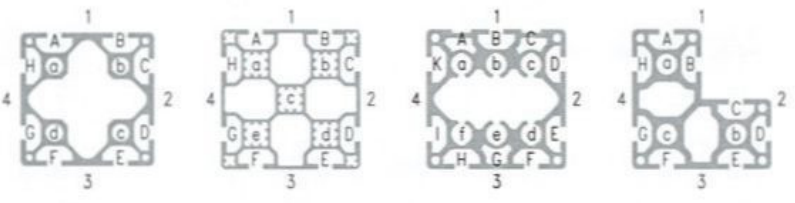
Direction and Position

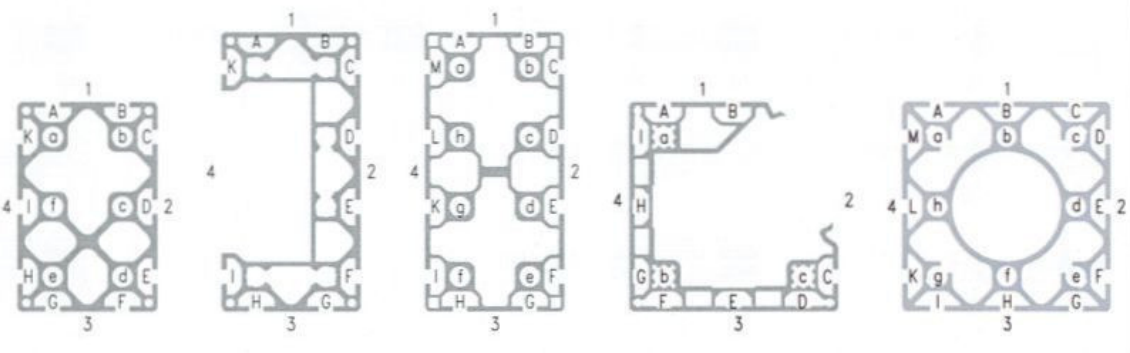


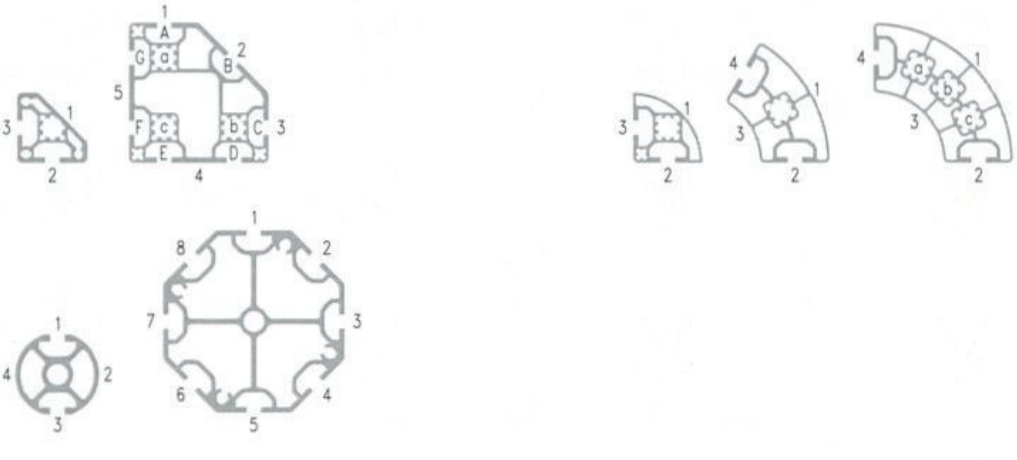
Description

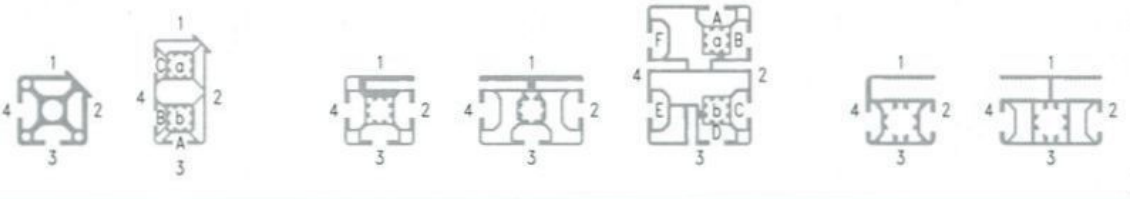
Direction:	1 - 4
Position of slot:	A - M
Position of thread:	a - h



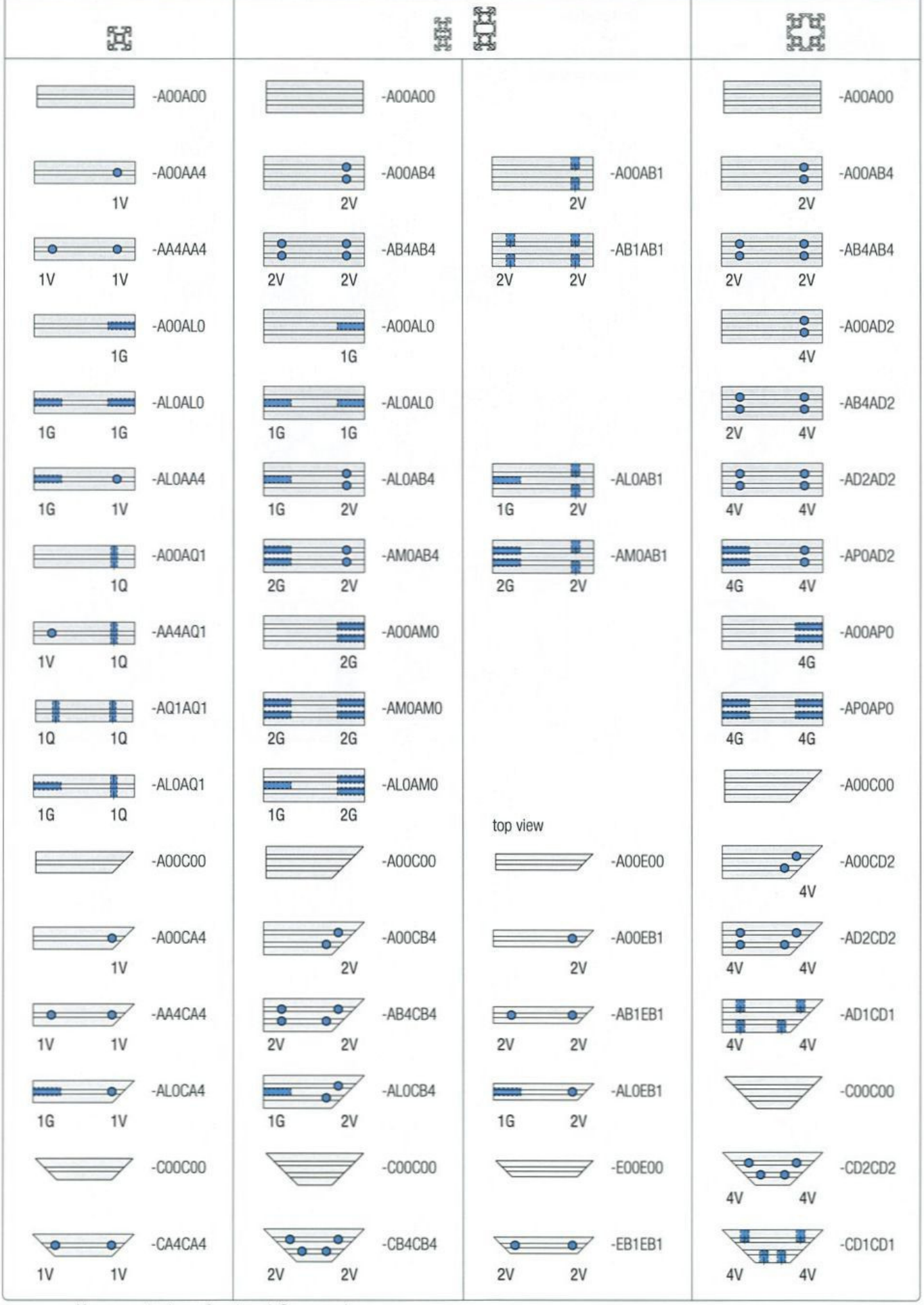








Coding examples for price group 1



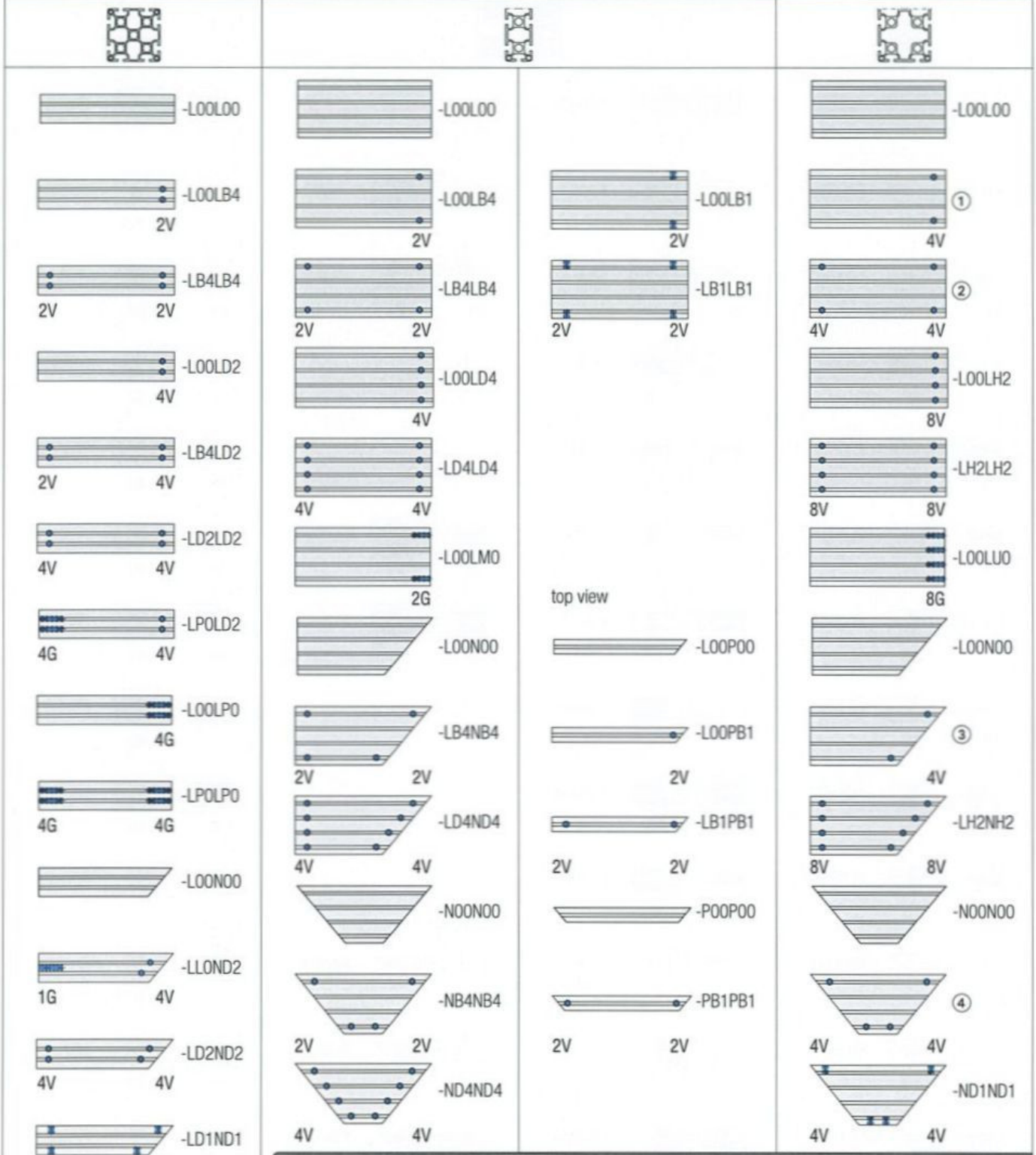
V = connector bore, G = thread, Q = cross bore

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
-F00FL0 1G	-F00FL0 1G		-F00FD2 4V
-FL0FL0 1G 1G	-FL0FL0 1G 1G		-FB4FD2 2V 4V
-FL0FA4 1G 1V	-FL0FB4 1G 2V	-FL0FB1 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
-FL0FQ1 1G 1Q	-FL0FM0 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
-FL0HA4 1G 1V	-FL0HB4 1G 2V	-FL0KB1 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

Coding examples for price group 3



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 Connector position, right: CFIM	*(additional description)*
③	1.11.□□□□□□.□□□ □□	-L00ND2	Profile □□□×□□□.□□□ □□ Connector position, right: CFIM	*(additional description)*
④	1.11.□□□□□□.□□□ □□	-ND2ND2	Profile □□□×□□□.□□□ □□ Connector position, left: CFIM Connector position, right: CFIM	*(additional description)*

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

Extruded profile as per DIN EN 12020

(fine)

(Replacement for DIN 17615)

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

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

Mechanical data

(Values given in the direction of the press flow)

Tensile strength Rm:	min.	250 N/mm²
Elongation 0.2:	min.	200 N/mm²
Pressure tension $\sigma_{zul.}$:		95 N/mm²
Stress point A_5:	min.	10 %
Stress point A_{10}:	min.	8 %
E-Module:	approx.	70,000 N/mm²
Brinell hardness:	approx.	75 HB 2.5/187.5
Co-efficient of elongation:		23.8 x 10^{-6}/K

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

1

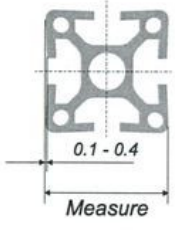
Profile tolerance

(Excerpt from DIN EN 12020-2)

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

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

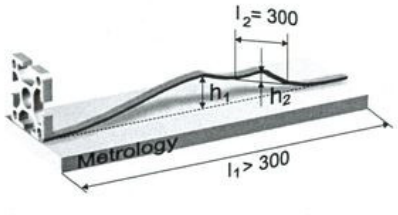
Flatness of profile surfaces



In order to optimize the connection stability, all profile surfaces are designed and manufactured with concave surfaces. This assures that the assembled profiles contact on the outer edges only (line of contact).
When tightening the connectors the slot flanks will be drawn to the mounting profile within the elastic range and will keep the connectors under tension.

Straightness tolerance

of the edge in longitudinal direction

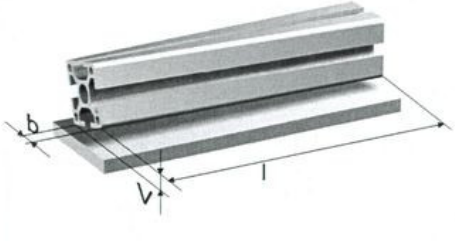


At a certain length l_1 the given tolerance h_1 is not to be exceeded.
For each incremental length of l_2 = 300 mm the deviation h_2 is not to exceed 0.3 mm.

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

Flatness tolerance

(Twist tolerance)



Width *b* in mm		Flatness tolerance					
Dim. range		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

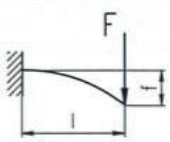
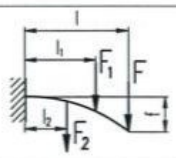
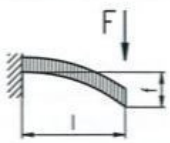
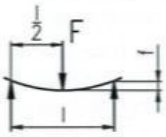
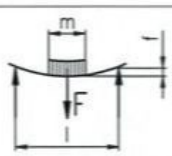
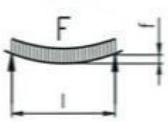
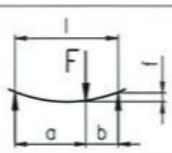
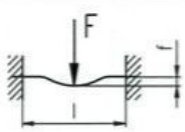
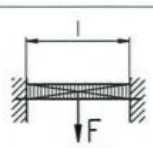
Bending strength
For the computation of deflection use formulas on this page.

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 (☛ *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		$f = \frac{F \cdot l^3}{192E \cdot J}$ [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.

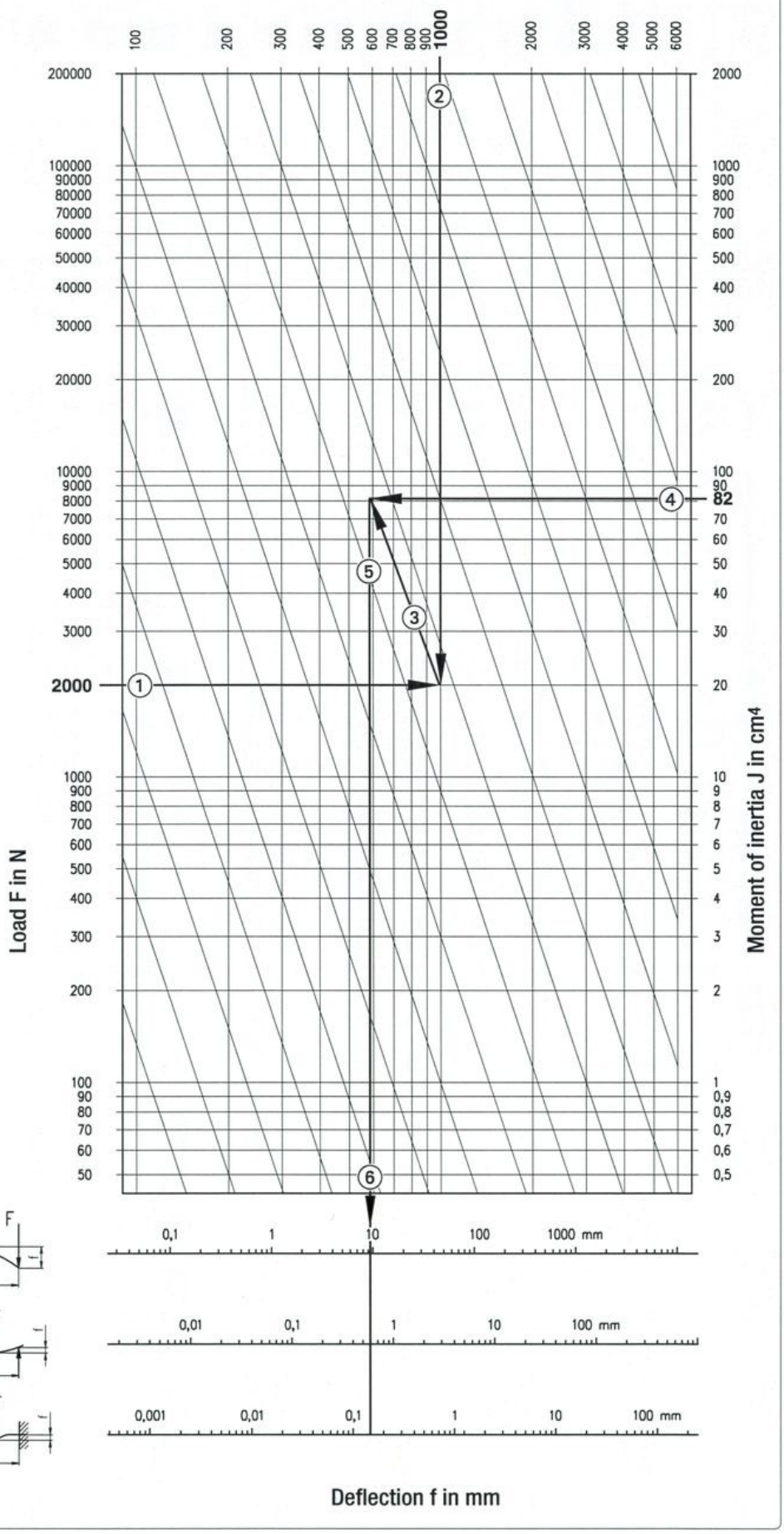
Determination of deflection

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 cm⁴
5. Cross point with the diagonal to be vertically extended to the bottom
6. Deflection f for the specific "Type of load" in mm

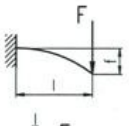
Example

① F = 2,000 N
② l = 1,000 mm
③ Move cross point on the diagonal
④ J = 82.0 cm⁴ for profile 40×80, 6E
⑤ Cross point with the diagonal to be vertically extended to the bottom
⑥ Deflection for the specific "Type of load" in mm:

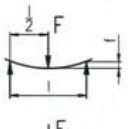
Type of load 1: f = 9.5 mm
Type of load 4: f = 0.6 mm
Type of load 8: f = 0.15 mm



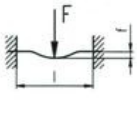
Type of load 1

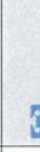
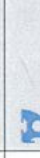
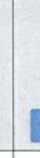
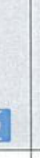
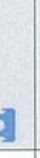
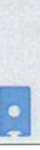


Type of load 4



Type of load 8



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

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

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

1) Ix, Iy = 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			20×40				20×40											
	F																		
30	F	30×60						30×60				30×100	30×100			30×150			
	E4										30×100						30×150		
40	E3	40×80	40×80		40×80	40×80	40×80	40×80		40×120				40×160	40×160				
45	E4	45×90						45×90											
50	E4							50×100	50×100	50×150									
60	E4																		

	Profile		Ix 1)	Iy 1)	Wx 2)	Wy 2)	G 3)	☛
	30×60,	0F, SP	29.0	7.8	9.6	5.2	2.2	1.13
	40×80,	0E, LP	66.8	18.4	16.7	9.2	2.7	1.17
	45×90,	0E, LP	107.5	30.4	23.9	13.5	3.6	1.25
	40×80,	3E, cor., LP	66.9	18.1	16.7	9.0	2.6	1.17
	20×40,	4H, SP	7.0	2.0	3.5	2.0	1.3	1.10
	40×80,	4E, LP	65.8	18.1	16.5	9.0	2.6	1.18
		4E, L	63.2	17.8	15.7	8.9	2.6	1.33
	40×80,	4E, LBP	67.7	16.3	16.9	8.7	2.7	1.18
	40×80,	5E, LP	72.2	18.1	18.0	9.0	2.8	1.18
	20×40,	6H, LP	5.3	1.4	2.6	1.4	0.9	1.10
		6H, SP	6.4	1.7	3.2	1.7	1.3	1.10
	30×60,	6F, LP	22.1	5.9	7.4	3.9	1.6	1.13
		6F, SP	25.0	7.0	8.3	4.7	2.1	1.13
		6F, L	21.9	5.8	7.4	3.8	1.6	1.31
		6F, S	25.0	7.0	8.3	4.7	2.1	1.31
	40×80,	6E, LP	65.4	17.5	16.4	8.8	2.5	1.18
		6E, SP	82.0	23.4	20.5	11.7	3.8	1.18
		6E, L	62.7	17.0	15.6	8.5	2.6	1.33
		6E, S	82.0	23.4	20.5	11.7	3.8	1.33
	45×90,	6E, LP	98.0	27.5	21.8	12.2	3.3	1.26
		6E, SP	126.0	34.0	28.0	15.0	4.4	1.26
		6E, L	98.0	27.5	21.8	12.2	3.3	1.35
		6E, S	126.0	34.0	28.0	15.0	4.4	1.35
	50×100,	6E, SP	195.7	55.4	39.2	22.3	5.7	1.27
		6E, L	138.0	37.0	27.5	14.5	3.5	1.37
		6E, S	202.0	57.2	40.4	22.8	5.9	1.37
	50×100,	8E, L	137.0	40.0	27.5	16.0	4.0	1.37
		8E, S	200.0	53.3	39.9	21.3	6.0	1.37
	40×120,	8E, LP	200.4	25.4	33.4	12.7	3.8	1.19
		8E, L	198.5	25.2	34.2	12.6	3.6	1.33
	50×150,	8E, S	628.0	83.0	83.0	33.0	8.1	1.37
	30×100,	3F, SP	120.4	12.8	24.0	8.5	3.6	1.14

	Profile	Ix 1)	Iy 1)	Wx 2)	Wy 2)	G 3)	☛
	30×100, 8F, SP	115.0	11.6	22.9	7.7	3.4	1.14
	30×100, 10F, SP	127.0	11.9	25.4	7.9	3.6	1.14
	40×160, 6E, LP	450.4	36.3	56.3	18.1	5.0	1.19
	40×160, 10E, LP	433.5	33.1	54.2	16.5	4.7	1.19
	30×150, 8F, SP	340.0	16.0	45.0	11.0	4.1	1.15
	30×150, 8E, SP	481.0	25.1	64.1	16.7	7.9	1.15

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

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

1) Ix, Iy = 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										30 octag.					
	E4															
40	F			40×30°												
	E3	40×40	80×80		40×45°	40×60°	40×90°				40 octag.					
45	E4															
50	E4							48 round	48 round	48 round						
60	E4															

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

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

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

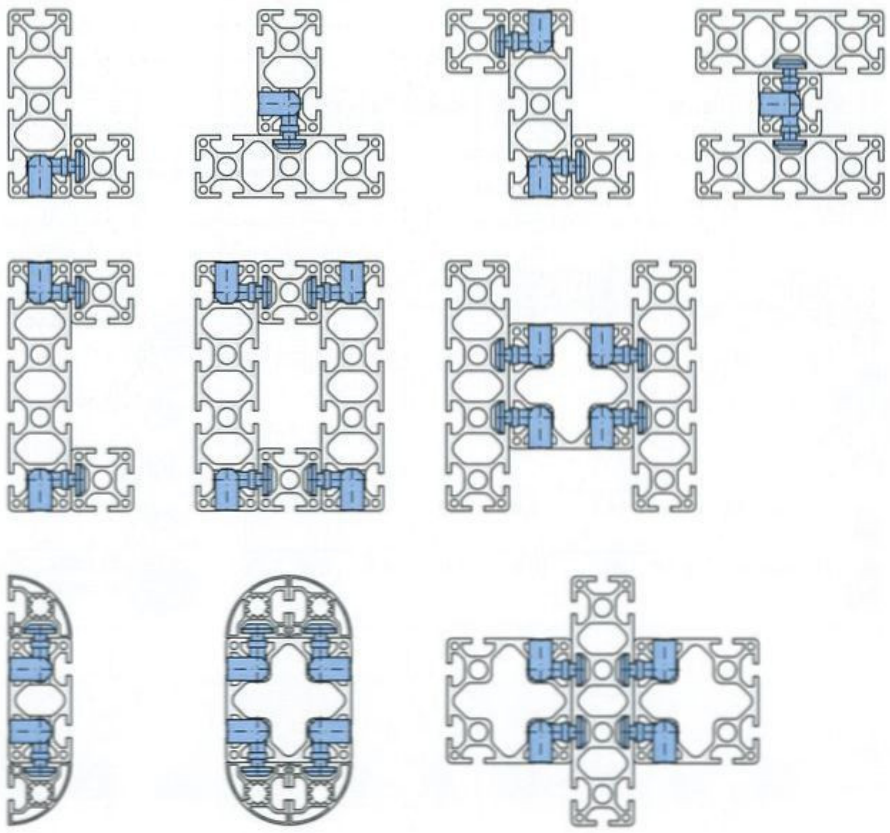
	Profile	Ix 1)	Iy 1)	Wx 2)	Wy 2)	G 3)	☛
	30×30, 0F, P, LP	3.8	3.8	2.4	2.4	1.10	1.41
	30×30, 2F, P, LP 5	4.3	3.3	2.8	2.2	1.20	1.41
	2F, P, LP 6	3.6	2.8	2.4	1.9	1.00	1.41
	30×30, 2F, WG, LP 7.5	2.6	3.2	1.7	2.1	0.86	1.44
	40×40, 2E, WG, LP 7.5	7.5	8.2	3.8	4.1	1.35	1.45
	30×30, 2F, c., P, LP 4	3.3	3.3	2.2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

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

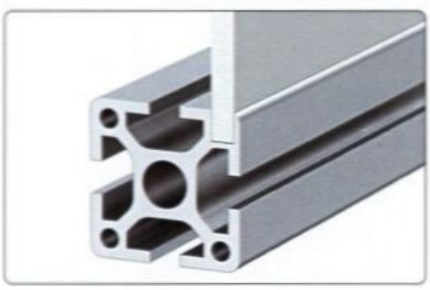
1) Ix, Iy = moment of inertia in cm⁴ 2) Wx, Wy = moment of resistance in cm³ 3) G = weight in kg/m

Profile combinations

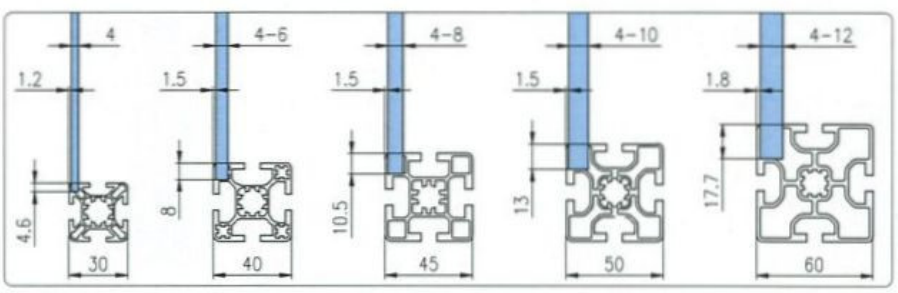
With the MayTec Connector System it is possible to make a multitude of form-matching and stable profile combinations.



Special slits

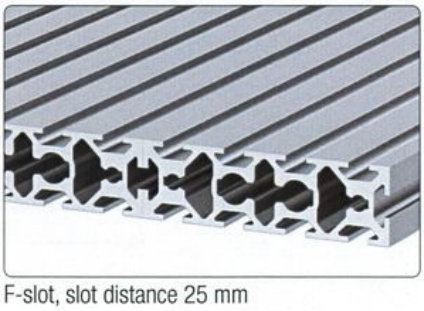


Panel elements can be set in the profile flush to the outer edge for form-matching design. The slits needed for that can be made in nearly all profiles.

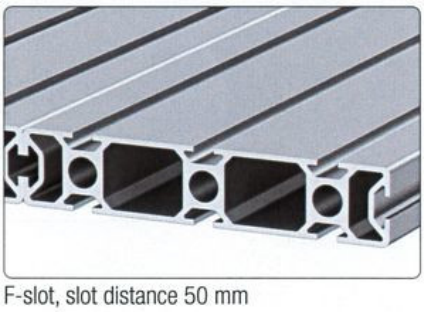


Slot plates

F-slot



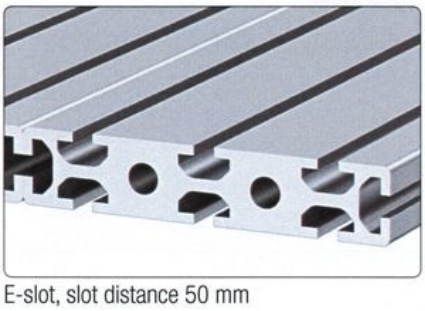
F-slot, slot distance 25 mm



F-slot, slot distance 50 mm

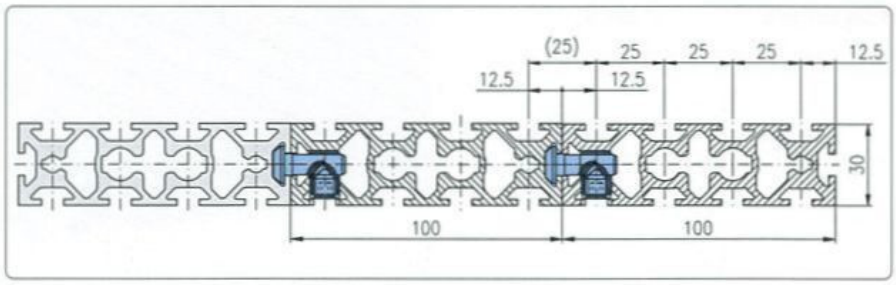
Application
Profiles to construct slot plates of any required size

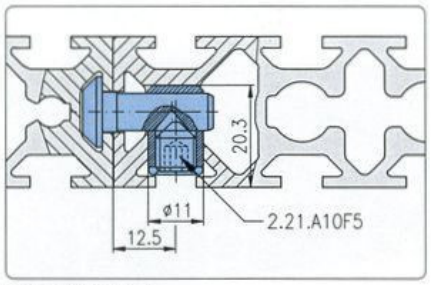
E-slot



E-slot, slot distance 50 mm

Slot plates F-slot
Slot distance 25 mm



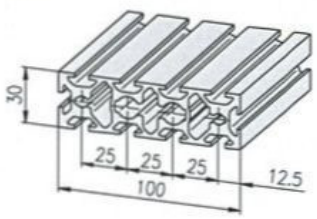


Drill dimensions

Single parts

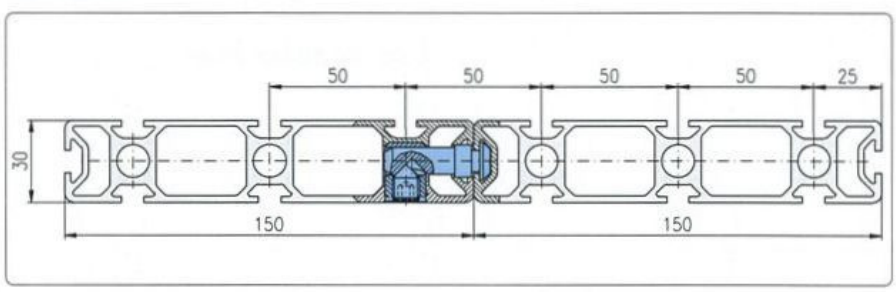
anchor	2.21.A10F5
cross bushing	2.21.B10

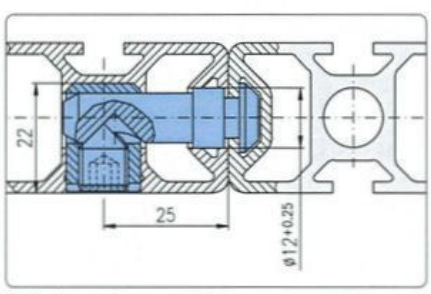
Profile 30×100, 10F, SP



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

Slot plates F-slot
Slot distance 50 mm



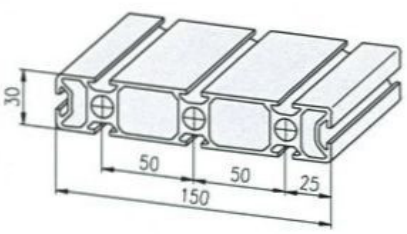


Drill dimensions

Single parts

anchor	1.21.A5F5
cross bushing	1.21.B30

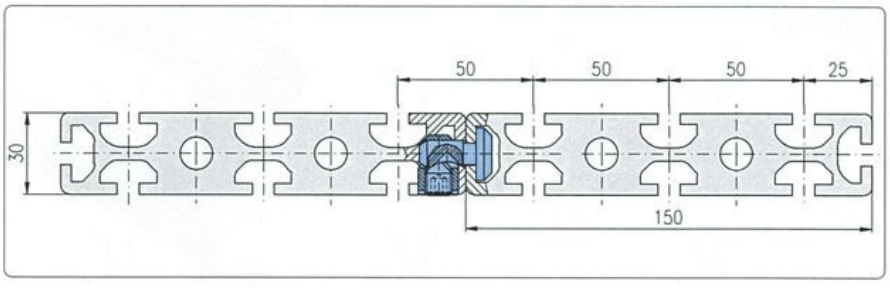
Profile 30×150, 8F, SP

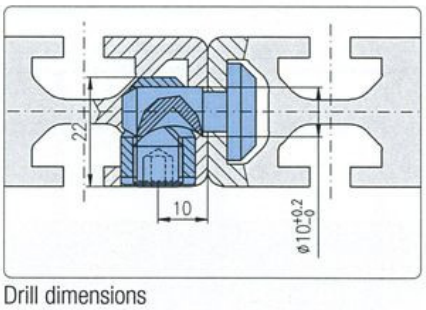


Description		Weight	Article-No.
Profile 30×150, 8F, SP	bar 6 m	4.1 kg/m	1.11.030150.85SP.60

machining data ☛ *Profile machining 1.1A*

Slot plates E-slot
Slot distance 50 mm





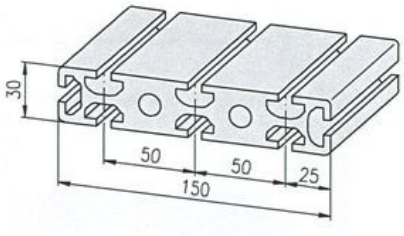
Drill dimensions

Single parts

anchor	1.21.A2E5
cross bushing	1.21.B34

1

Profile 30×150, 8E, SP



Description		Weight	Article-No.
Profile 30×150, 8E, SP	bar 6 m	7.9 kg/m	1.11.030150.84SP.60

machining data ☛ *Profile machining 1.1A*

Hand rail

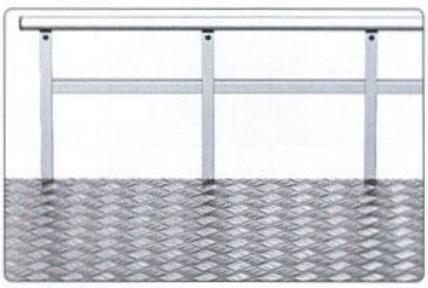
Post: Profile 40×40

Application

Hand rail for balustrades on stairs and platforms

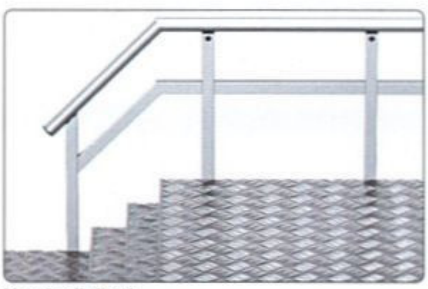
Comments

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

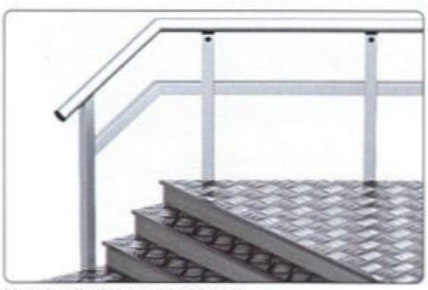


Hand rail straight

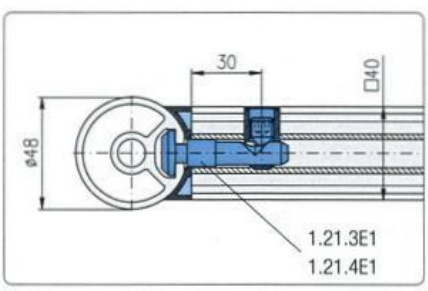
Hand rail angled



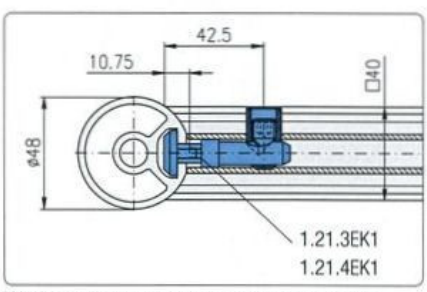
Hand rail tilted



Hand rail tilted and angled



Working dimensions for hand rail straight with radius compensation



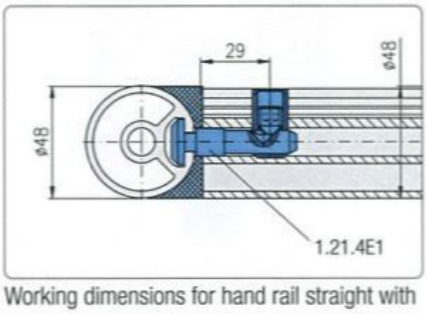
Working dimensions for hand rail straight, tilted and/or angled without radius compensation (milled)

Hand rail

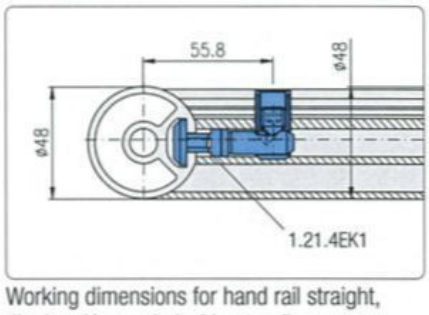
Post: Profile Ø48

Application
Hand rail for balustrades on stairs and platforms

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

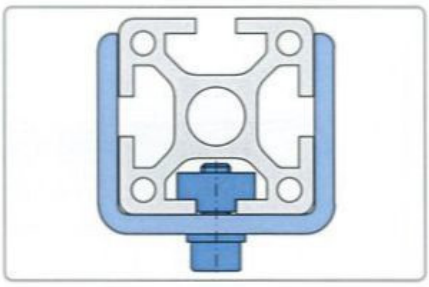


Working dimensions for hand rail straight with radius compensation

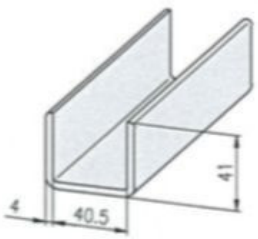


Working dimensions for hand rail straight, tilted and/or angled without radius compensation (milled)

U-Profile 40

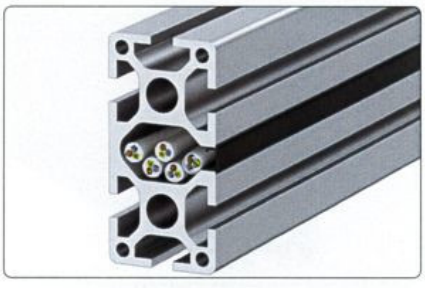


Application
For the construction of height adjustable frames on 40×40 and 40×80 profile bases



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

Profiles for cable guide

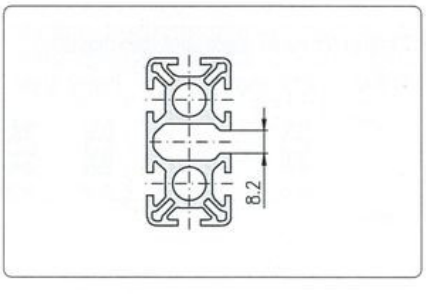


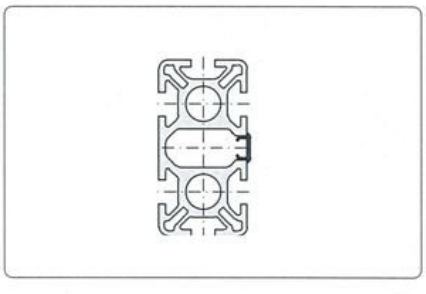
Application
For running cables or pneumatic hoses.
All chamber profiles can be delivered with open slots.

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

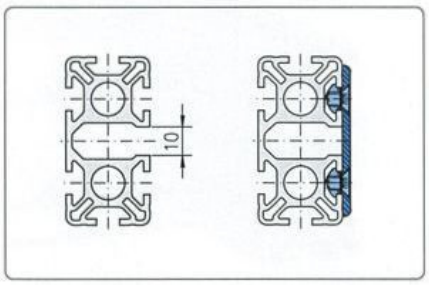
Order

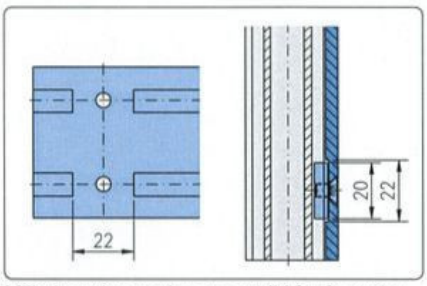
Profile 40×80, 6E S,	1.11.040080.64S-F00F00/4500
slotted 8 mm, special machining as per drawing	SBZ1

machining data ☛ *Profile machining 1.1A*

Profiles for cable guide
Slot distance 30

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





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

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

Order details

Description	Article-No.
Profile □□□□□□,	1.11.□□□□□□.□□
slotted 10 mm, special machining as per drawing	SBZ2

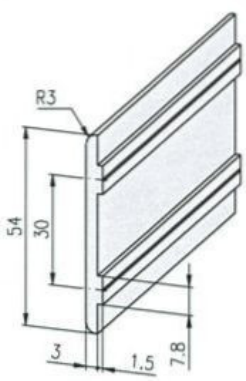
Order example

Order request
Profile 30×60 mm, 6 F-slots, heavy, 10 mm slotted, length 4.5 m

Order

Profile 30×60, 6F S,	1.11.030060.65S-A00A00/4500
slotted 10 mm, special machining as per drawing	SBZ2

Profile pre-cut lid 30

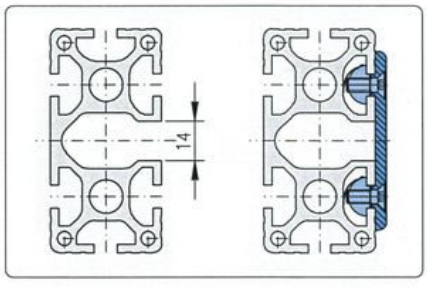


Single parts
- countersunk screw DIN 7991, M5×8 0.63.D07991.05008
- threaded plate F, M5 1.31.FM5
- T-Nut for subsequent insertion F, M5 1.32.4FM5

Description	Weight	Article-No.
Profile pre-cut lid 30	0.49 kg/m	1.19.110130

machining data ☛ *Profile machining 1.1A*

Profiles for cable guide
Slot distance 40



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

Profiles for cable guide, slot distance 40

Profile	light, plain	heavy, plain	light	heavy
40×80	0E LP, 3E c.LP, 4E LP, 4E LBP, 5E LP, 6E LP	6E SP	4E L, 6E L	6E S
80×80	0E LP, 4E c. LP, 6E LP, 8E LP, 8E LBP, 7E 45° LP	7E SP, 8E SP, 8E ang. SP	8E L, 8E LB	8E S, 8E angle S
	40×120 8E LP; 40×160 6E LP, 10E LP; 80×160 8E LP, 12E LP	80×120 10E SP; 80×160 12E SP; 120×120 12E SP	40×120 8E L; 80×160 12E L	

Order details

Description	Article-No.
Profile □□□□□□,	1.11.□□□□□□.□□
slotted 14 mm, special machining as per drawing	SBZ3

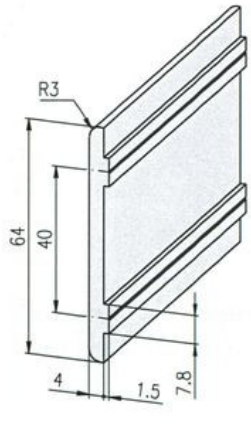
Order example

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

Order

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

Profile pre-cut lid 40

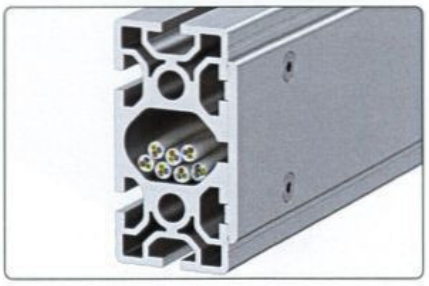


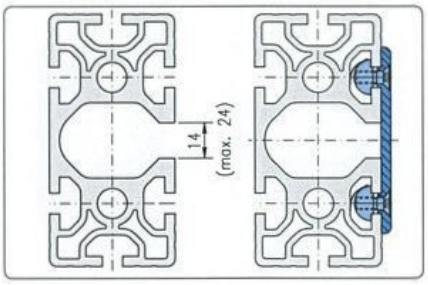
Single parts
- countersunk screw DIN 7991, M6×14 — 0.63.D07991.06014
- threaded plate E, M6 — 1.31.EM6
- T-Nut for subsequent insertion E, M6 — 1.32.4EM6

Description	Weight	Article-No.
Profile pre-cut lid 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	30×100	30×150	50×100	100×100	100×200	50×100	100×100	50×100	50×150	100×100
3F SP	8F SP	8F SP	6E SP	8E SP	12E SP	6E L	8E L	6E S	8E S	8E S

Order details

Description	Bestell-Nr.
Profile □□□□□□,	1.11.□□□□□□.□□
slotted 14 mm, special machining as per drawing	SBZ4

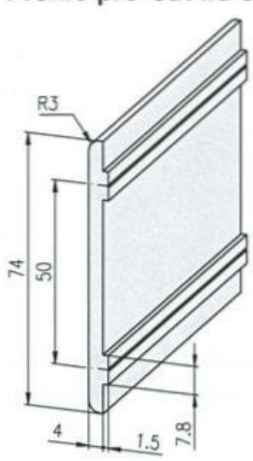
Order example

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

Order

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

Profile pre-cut lid 50



Single parts

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

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

Description	Weight	Article-No.
Profile pre-cut lid 50	0.85 kg/m	1.19.110150

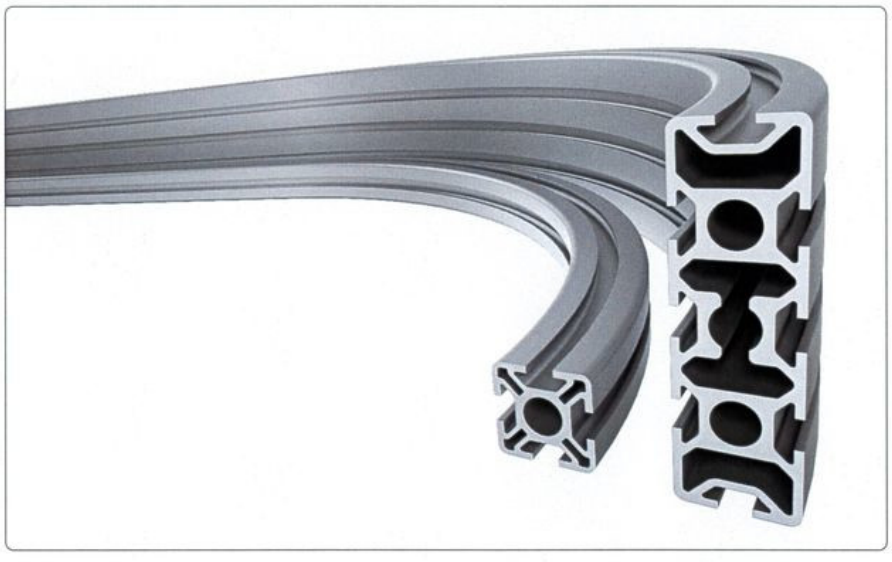
machining data ☛ *Profile machining 1.1A*

Curved profiles

For curved profiles the following data is required:

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

Position of profile

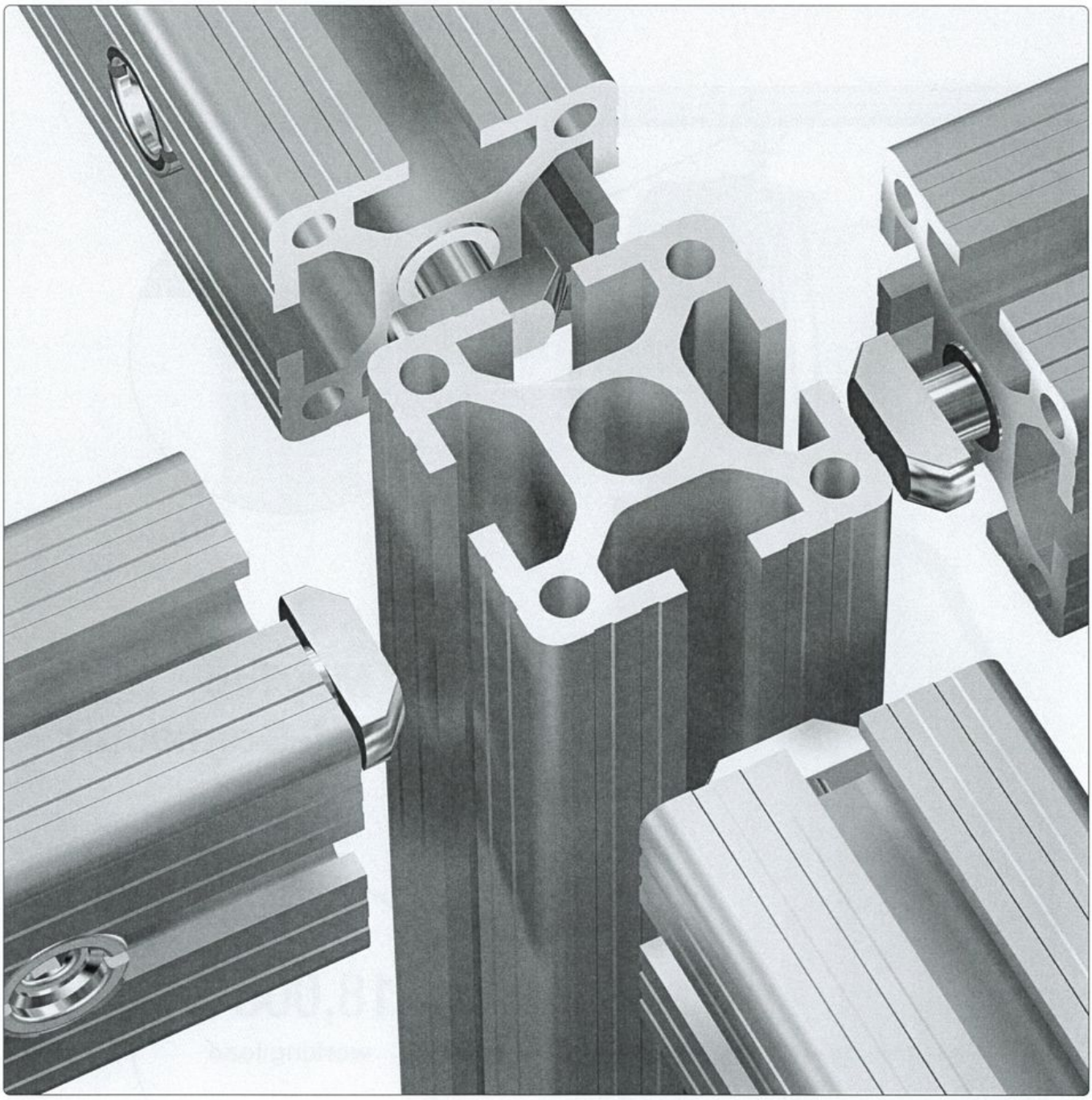


Function 'T- Nut' position of slot(s)												Function 'threaded plate' position of slot(s)												Function 'connector' position of slot(s)												position of core hole(s)							
A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	A	B	C	D	E	F	G	H	I	K	L	M	a	b	c	d	e	f	g	h

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
1.11.030030.23LP		30×30, 2F, LP	700
1.11.030030.23SP		30×30, 2F, SP	700
1.11.030030.33L		30×30, 3F, L	700
1.11.030030.33LP		30×30, 3F, LP	700
1.11.030030.33S		30×30, 3F, S	700
1.11.030030.33SP		30×30, 3F, SP	700
1.11.030030.43L		30×30, 4F, L	700
1.11.030030.43LP		30×30, 4F, LP	700
1.11.030030.43S		30×30, 4F, S	700
1.11.030030.43SP		30×30, 4F, SP	700
1.11.030050.44L		30×50, 4F, L	700
1.11.030050.44LP		30×50, 4F, LP	700
1.11.030050.44S		30×50, 4F, S	700
1.11.030050.44SP		30×50, 4F, SP	700

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



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:

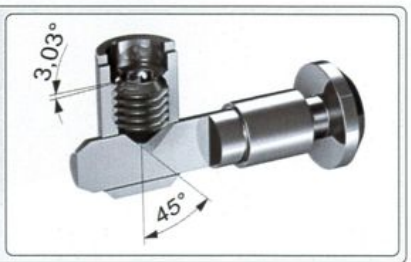
- easy machining
- quick assembly
- innumerable (dis)assemblies

The connection system is:

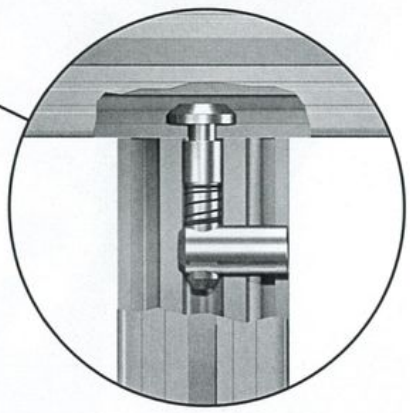
- complete
- stable
- functional

Vibration proof

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



Stability S-Class



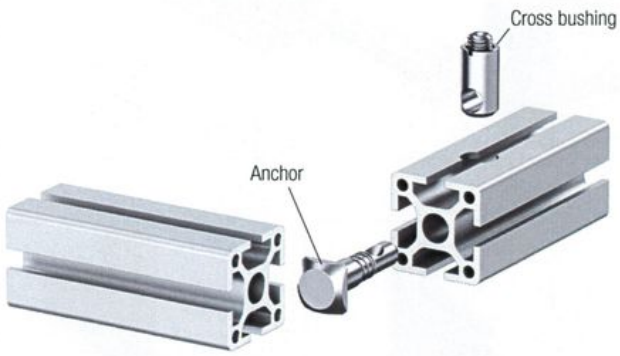
MayTec Universal-Connector

18,000 N
working load

Vibration proof

MayTec connector with square head

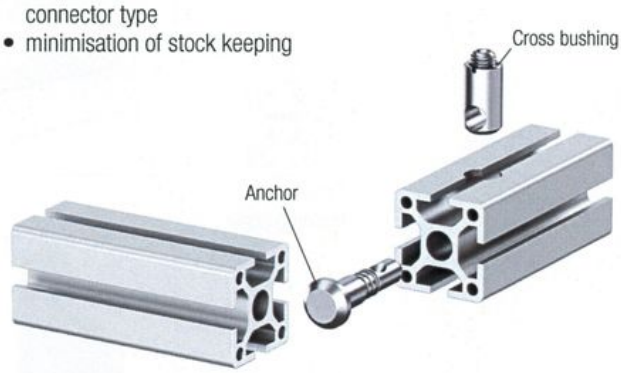
The MayTec connector with square head offers the highest load bearing capacity.



MayTec universal-connector

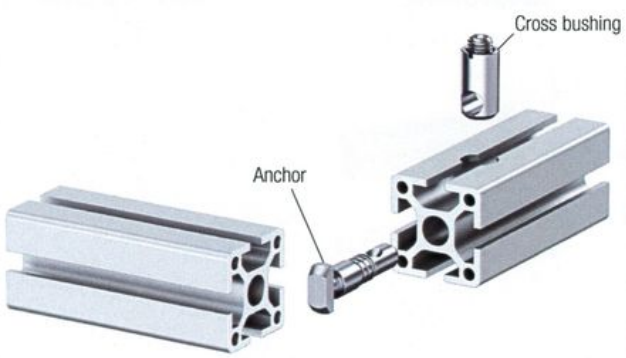
The MayTec universal-connector allows:

- 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



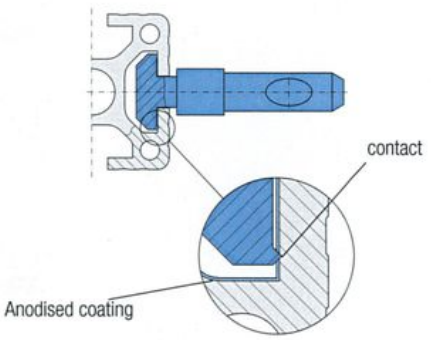
MayTec standard-connector

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



MayTec ground-connector for potential equalisation

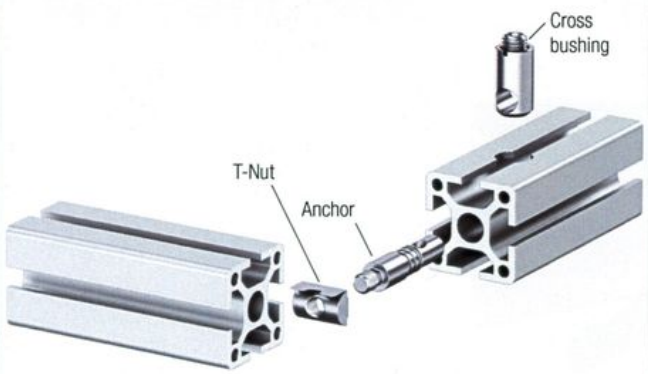
The MayTec ground-connector allows potential equalisation between two profiles. When the connector is tightened, the serration at the rear of the anchor head penetrates the anodised profile coating and thus provides an electrical contact.



Deliverable types ☛ *Connectors 1.2A*
Ground connections ☛ *1.70*

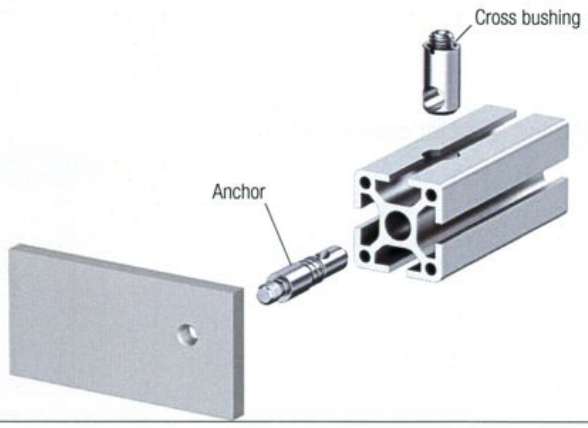
MayTec screw-type connector

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



MayTec screw-type connector

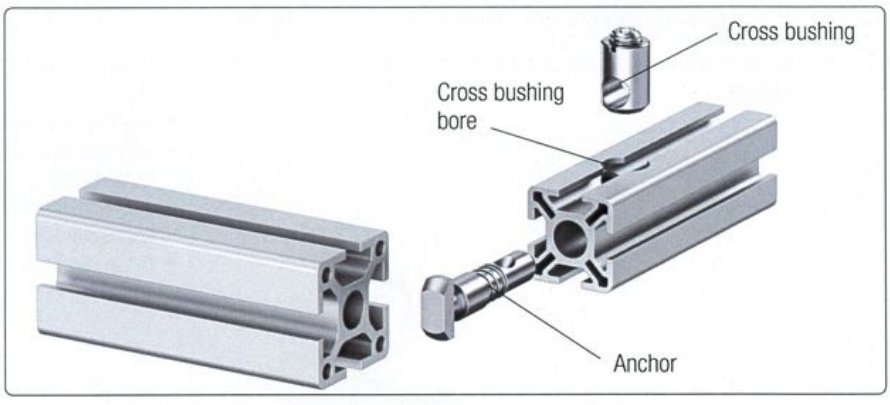
The MayTec screw-type connector allows connection to threaded holes in plates.



2

The MayTec Connector System

- **mounting of connector in core hole**
- **with machining**



Cross bushing bore

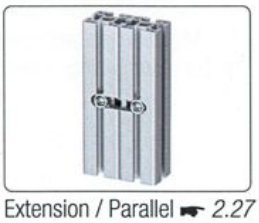
Standard ☛ *2.12*

Screw-type ☛ *2.11, 2.16*

Parallel ☛ *2.10, 2.14*

Oblique ☛ *2.10, 2.12*

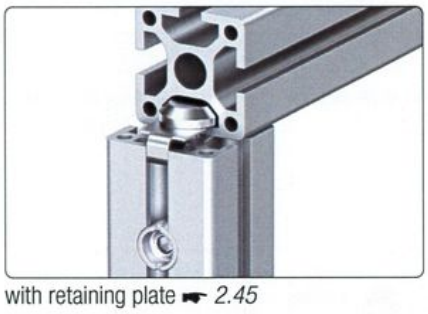
Oblique-cross ☛ *2.13*


Extension / Parallel ☛ *2.27*

Miter ☛ *2.10, 2.15*

Extension ☛ *2.10, 2.14*

Anti-twist devices


with retaining plate ☛ *2.45*

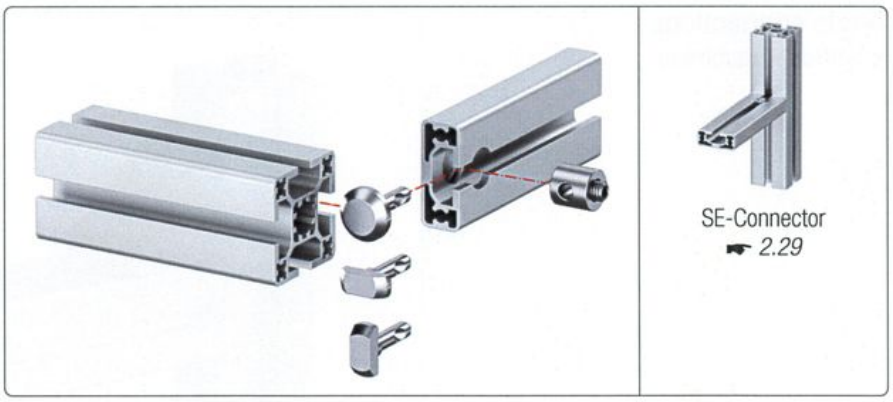
with T-Nut ☛ *3.07 - 3.10*

Clamping lever for connectors

Clamping lever ☛ *2.48*

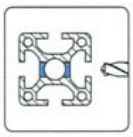
The MayTec Connector System
- mounting of connector in slot
- with machining

Cross bushing bore

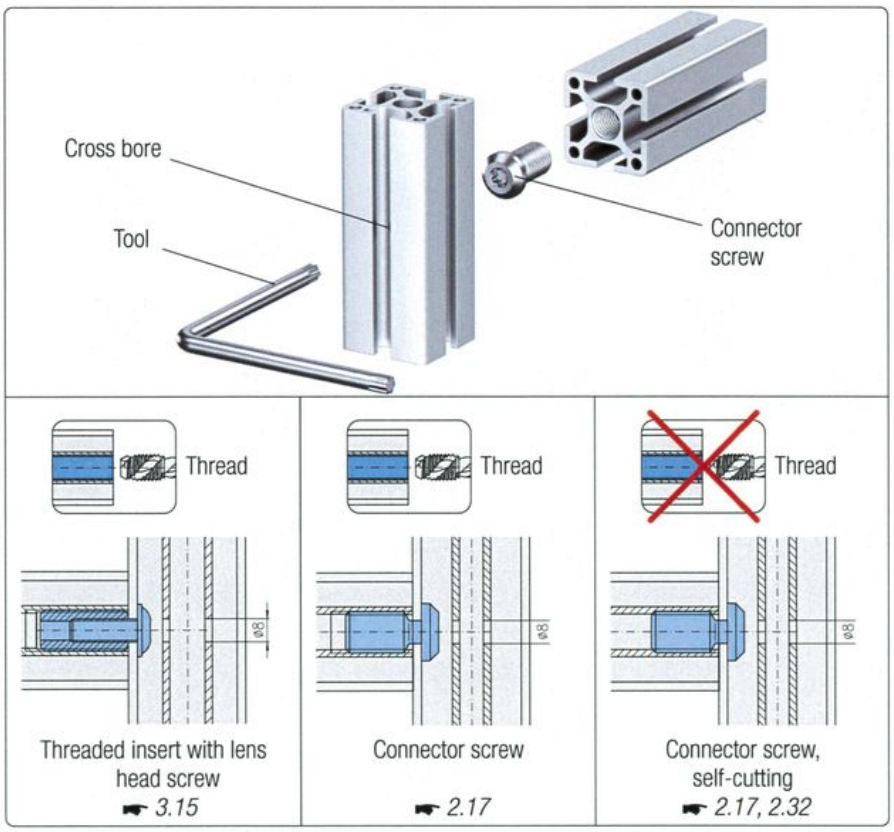


Cross bushing bore

Screw-type connections
- with machining



Cross bore



2

Angle connections
- **without machining**

Angle PA
☛ *4.62*

Angle GD-Zn, GD-Al
☛ *4.63*

Manufacture a connection

Example
Connection of two profiles 40×40 with one standard connector

1. Connector selection

☛ *1.2, Connector selection*

2. Profile machining

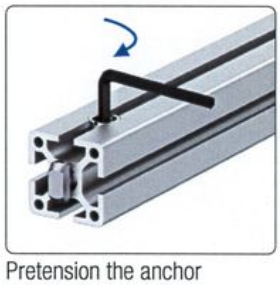
☛ *1.1A, Profile machining*
☛ *1.99, Tools*

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

3. Pre-assembly of the connector

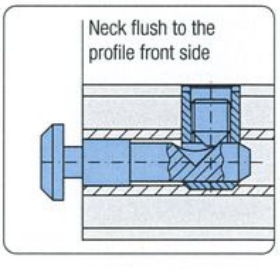
Insert the cross bushing

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

or

Turn the profile

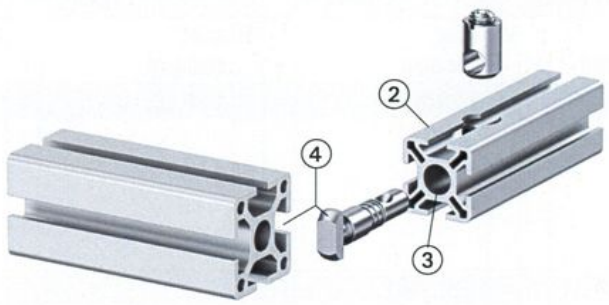
②

Push in front sided

Tighten the setscrew

2

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°)	

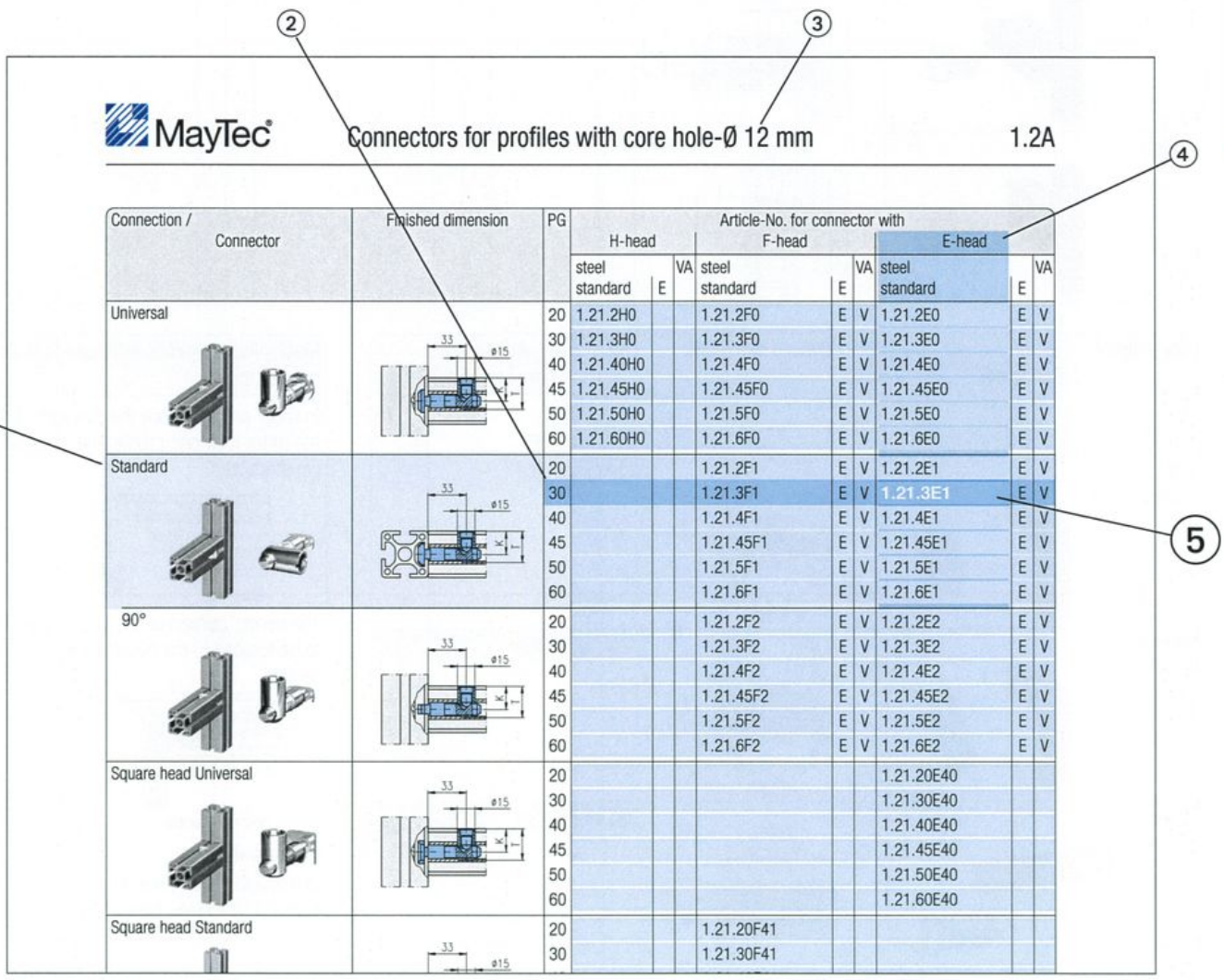
Connector types and materials

Connector	Article-No.	Technical data
Standard	1.21.2E0	material: steel strength: ≥ 650 N/mm² surface: galvanised
Standard, ground	1.21.2E0 E	
Standard VA	1.21.2E0 V	material: stainless steel 1.4305 strength: 490-685 N/mm² surface: pickled and passivated

Special cases

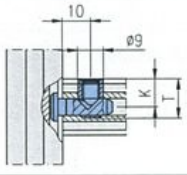
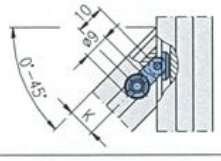
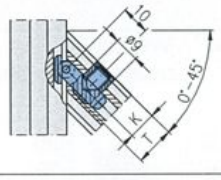
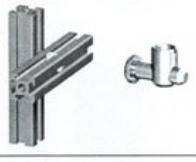
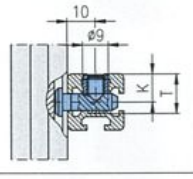
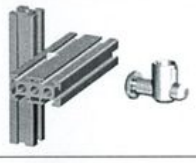
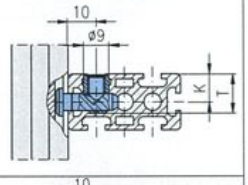
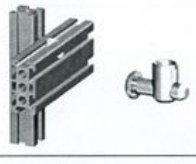
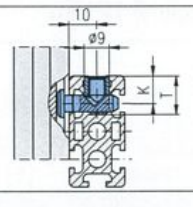
Profile	Mounting position	PG for connector selection	Mounting position	PG for connector selection
20×30 30×50		20 30		30 50
30×100		30		50

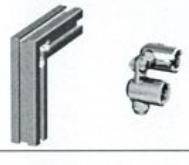
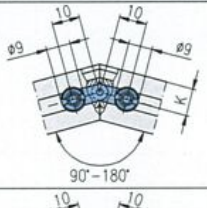
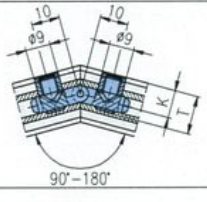
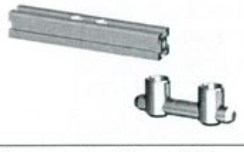
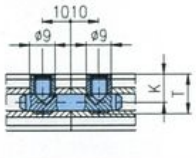
2



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

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

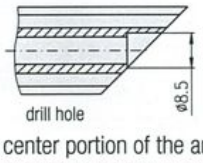
Connection / Connector	Finished dimension	PG	Article-No. for connector with H-head steel standard	H-head E	H-head VA	F-head steel standard	F-head E	F-head VA	E-head steel standard	E-head E	E-head VA
Universal		20	1.20.2H0		V	1.20.2F0			1.20.2E0		
Oblique -hinge l + r		20	1.20.2HK1			1.20.2FK1					
Oblique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

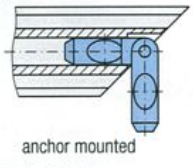
E = ground-connector, VA = stainless steel 1.4305

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

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

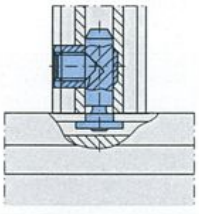
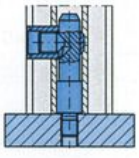
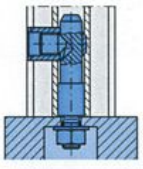


The center portion of the anchor part is to be located in the counterbored profile section

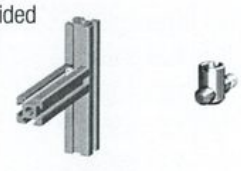
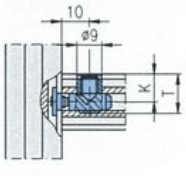
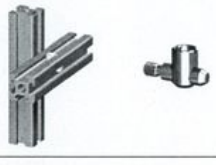
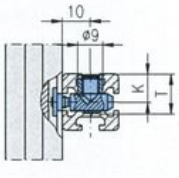
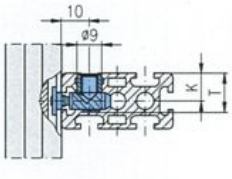
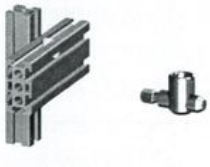
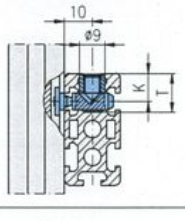


Comments

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

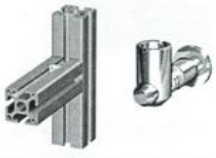
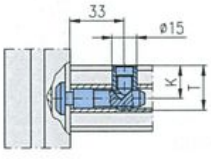
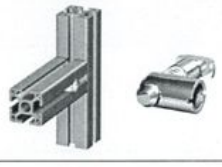
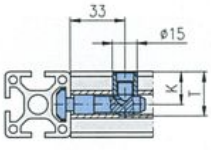
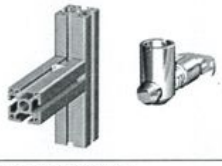
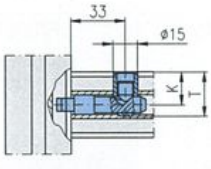
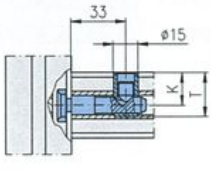
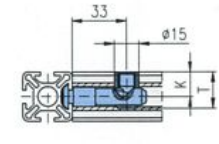
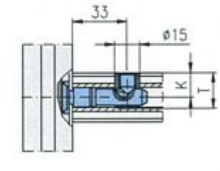
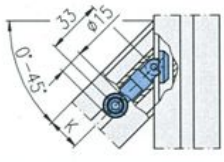
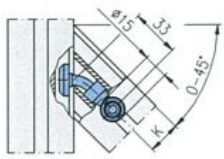
Connection variants with screw-type connectors		
		
Profile with profile	Profile to plate with thread	Profile to plate with through-hole

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

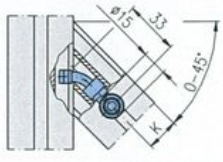
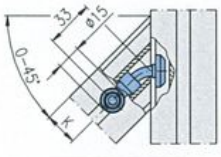
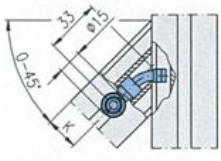
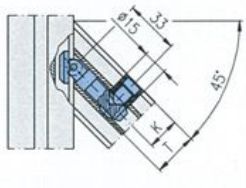
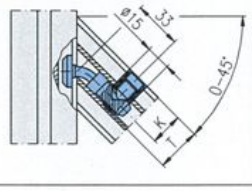
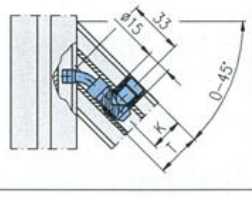
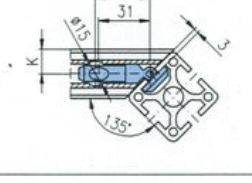
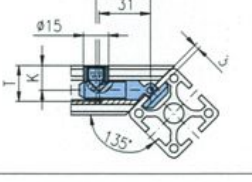
Connection / Connector	Finished dimension	PG	thread	Article-No. for connector steel standard	VA E	
Screw-type front sided 		20	M4×7	1.20.2S2M4/7		V
			M5×7	1.20.2S2M5/7		
			M6×7	1.20.2S2M6/7		
Screw-type parallel -square 						
-cross						
-high 						

2

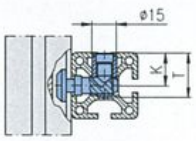
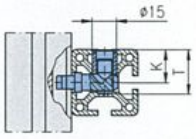
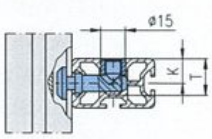
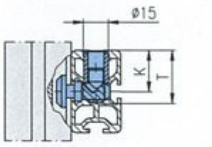
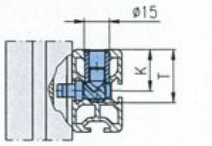
E = ground-connector, VA = stainless steel 1.4305

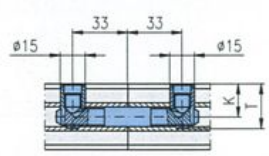
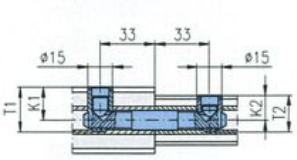
Connection / Connector	Finished dimension	PG	Article-No. for connector with H-head steel standard	H-head E	H-head VA	F-head steel standard	F-head E	F-head VA	E-head steel standard	E-head E	E-head VA
Universal 		20	1.21.2H0			1.21.2F0	E	V	1.21.2E0	E	V
		30	1.21.3H0			1.21.3F0	E	V	1.21.3E0	E	V
		40	1.21.40H0			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	

E = ground-connector, VA = stainless steel 1.4305

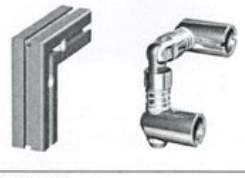
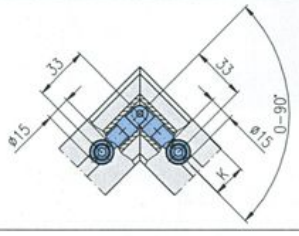
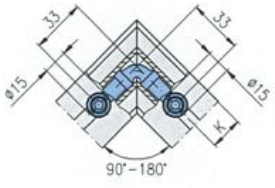
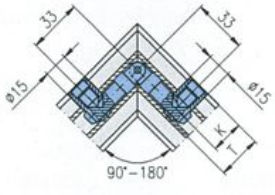
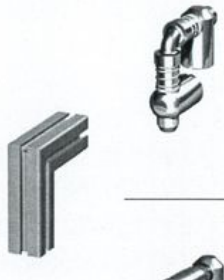
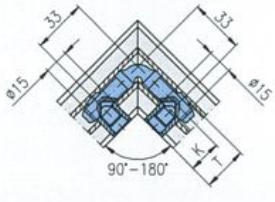
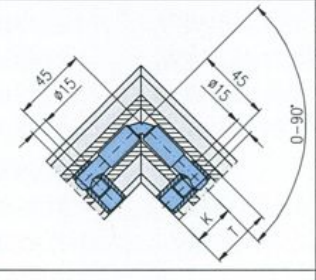
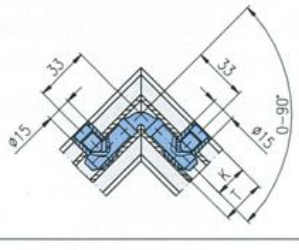
Connection / Connector	Finished dimension	PG	Article-No. for connector with H-head steel standard	H-head E	H-head VA	F-head steel standard	F-head E	F-head VA	E-head steel standard	E-head E	E-head VA
Oblique -bent anchor standard l		20				1.21.2F1B1L/□□			1.21.2E1B1L/□□		
		30				1.21.3F1B1L/□□			1.21.3E1B1L/□□		
		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

E = ground-connector, VA = stainless steel 1.4305

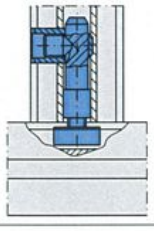
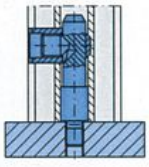
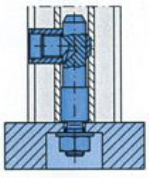
Connection / Connector	Finished dimension	PG	Article-No. for connector with H-head steel standard	H-head E	H-head VA	F-head steel standard	F-head E	F-head VA	E-head steel standard	E-head E	E-head VA
Parallel -square		20									
		30				1.21.3F5			1.21.3E5		
		40				1.21.4F5			1.21.4E5		
		45				1.21.45F5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

Connection / Connector	Finished dimension	PG, K×2	Article-No. for connector steel standard	E	VA	PG, K×2	Article-No. for connector 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

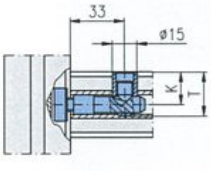
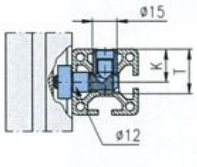
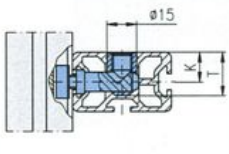
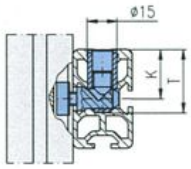
E = ground-connector, VA = stainless steel 1.4305

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

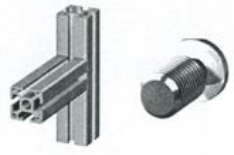
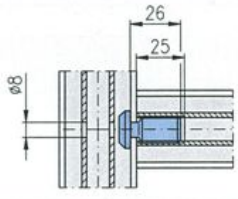
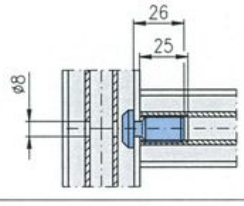
E = ground connector, VA = stainless steel 1.4305

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

Mounting instruction for screw-type connectors
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, Length of thread 7 mm, steel standard	E	VA	E-slot, 11 mm, steel standard	E	VA	other, 40 mm, steel standard	E	VA
Screw-type - front sided		20	M6				1.21.2S1M6/11					
		30					1.21.3S1M6/11					
		40					1.21.4S1M6/11					
		45					1.21.45S1M6/11					
		50					1.21.5S1M6/11					
		60					1.21.6S1M6/11					
		20	M8	1.21.20S1M8/7			1.21.2S1M8/11		V	1.21.2S1M8/40		
		30		1.21.30S1M8/7			1.21.3S1M8/11		V	1.21.3S1M8/40		
		40		1.21.40S1M8/7			1.21.4S1M8/11		V	1.21.4S1M8/40		
		45		1.21.45S1M8/7			1.21.45S1M8/11		V	1.21.45S1M8/40		
		50		1.21.50S1M8/7			1.21.5S1M8/11		V	1.21.5S1M8/40		
		60		1.21.60S1M8/7			1.21.6S1M8/11		V	1.21.6S1M8/40		
Screw-type - parallel -square		20	M8				1.21.2S5M8/11					
		30		1.21.3S5M8/7			1.21.3S5M8/11					
		40		1.21.4S5M8/7			1.21.4S5M8/11					
		45					1.21.45S5M8/11					
		50					1.21.5S5M8/11					
		60					1.21.6S5M8/11					
-cross		20	M8				1.21.2/3S5M8/11					
		30					1.21.3/5S5M8/11					
		40										
		45										
		50										
		60										
-high		20	M8									
		30					1.21.3/2S5M8/11					
		40										
		45										
		50					1.21.5/3S5M8/11					
		60										

E = ground-connector, VA = stainless steel 1.4305

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

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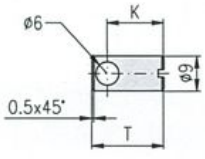
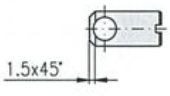
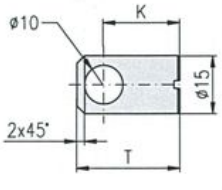
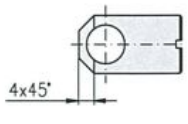
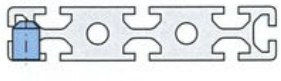
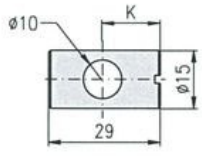
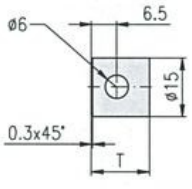
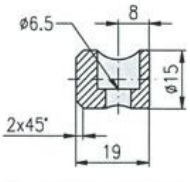
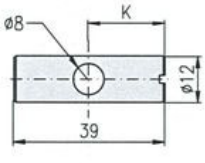
E = ground connector, VA = stainless steel 1.4305

Slot type / Cross bushing	Chamfer	Profile	PG	Core hole distance K	Boring depth, Cross bushing lenght T	Drill-Ø	Article-No. steel	VA
H-slots								
	0.5×45°	Standard	20	10	14	9.2	1.20.B21	V
	1.5×45°	 1.10.020020.21SP	20	10	14	9.2	1.20.B22	
F + E-slots								
	2×45°	Standard	20 30 40 40 45 50 60	10 15 20 20 22.5 25 30	17 22 27 27 29.5 32 37	15.25 15.25 15.25 15.25 15.25 15.25 15.25	1.21.B20 1.21.B30 1.21.B40 1.21.B40R 1.21.B45 1.21.B50 1.21.B60	V V V V V V
	4×45°	 1.11.030030.21S(P)  1.11.030150.84SP	30	15	22	15.25	1.21.B34	
		 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 ☛ *2.26*		30×150	15	30	15.25	1.21.B31	
Special- SE-Connector ☛ *2.29*		16, E3 E4	- -	15 16	15.25 15.25	1.21.BE3 1.21.BE4	
Special- ST-Connector ☛ *2.30*		E	-	19	15.25	1.21.STBM6	
Special- ST-Connector with screw-type anchor ☛ *2.31*		16, E3	-	40	12.2	1.21.STSB40	

tools ☛ *1.99*, VA = stainless steel 1.4305

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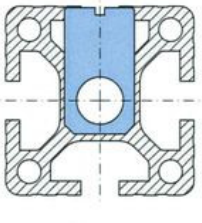
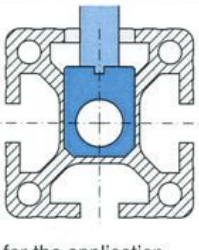
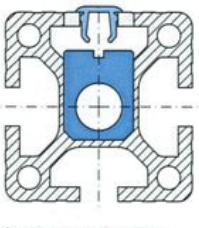
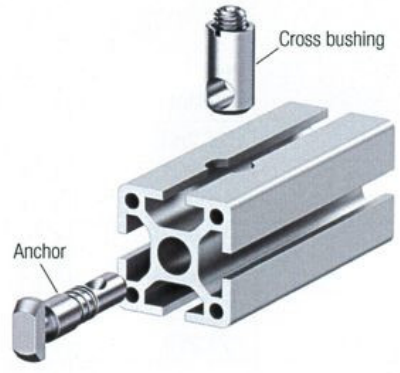
Mounting variants

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

Connector components



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

Connector components for profiles with
core hole-Ø 6 mm ☛ *2.21*
core hole-Ø 12 mm ☛ *2.22 - 2.25*

Connector for core hole-Ø 6 mm				Connector complete PG 20			Single parts 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
				1.21.2E0	E	V	1.21.3E0	E	V	1.21.4E0	E	V
		Standard		1.21.2F1	E	V	1.21.3F1	E	V	1.21.4F1	E	V
				1.21.2E1	E	V	1.21.3E1	E	V	1.21.4E1	E	V
		90°		1.21.2F2	E	V	1.21.3F2	E	V	1.21.4F2	E	V
				1.21.2E2	E	V	1.21.3E2	E	V	1.21.4E2	E	V
		Square head	Universal	1.21.20E40			1.21.30E40			1.21.40E40		
			Standard	1.21.20F41			1.21.30F41			1.21.40F41		
			90°	1.21.20F42			1.21.30F42			1.21.40F42		
		Oblique	-hinge l + r	1.21.2FK1		V	1.21.3FK1		V	1.21.4FK1		V
				1.21.2EK1		V	1.21.3EK1		V	1.21.4EK1		V
			-bent anchor l	1.21.2FB1L/□□	E		1.21.3FB1L/□□	E		1.21.4FB1L/□□	E	
				1.21.2EB1L/□□	E		1.21.3EB1L/□□	E		1.21.4EB1L/□□	E	
			-bent a. standard l	1.21.2F1B1L/□□			1.21.3F1B1L/□□			1.21.4F1B1L/□□		
				1.21.2E1B1L/□□			1.21.3E1B1L/□□			1.21.4E1B1L/□□		
			-bent anchor r	1.21.2FB1R/□□	E		1.21.3FB1R/□□	E		1.21.4FB1R/□□	E	
				1.21.2EB1R/□□	E		1.21.3EB1R/□□	E		1.21.4EB1R/□□	E	
			-bent a. standard r	1.21.2F1B1R/□□			1.21.3F1B1R/□□			1.21.4F1B1R/□□		
				1.21.2E1B1R/□□			1.21.3E1B1R/□□			1.21.4E1B1R/□□		
			90° -hinge	1.21.2FK2		V	1.21.3FK2		V	1.21.4FK2		V
				1.21.2EK2		V	1.21.3EK2		V	1.21.4EK2		V
			-bent anchor	1.21.2FB2/□□	E		1.21.3FB2/□□	E		1.21.4FB2/□□	E	
				1.21.2EB2/□□	E		1.21.3EB2/□□	E		1.21.4EB2/□□	E	
			-bent anchor 90°	1.21.2F2B2/□□			1.21.3F2B2/□□			1.21.4F2B2/□□		
				1.21.2E2B2/□□			1.21.3E2B2/□□			1.21.4E2B2/□□		
		Oblique-cross	-hinge	1.21.2FK3			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				
									Anchor			Piece	
steel standard	E	VA	steel standard	E	VA	steel standard	E	VA	steel standard	E	VA		
1.21.45H0			1.21.50H0			1.21.60H0			1.21.A1H0			1	1
1.21.45F0	E	V	1.21.5F0	E	V	1.21.6F0	E	V	1.21.A1F0	E	V	1	1
1.21.45E0	E	V	1.21.5E0	E	V	1.21.6E0	E	V	1.21.A1E0	E	V	1	1
1.21.45F1	E	V	1.21.5F1	E	V	1.21.6F1	E	V	1.21.A1F1	E	V	1	1
1.21.45E1	E	V	1.21.5E1	E	V	1.21.6E1	E	V	1.21.A1E1	E	V	1	1
1.21.45F2	E	V	1.21.5F2	E	V	1.21.6F2	E	V	1.21.A1F2	E	V	1	1
1.21.45E2	E	V	1.21.5E2	E	V	1.21.6E2	E	V	1.21.A1E2	E	V	1	1
1.21.45E40			1.21.50E40			1.21.60E40			1.21.A1E40			1	1
1.21.45F41			1.21.50F41			1.21.60F41			1.21.A1F41			1	1
1.21.45F42			1.21.50F42			1.21.60F42			1.21.A1F42			1	1
1.21.45FK1		V	1.21.5FK1		V	1.21.6FK1		V	1.21.A1FK1		V	1	1
1.21.45EK1		V	1.21.5EK1		V	1.21.6EK1		V	1.21.A1EK1		V	1	1
1.21.45FB1L/□□	E		1.21.5FB1L/□□	E		1.21.6FB1L/□□	E		1.21.A1FB1L/□□	E		1	1
1.21.45EB1L/□□	E		1.21.5EB1L/□□	E		1.21.6EB1L/□□	E		1.21.A1EB1L/□□	E		1	1
1.21.45F1B1L/□□			1.21.5F1B1L/□□			1.21.6F1B1L/□□			1.21.A1F1B1L/□□			1	1
1.21.45E1B1L/□□			1.21.5E1B1L/□□			1.21.6E1B1L/□□			1.21.A1E1B1L/□□			1	1
1.21.45FB1R/□□	E		1.21.5FB1R/□□	E		1.21.6FB1R/□□	E		1.21.A1FB1R/□□	E		1	1
1.21.45EB1R/□□	E		1.21.5EB1R/□□	E		1.21.6EB1R/□□	E		1.21.A1EB1R/□□	E		1	1
1.21.45F1B1R/□□			1.21.5F1B1R/□□			1.21.6F1B1R/□□			1.21.A1F1B1R/□□			1	1
1.21.45E1B1R/□□			1.21.5E1B1R/□□			1.21.6E1B1R/□□			1.21.A1E1B1R/□□			1	1
1.21.45FK2		V	1.21.5FK2		V	1.21.6FK2		V	1.21.A1FK2		V	1	1
1.21.45EK2		V	1.21.5EK2		V	1.21.6EK2		V	1.21.A1EK2		V	1	1
1.21.45FB2/□□	E		1.21.5FB2/□□	E		1.21.6FB2/□□	E		1.21.A1FB2/□□	E		1	1
1.21.45EB2/□□	E		1.21.5EB2/□□	E		1.21.6EB2/□□	E		1.21.A1EB2/□□	E		1	1
1.21.45F2B2/□□			1.21.5F2B2/□□			1.21.6F2B2/□□			1.21.A1F2B2/□□			1	1
1.21.45E2B2/□□			1.21.5E2B2/□□			1.21.6E2B2/□□			1.21.A1E2B2/□□			1	1
1.21.45FK3			1.21.5FK3			1.21.6FK3			1.21.A1FK3			1	1
1.21.45EK3		V	1.21.5EK3		V	1.21.6EK3		V	1.21.A1EK3		V	1	1
1.21.45FK4			1.21.5FK4			1.21.6FK4			1.21.A1FK4			1	1
1.21.45EK4		V	1.21.5EK4		V	1.21.6EK4		V	1.21.A1EK4		V	1	1
									1.21.A2F5			1	1
									1.21.A2E5			1	1
			1.21.5/3F5 [2]						1.21.A3F5			1	1
			1.21.5/3E5 [2]						1.21.A3E5			1	1
									1.21.A3E2-5			1	1
									1.21.A4F5			1	1
									1.21.A4E5			1	1
1.21.45F5									1.21.A45F5			1	1
1.21.45E5									1.21.A45E5			1	1
			1.21.5F5						1.21.A5F5			1	1
			1.21.5E5						1.21.A5E5			1	1
						1.21.6F5			1.21.A6F5			1	1
						1.21.6E5			1.21.A6E5			1	1
			1.21.5/3E2-5						1.21.A3E2-5			1	1

1.21.B45		1.21.B50		1.21.B60		*Cross bushing, steel*
1.21.B45	V	1.21.B50	V	1.21.B60	V	*Cross bushing, VA*

Single parts

Anchor

Base with spring

Cross bushing

Base with setscrew

E = ground connector, VA = stainless steel 1.4305

Connector for core hole-Ø 12 mm				Connectors, complete							
				PG 20			PG 30			PG 40		
				steel standard	E	VA	steel standard	E	VA	steel standard	E	VA
		Miter	-hinge l + r	1.21.2G1		V	1.21.3G1		V	1.21.4G1		V
			-bent anchor l + r	1.21.2GB1/□□			1.21.3GB1/□□			1.21.4GB1/□□		
		90°	-hinge l + r	1.21.2G2		V	1.21.3G2		V	1.21.4G2		V
			-bent anchor l	1.21.2GB2L/□□			1.21.3GB2L/□□			1.21.4GB2L/□□		
			-bent anchor r	1.21.2GB2R/□□			1.21.3GB2R/□□			1.21.4GB2R/□□		
		Extension		1.21.2V0		V	1.21.3V0		V	1.21.4V0		V
							1.21.3/2V0		V	1.21.4/2V0		V
										1.21.4/3V0		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

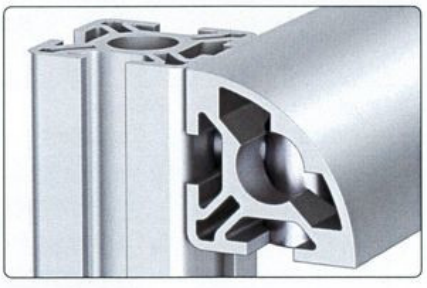
E = ground connector, VA = stainless steel 1.4305

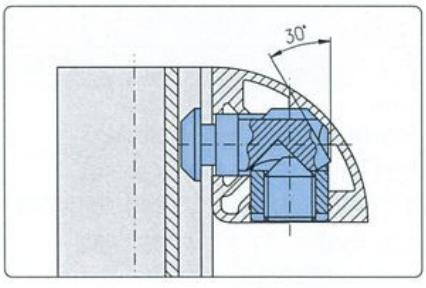
PG 45			PG 50			PG 60			Single parts					1.21.B20	1.21.B30	1.21.B40	1.21.B45	1.21.B50
steel standard	E	VA	steel standard	E	VA	steel standard	E	VA	Anchor steel standard	E	VA	Piece						
1.21.45G1		V	1.21.5G1		V	1.21.6G1		V	1.21.A1G1		V	1	2					
1.21.45GB1/□□			1.21.5GB1/□□			1.21.6GB1/□□			1.21.A1GB1/□□			1	2					
1.21.45G2		V	1.21.5G2		V	1.21.6G2		V	1.21.A1G2		V	1	2					
1.21.45GB2L/□□									1.21.A1GB2L/□□			1	2					
			1.21.5GB2L/□□			1.21.6GB2L/□□			1.21.A1GB245L/□□			1	2					
1.21.45GB2R/□□			1.21.5GB2R/□□			1.21.6GB2R/□□			1.21.A1GB2R/□□			1	2					
1.21.45V0		V	1.21.5V0		V	1.21.6V0		V	1.21.A1V0		V	1	2	-	-	-	-	-
1.21.45/2V0		V	1.21.5/2V0		V	1.21.6/2V0		V	1.21.A1V0		V	1	1	1	-	-	-	-
1.21.45/3V0		V	1.21.5/3V0		V	1.21.6/3V0		V	1.21.A1V0		V	1	1	-	1	-	-	-
1.21.45/4V0		V	1.21.5/4V0		V	1.21.6/4V0		V	1.21.A1V0		V	1	1	-	-	1	-	-
			1.21.5/45V0		V	1.21.6/45V0		V	1.21.A1V0		V	1	1	-	-	-	1	-
						1.21.6/5V0		V	1.21.A1V0		V	1	1	-	-	-	-	1
1.21.45S1M6/11			1.21.5S1M6/11			1.21.6S1M6/11			1.21.A1SM6/11			1	1					
1.21.45S1M8/7			1.21.50S1M8/7			1.21.60S1M8/7			1.21.A1SM8/7			1	1					
1.21.45S1M8/11		V	1.21.5S1M8/11		V	1.21.6S1M8/11		V	1.21.A1SM8/11		V	1	1					
1.21.45S1M8/40			1.21.5S1M8/40			1.21.6S1M8/40			1.21.A1SM8/40			1	1					
									1.21.A2SM8/11			1	1					
									1.21.A3SM8/7			1	1					
									1.21.A3SM8/11			1	1					
									1.21.A4SM8/7			1	1					
									1.21.A4SM8/11			1	1					
1.21.45S5M8/11									1.21.A45SM8/11			1	1					
			1.21.5S5M8/11						1.21.A5SM8/11			1	1					
						1.21.6S5M8/11			1.21.A6SM8/11			1	1					
									1.21.A3SM8/11			1	1					
									1.21.A5SM8/11			1	1					
									1.21.A2SM8/11			1	1					
			1.21.5/3S5M8/11						1.21.A3SM8/11			1	1					

1.21.B45		1.21.B50		1.21.B60		*Cross bushing, steel*
1.21.B45	V	1.21.B50	V	1.21.B60	V	*Cross bushing, VA*

E = ground connector, VA = stainless steel 1.4305

Parallel connector
for profile 30×30, soft





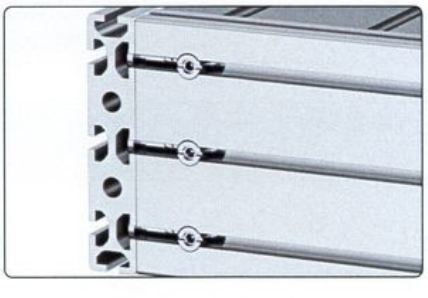
Application
Special anchor for parallel connector for profile 30×30, 2 F-slots, soft

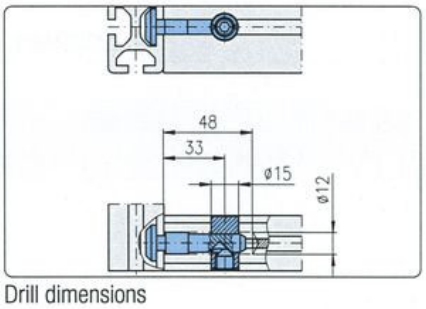
Description	Weight	Article-No.
Connector, parallel	40 g	1.21.31E5
Connector, parallel	33 g	1.21.31F5

Single parts

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

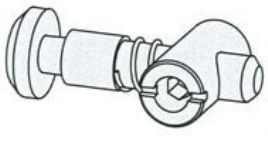
Universal connector
for profile 30×150





Drill dimensions

Application
Universal connector for connection of two profiles 30×150
Alternative connection possibility
☛ *2.30, ST-Connector*

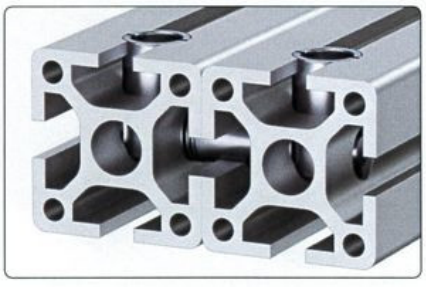


Description	Weight	Article-No.
Connector, universal	68 g	1.21.31E0

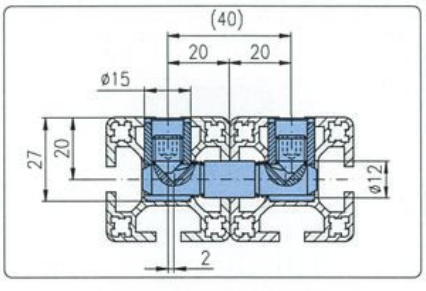
Single parts

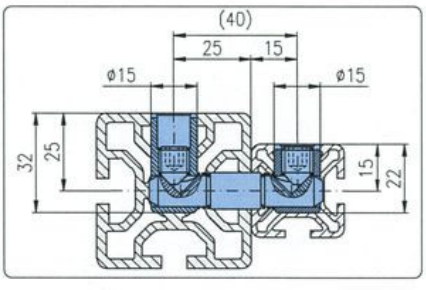
Description	Weight	Article-No.
Anchor, incl. spring	41 g	1.21.A1E0
Cross bushing, incl. setscrew	27 g	1.21.B31

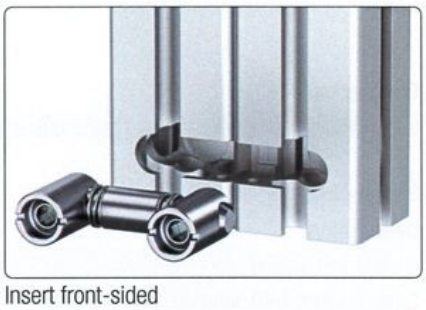
Extension / parallel connector



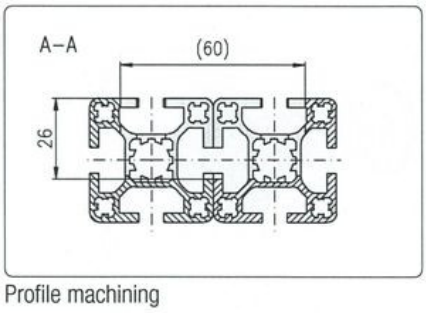
Application
- Parallel connections with core hole distance of 40 mm
- Profile extensions



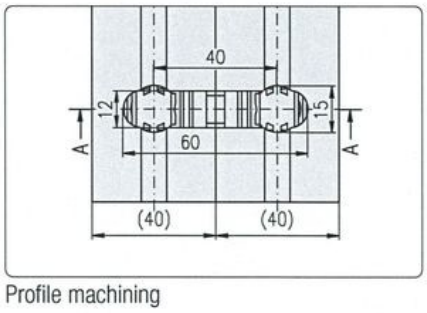




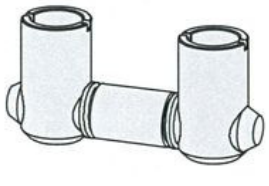
Insert front-sided



Profile machining



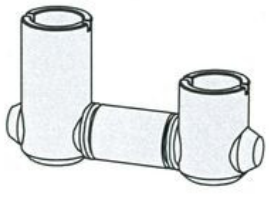
Profile machining



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

Single parts

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

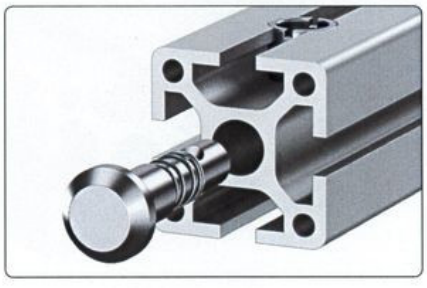


Description	Weight	Article-No.
Connector extension / parallel	76 g	1.21.50-30V040

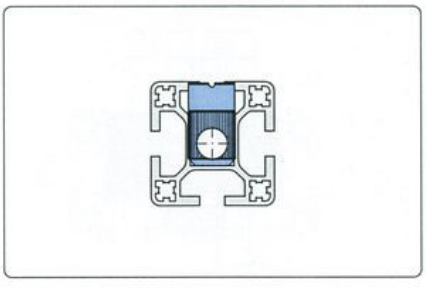
Single parts

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

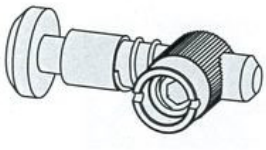
Universal connector
with knurled cross bushing



Application
Fixable cross bushing
☛ *Press in device, 1.98*



Comments
The knurled cross bushing is suitable for all connectors with the cross bushing 1.21.B40
☛ *Connector components, 1.2C*

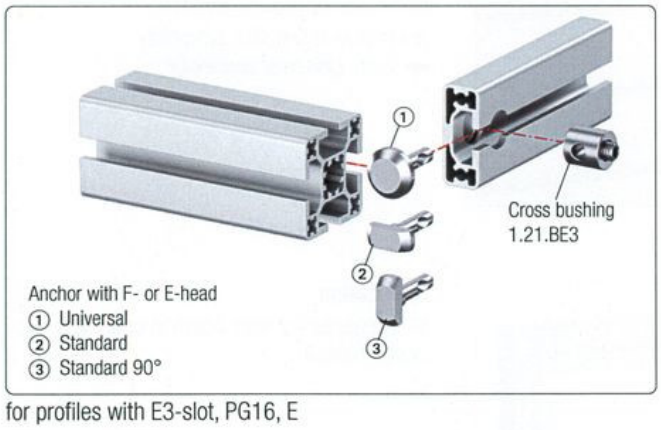


Description	Weight	Article-No.
Connector, universal with knurled cross bushing	60 g	1.21.40RE0

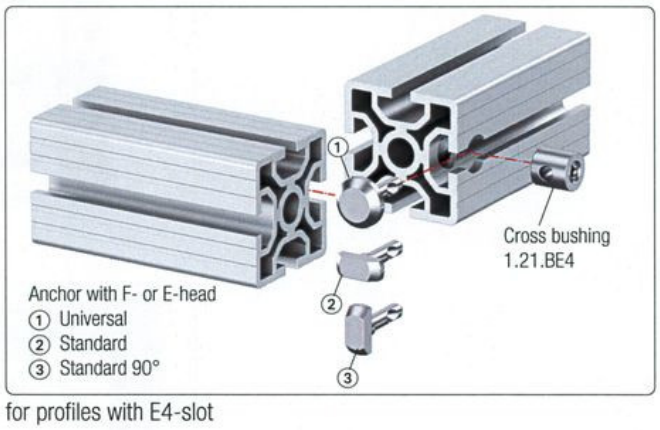
Single parts

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

SE-Connector



for profiles with E3-slot, PG16, E



for profiles with E4-slot

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

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

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

Connection Profile PG16, E3-slot	to F/E-slot	Connection Profile with E4-slot	to F/E-slot	Connector	Article-No. for SE-connector mounting in E3-slot steel standard	E	VA	mounting in E4-slot steel standard	E	VA
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 mounting in E3-slot steel standard	E	VA	mounting in E4-slot steel standard	E	VA	Single parts Anchor steel standard	E	VA	Piece	
		Universal	1.21.SE3F0			1.21.SE4F0			1.21.ASEF0			1	1
			1.21.SE3E0			1.21.SE4E0			1.21.ASEE0			1	1
		Standard	1.21.SE3F1			1.21.SE4F1			1.21.ASEF1			1	1
			1.21.SE3E1			1.21.SE4E1			1.21.ASEE1			1	1
		90°	1.21.SE3F2			1.21.SE4F2			1.21.ASEF2			1	1
			1.21.SE3E2			1.21.SE4E2			1.21.ASEE2			1	1
		Cross bushing	1.21.BE3			1.21.BE4							

E = ground-connector, VA = stainless steel 1.4305

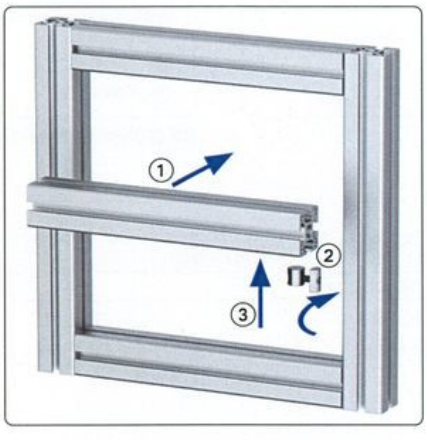
ST-Connector

Application

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

Alternative connection possibility

☛ *2.26, Universal connector*

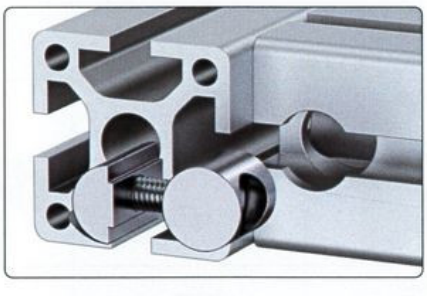


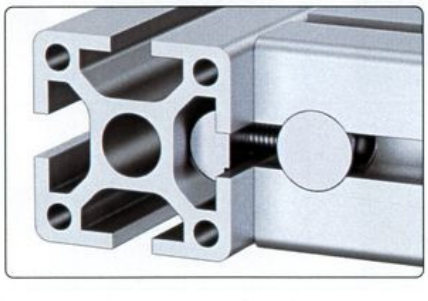
Application

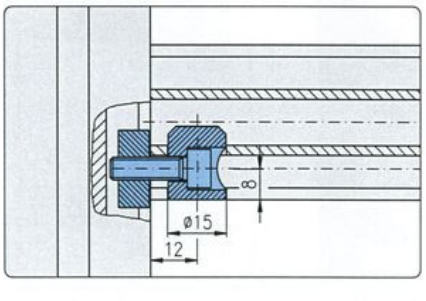
ST-Connector for later insertion of profiles into closed frames

Assembly

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

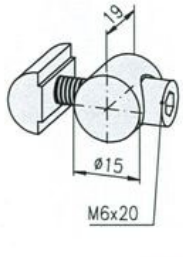






Technical data

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



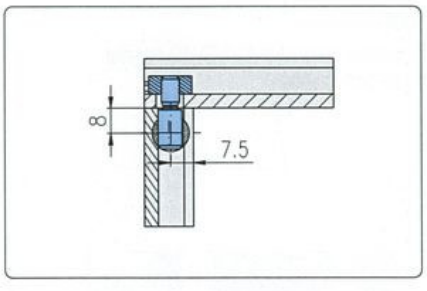
H F E

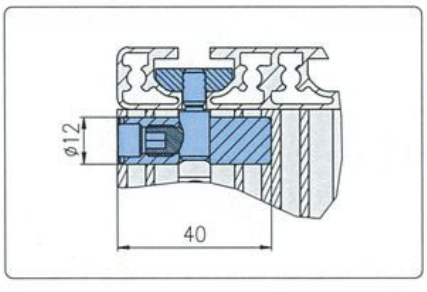
Connector complete

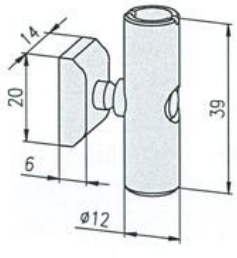
Description	G	Weight	Article-No.
ST-Connector	M6	32.0 g	1.21.STEM620
Single parts			
ST-Cross bushing	M6	16.7 g	1.21.STBM6
T-Nut for subsequent insertion into E-slots	M6	10.0 g	1.32.4EM6
Cap head screw DIN 912	M6×20	5.3 g	0.63.D00912.06020

ST-Connector
with anchor, screw-type

Application
ST-Connection for PG 16, E3-slot
☛ *Eco-Slide, 1.67*





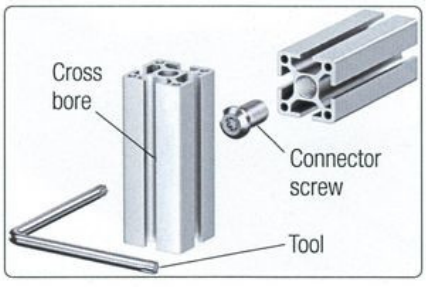


H F E

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

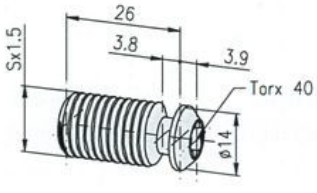
Connector screw
self-cutting



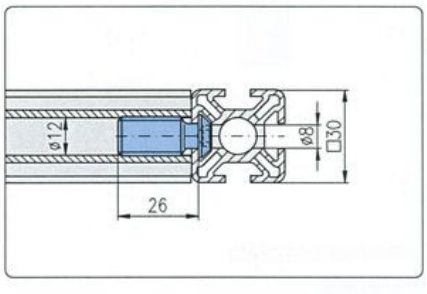
Application
Simple connections with profiles using a 12 mm core hole

Technical data
material: steel 8.8
surface: galvanised

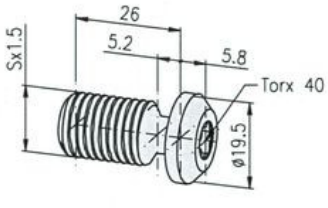
Tool
Tx screw driver for Torx® 40 screws
1.98.T40.090090



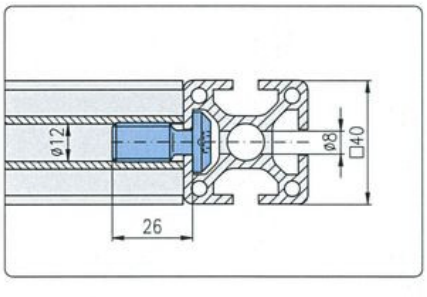
H F E



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

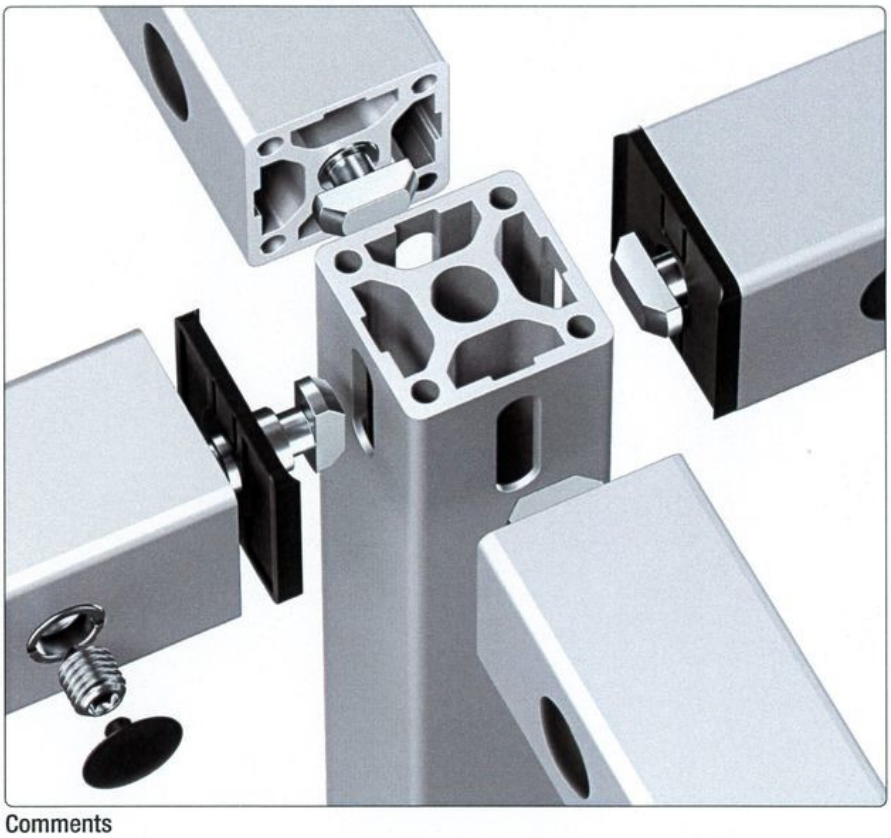


H F E



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

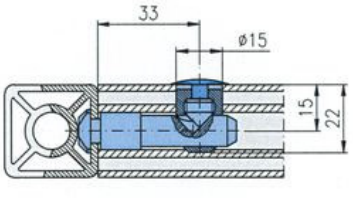
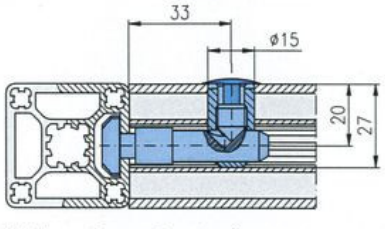
Connection of 0-slot profiles



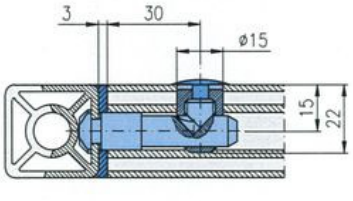
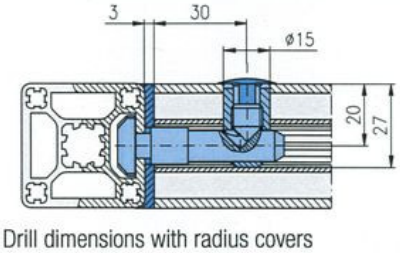
Comments
Connector ☛ *1.2A*

Connector - drill dimensions

without radius covers

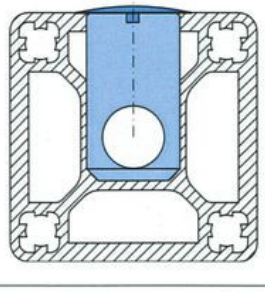
PG 30	PG 40
 Drill dimensions without radius covers	 Drill dimensions without radius covers

with radius covers
☛ *1.43*

 Drill dimensions with radius covers	 Drill dimensions with radius covers

Cover plug

for connector cross bushings
☛ *1.42*

PG 30	PG 40
	

Specification of milling patterns for closed profiles

VB□□□ / □□□□-□□.□	**Key**
VB□□□ / □□□□-□□.□	Shortcut for "**V**erbinder-**B**ohrung"
VB□□□ / □□□□-□□.□	Specification of the milling pattern [1]
VB□□□ / □□□□-□□.□	Number of pattern elements [2]
VB□□□ / □□□□-□□.□	Direction of the profile side ☛ *1.55*
VB□□□ / □□□□-□□.□	Distance of the reference point to the left end of the profile [mm]
VB□□□ / □□□□-□□.□	Angle of the connection (in case of VB3 or VB4)

[1] 1 = "T" shape milling pattern for standard connector (Standard) ☛ *2.36*
2 = upside-down "T" shape milling pattern for standard connector ☛ *2.37*
5 = elongated hole for connection
- with standard connectors ☛ *2.38*
- with T-Nuts ☛ *2.39*

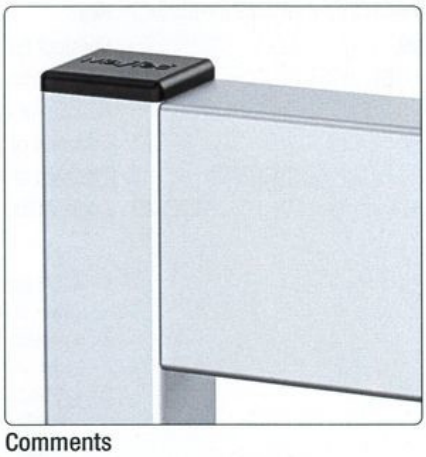
6 = half circle for miter 3-way connection ☛ *2.40*

[2] Specification with "A", "B", "C", same as for the amount of cross bushing bores ☛ *1.54*

Mounting variation

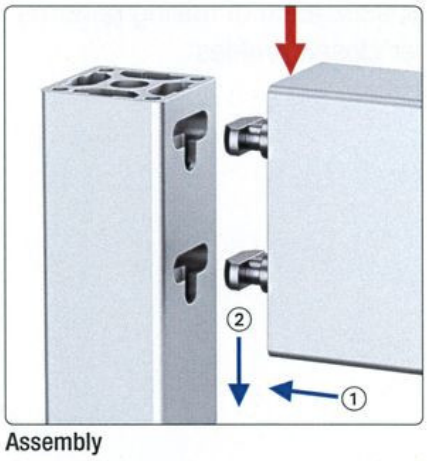
for profiles with 1 or more connectors, if the profile cannot be rotated

for high sliding load



Comments

Position of assembly: profiles flush on the top

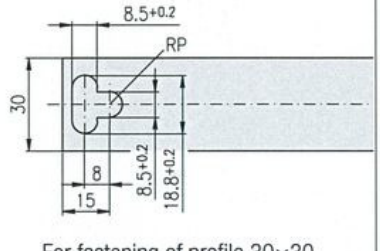


Assembly

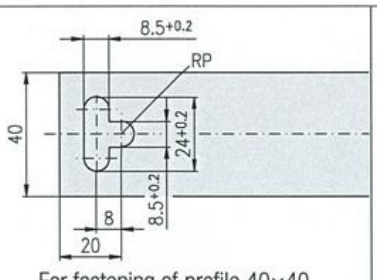
① insert connector
② push profile to the bottom

Fabrication measurements

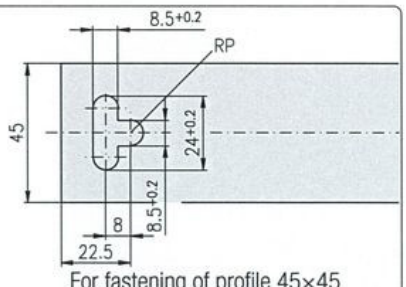
PG 30	PG 40	PG 45



For fastening of profile 30×30

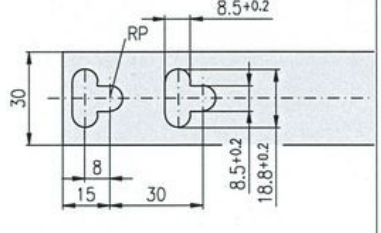


For fastening of profile 40×40

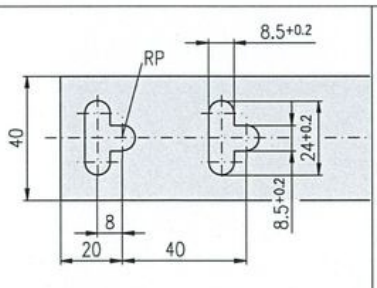


For fastening of profile 45×45

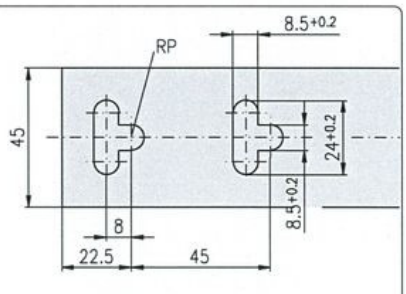
Machining data VB1A□/□□□□



For fastening of profile 30×60

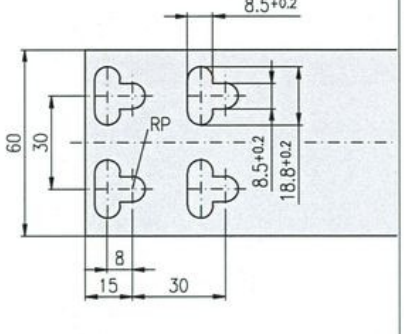


For fastening of profile 40×80

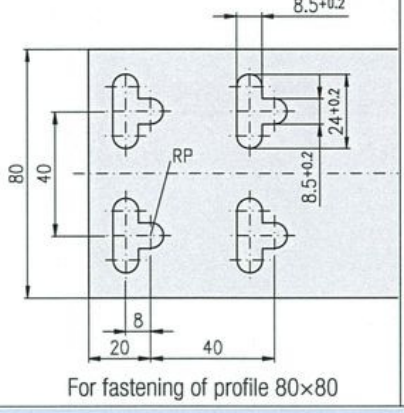


For fastening of profile 45×90

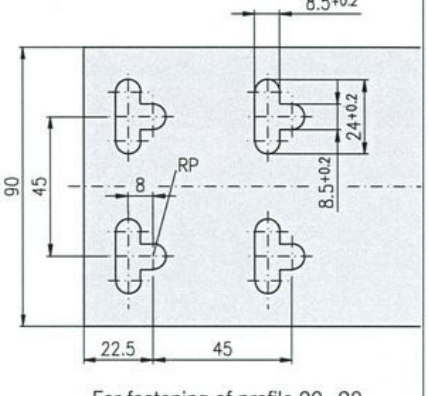
Machining data VB1B□/□□□□



For fastening of profile 60×60



For fastening of profile 80×80



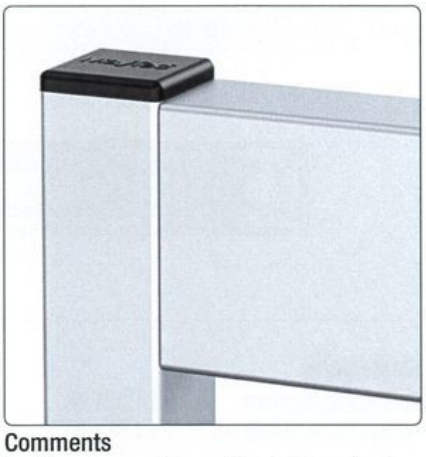
For fastening of profile 90×90

Machining data VB1D□/□□□□

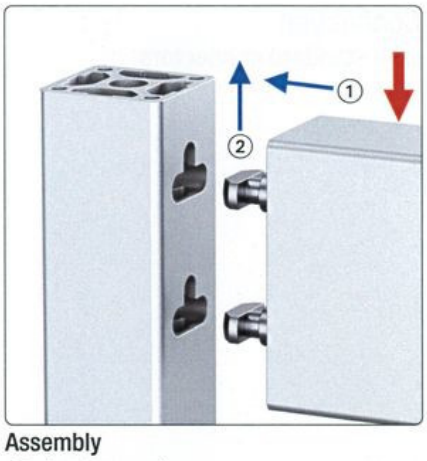
RP = Reference point; Definition of machining data ☛ *2.35*

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

for high flexure load



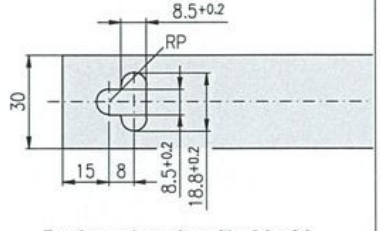
Comments
Position of assembly: profiles flush on the top



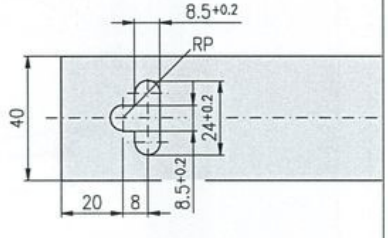
Assembly
① insert connector
② push profile to the top

Fabrication measurements

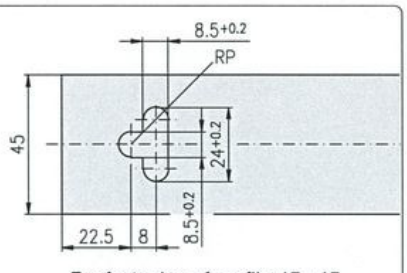
PG 30	PG 40	PG 45



For fastening of profile 30×30

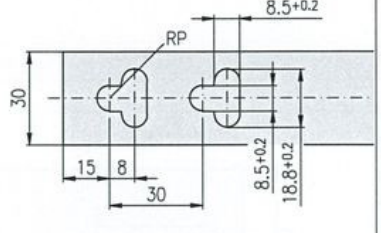


For fastening of profile 40×40

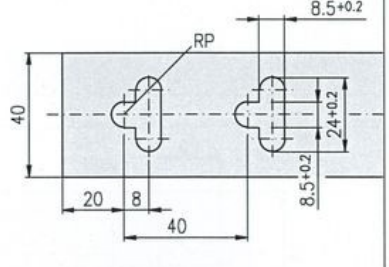


For fastening of profile 45×45

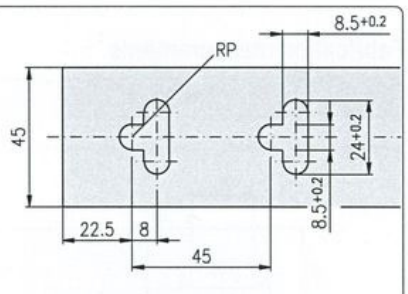
Machining data VB2A□/□□□□



For fastening of profile 30×60

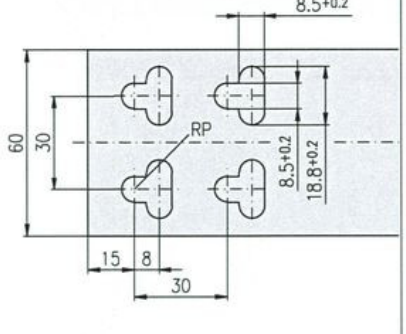


For fastening of profile 40×80

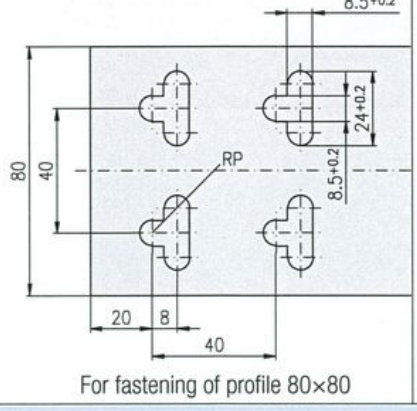


For fastening of profile 45×90

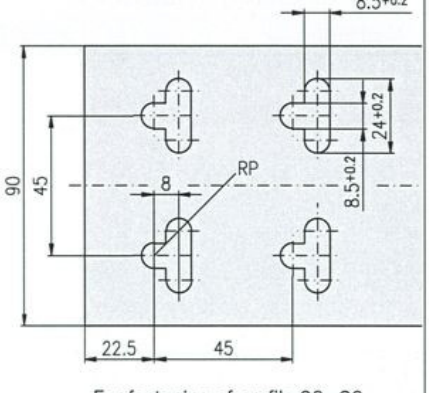
Machining data VB2B□/□□□□



For fastening of profile 60×60



For fastening of profile 80×80

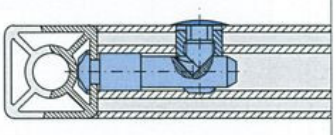
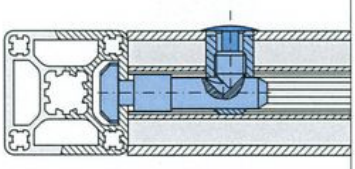


For fastening of profile 90×90

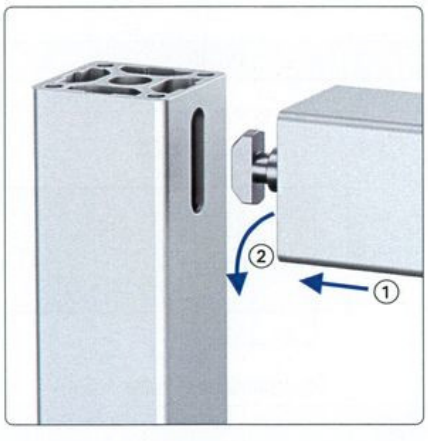
Machining data VB2D□/□□□□

RP = Reference point; Definition of machining data ☛ *2.35*

Connection
with standard connectors

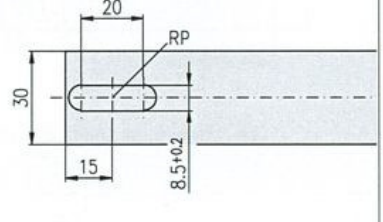
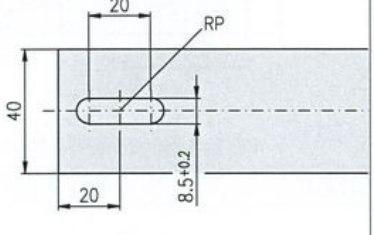
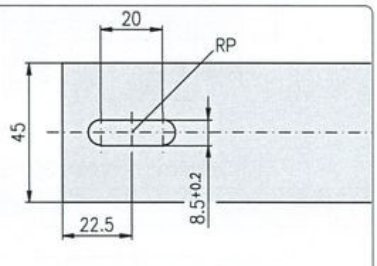
PG 30	PG 40
	
Single parts	**Single parts**
Connector, standard 1.21.3F1 (V)	Connector, standard 1.21.4E1 (V)
Connector, standard 90° 1.21.3F2 (V)	Connector, standard 90° 1.21.4E2 (V)

Mounting variation
for profiles with 1 connector



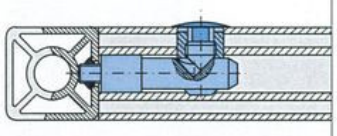
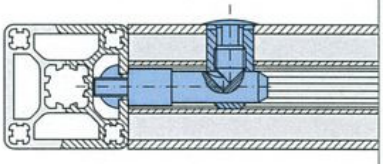
Assembly
① insert connector
② turn profile

Fabrication measurements

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

RP = Reference point; Definition of machining data ☛ *2.35*

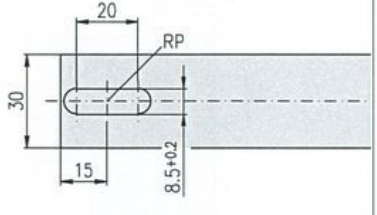
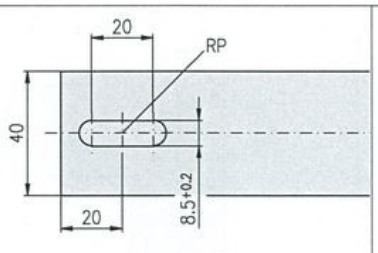
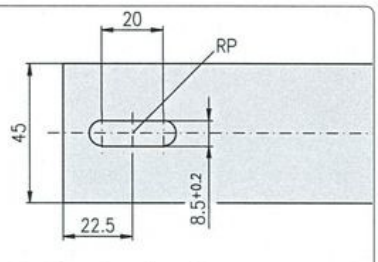
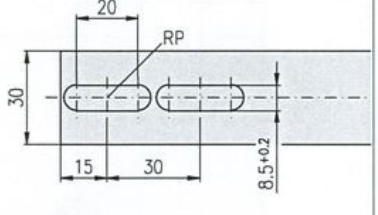
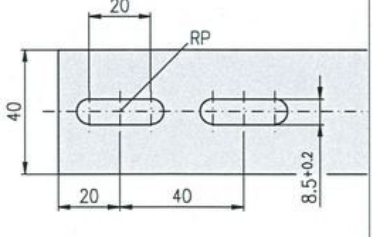
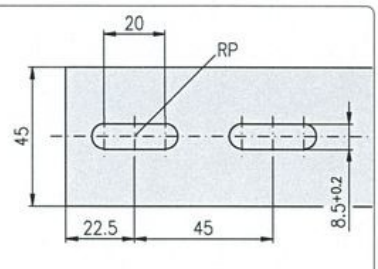
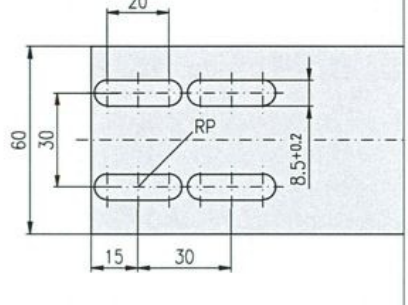
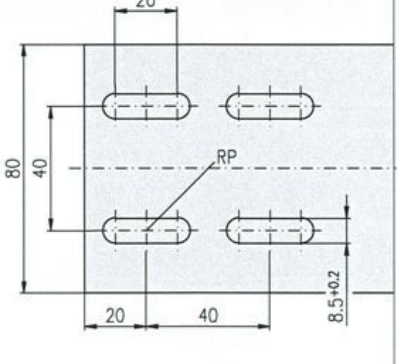
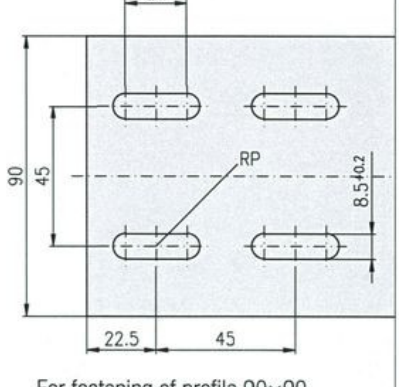
Connection
with screw-type connectors

PG 30	PG 40
	

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

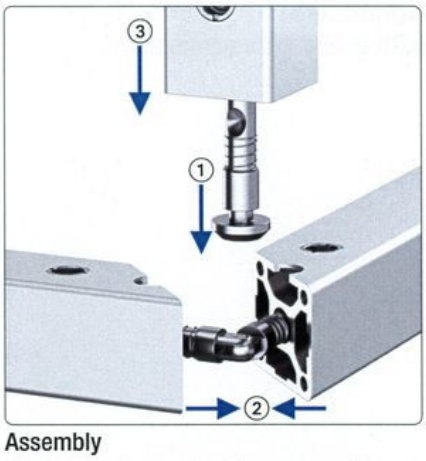
Single parts
- Screw-type connector 1.21.4S1M8/11 (V)
- T-Nut for subsequent insertion, with spring, E 1.32.4EM8 (V)

Fabrication measurements

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

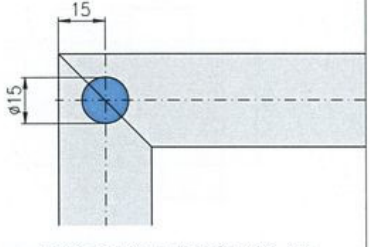
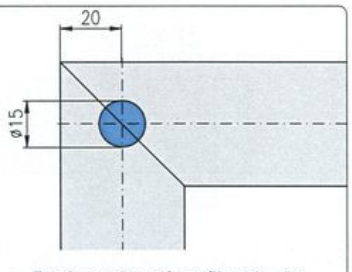
RP = Reference point; Definition of machining data ☛ *2.35*

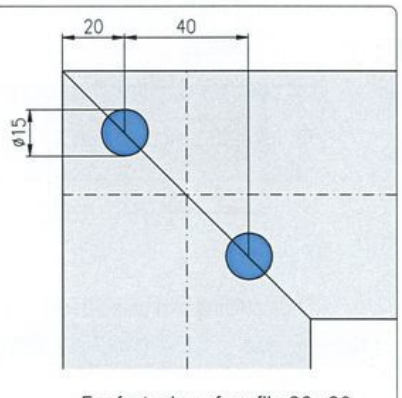
Assembly variation
for 3-way connection with miter connectors



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

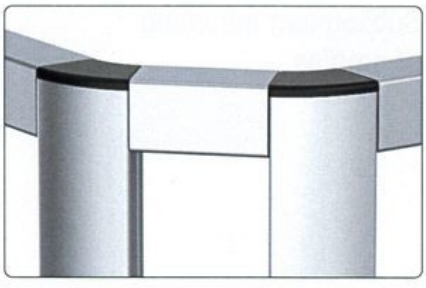
Fabrication measurements

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

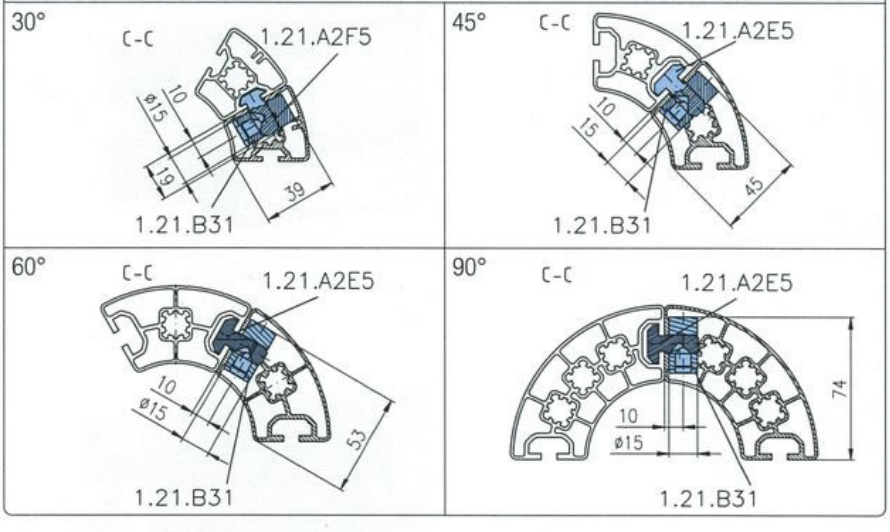
	 For fastening of profile 80×80
Machining data VB6B□/□□□□-□□.□	

RP = Reference point; Definition of machining data ☛ *2.35*

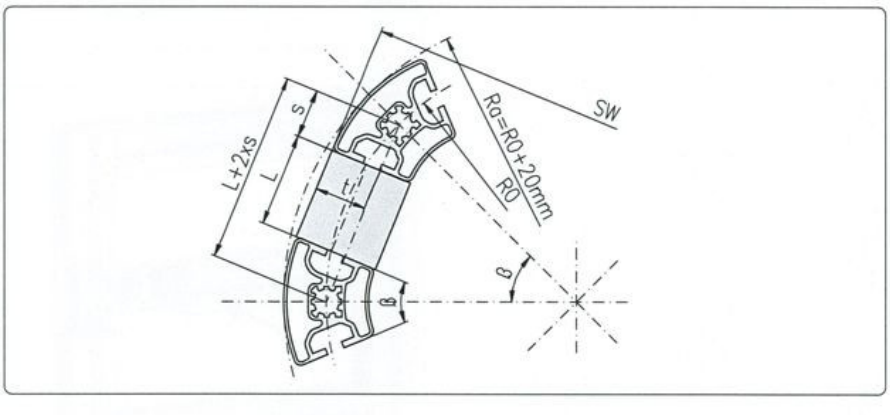
Connection of profiles 40, round



Drill dimensions for profiles 40, round



Calculation formulas for polygons

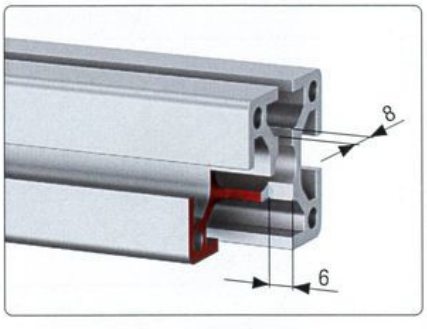


known	searched	Profile 40, round 30° (β = 30°)	Profile 40, round 45° (β = 45°)	Profile 40, round 60° (β = 60°)
		t = 22.04 s = 15.53	t = 24.57 s = 22.96	t = 28.04 s = 30.00
R_0	L =	$R_0 \times 0{,}51764 - 31{,}06$	$R_0 \times 0{,}76537 - 45{,}92$	$R_0 - 60$
R_a	L =	$(R_a - 20) \times 0{,}51764 - 31{,}06$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

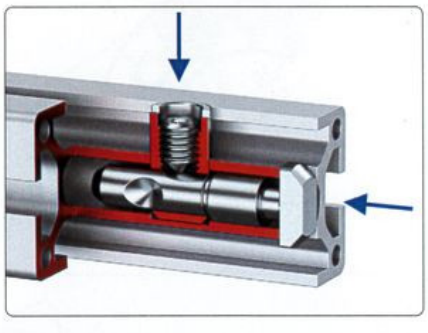
Subsequent mounting of profiles

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

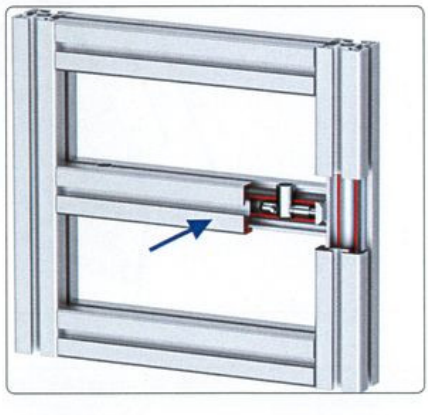
For the subsequent mounting of the profile:



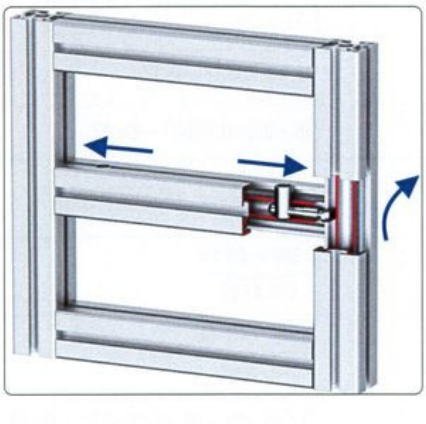
1. Mill on both ends a slot size of 6×8 mm.



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



3. Mount profile.

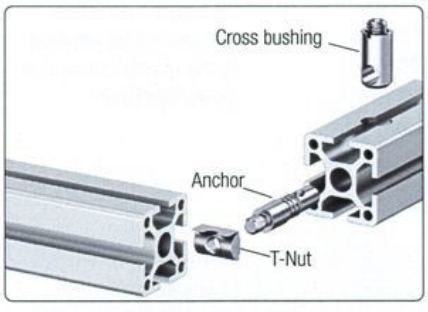


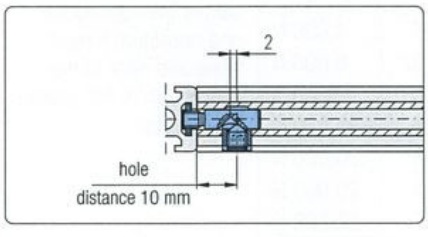
4. Loosen setscrew.
   Due to the compressing spring the anchor is pushed into the slot.
   Turn anchor by 90° with screw driver.
   Fasten setscrew.

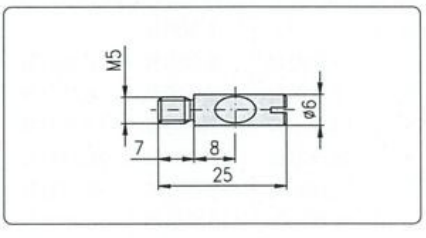
Connection of MayTec with other profile systems

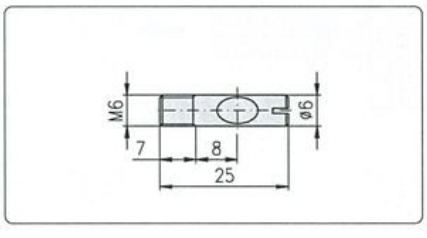
MayTec profiles can easily be combined with other profile systems.

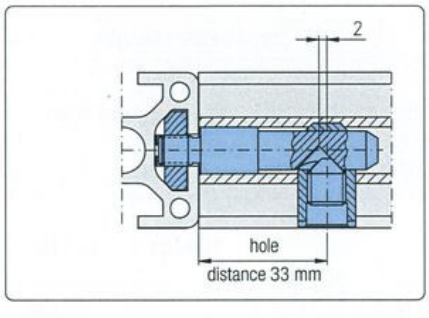
With the MayTec Screw-type connector and the T-Nut of the other profile system

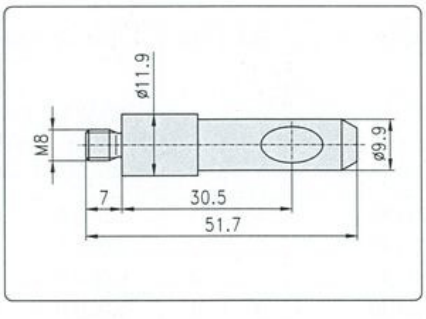


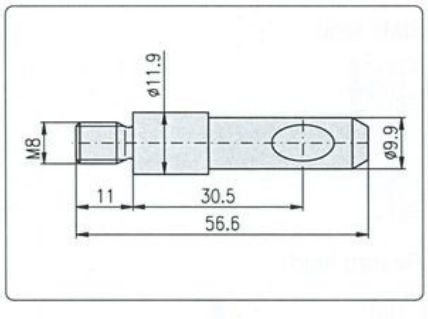


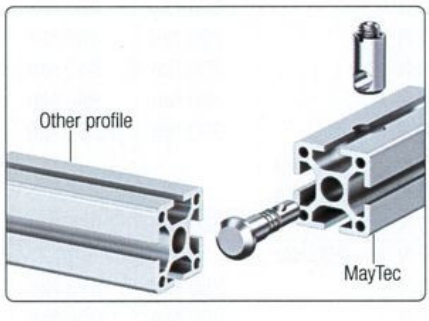


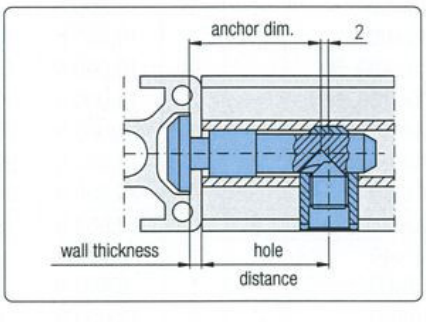












With the MayTec Standard-connector two points have to be considered:

1. Anchor head-form and size

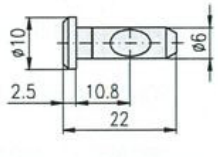
The MayTec system provides 3 anchor head sizes. If any of the sizes don't fit into the slots of other profile systems, the anchor head can be made to fit as required.

2. Hole distance

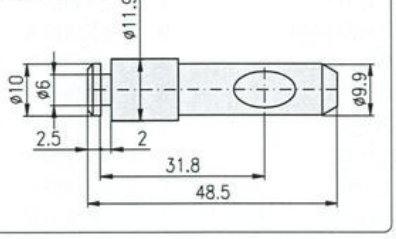
During the machining of the cross bore the hole distance has to match the wall thickness of the profile.

hole distance =
anchor dim. - wall thickness + 2 mm

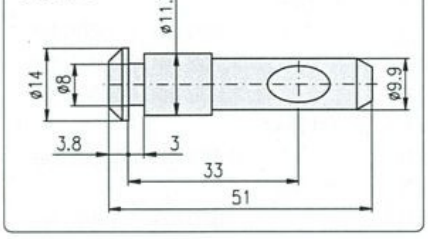
Form H



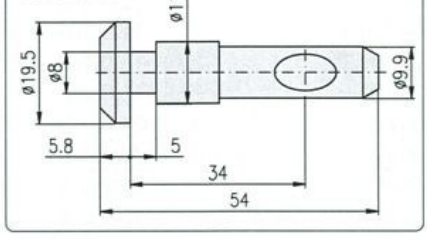
Form H



Form F



Form E

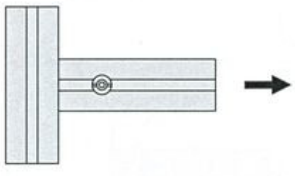


Torque tightening values for connector setscrew

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

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

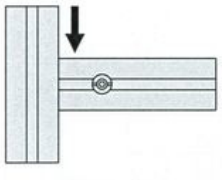
Tension load



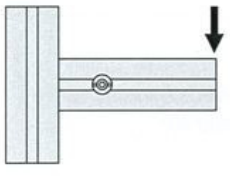
PG	Slot	max. Tensile strength Connector Standard	Universal	Square head	T-Nut	
20	H	-	1,500 N	-	M4	4,000 N
	F	5,000 N	6,000 N	8,000 N	M8	8,000 N
30	F	5,000 N	6,000 N	8,000 N	M8	8,000 N
40	E	10,000 N	12,000 N	12,000 N	M8	12,000 N
45	E	15,000 N	18,000 N	20,000 N	M8	20,000 N
50	E	15,000 N	18,000 N	20,000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

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

Slide load



Flexure load

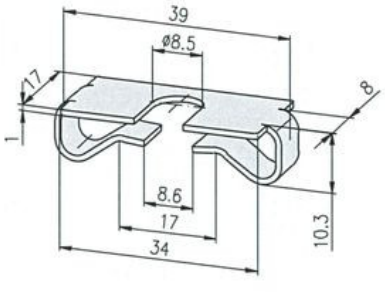


PG	Profile	Slot	Pcs	max. Slide strength		max. Flexure strength Connector		
				Standard, Universal, Square head	E-connector *(Standard, Universal)*	Standard, Universal, Square head □	▭	▯
20	20×20	H	1	1,500 N	-	50 Nm		
	20×40		2	3,000 N	-		100 Nm	150 Nm
	40×40		4	6,000 N	-	300 Nm		
	20×30	F	1	5,000 N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

The listed values are valid for all light and heavy profiles

Anti-twist devices

Technical data
material: steel
surface: galvanised



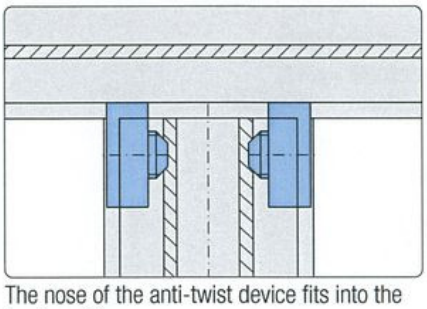
H F E

Description	Weight	Article-No.
Anti-twist device for connector	11 g	1.29.11240

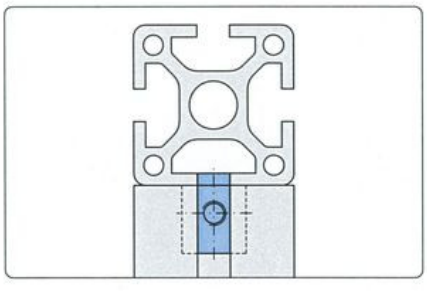
2

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.

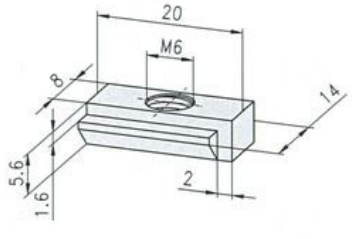


Technical data

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

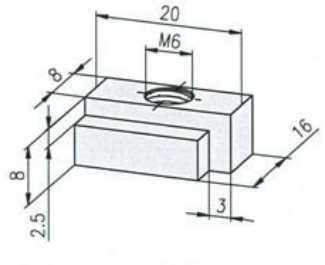
Fastening elements

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



H F E

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

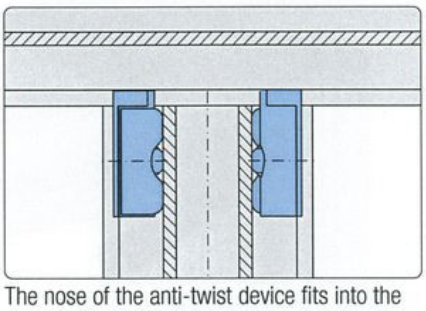


H F E

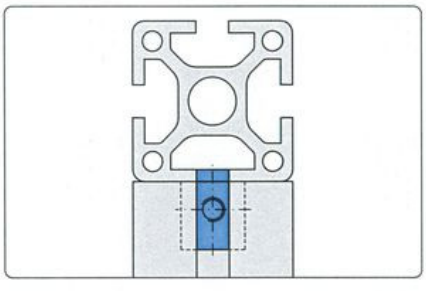
Description	G	$M_{A, max}$	Weight	Article-No.
Anti-twist device E	M6	10 Nm	14 g	1.29.321.EM6

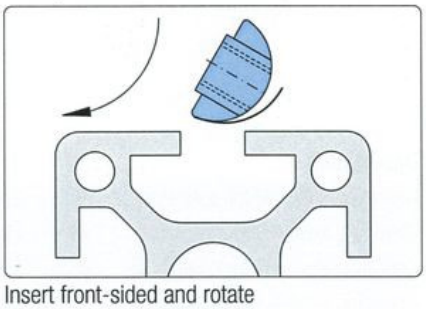
Anti-twist devices
for subsequent insertion

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.

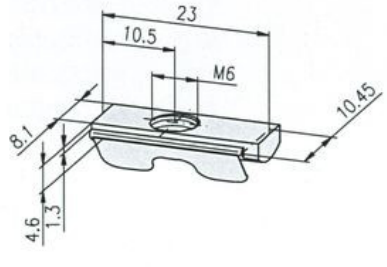




Insert front-sided and rotate

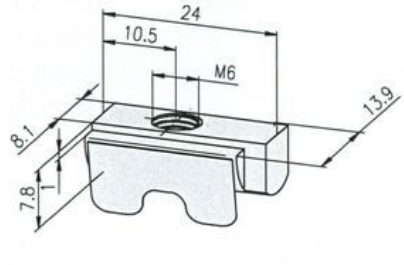
Technical data
material:	steel
surface:	galvanised
max. moment of torque:	$M_{A, max}$

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



H F E

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



H F E

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

Clamping levers

Clamping lever for drill jigs

Clamping lever for connector

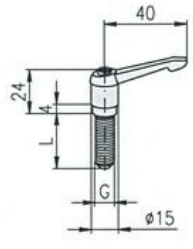
Application

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

Technical data

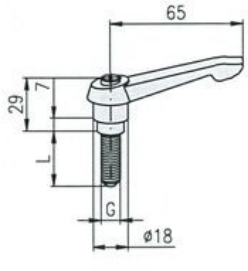
clamping handle:	PA-glass-fiber reinf.
clamping lever:	with ratchet lever handle
annular gear:	die casted zinc
thread:	steel

Clamping levers 40
for connector



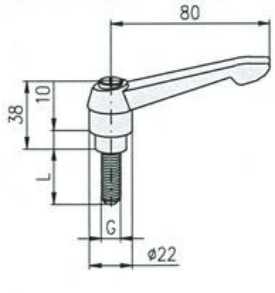
Description	G	L	Weight	Article-No.
Clamping lever 40 for connector	M6	20	17 g	1.29.500620
Clamping lever 40 for connector	M8	20	21 g	1.29.500820
Clamping lever 40 for connector	M10	20	24 g	1.29.501020
Clamping lever 40 for connector	M10	30	29 g	1.29.501030

Clamping levers 65
for connector



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

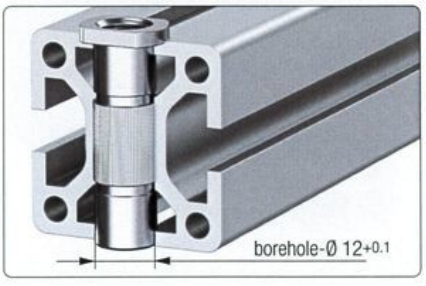
Clamping levers 80
for connector



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

Press-fit threaded inserts

for screw connections across the profile

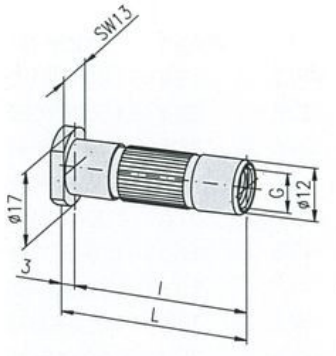


Application

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

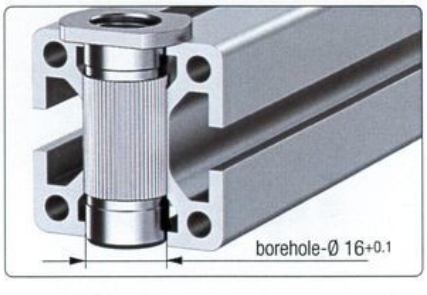
Technical data

material: steel
surface: galvanised



16 20 30 40 45 50 60

Description	G	L	l	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

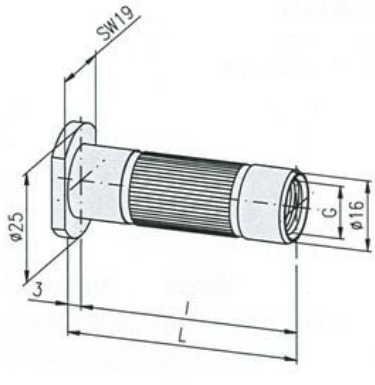


Application

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

1.3 Fastening elements

Threaded plates
☛ 3.04

Threaded plates
for subs. insertion
☛ 3.05

Threaded plates
heavy
☛ 3.06

T-Nuts
☛ 3.07

T-Nuts
for subs. insertion
☛ 3.08 - 3.10

Spring-nuts
front-sided insertion
☛ 3.11

T-slot nuts
☛ 3.12

Rhomboid T-slot nuts
with self-locking
☛ 3.13

T-Bolts
front-sided insertion
☛ 3.14

Threaded inserts
☛ 3.15 - 3.16

Press-fit
threaded inserts
☛ 3.17 - 3.18

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

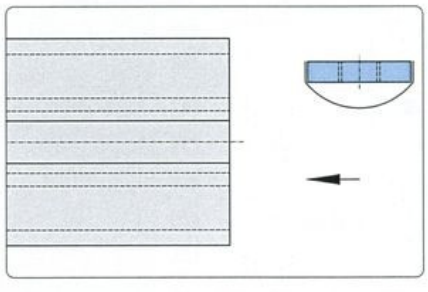
VA = stainless steel 1.4305

3

Threaded plates

Fixed into position with leaf spring

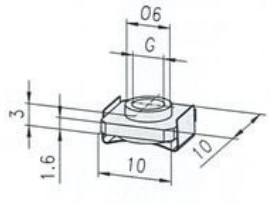
Application
Fastening element for screw-type connections



Assembly
Insert from end

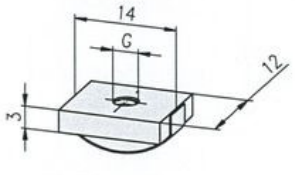
Technical data

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



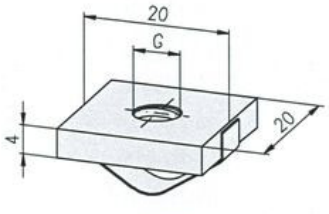
H F E

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



H F E

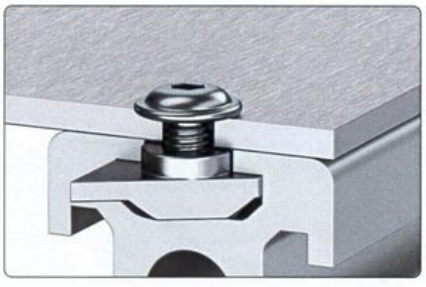
Description	G	$M_{A, max}$	Weight	Article-No.
Threaded plate F	M3	1.3 Nm	3.9 g	1.31.FM3
Threaded plate F	M4	3.0 Nm	3.7 g	1.31.FM4
Threaded plate F	M5	5.0 Nm	3.6 g	1.31.FM5
Threaded plate F	M6	7.0 Nm	3.3 g	1.31.FM6



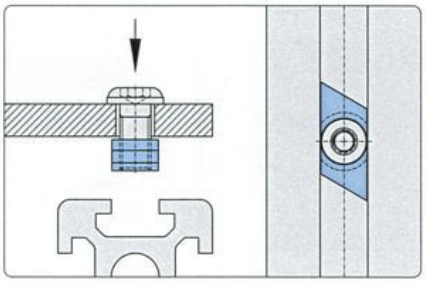
H F E

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

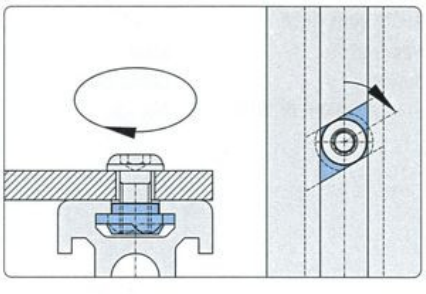
Threaded plates
for subsequent insertion



Application
Fastening element for screw-type connections



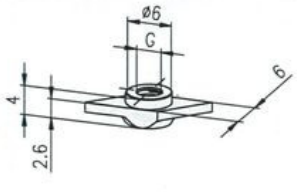
Assembly
Insert frontally



turn 60°

Technical data

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

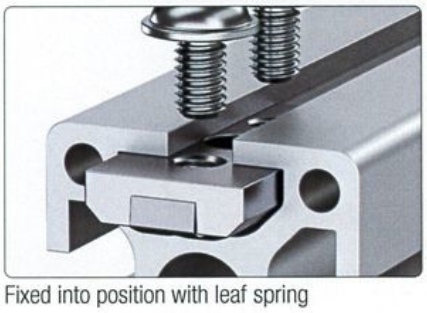


H F E

3

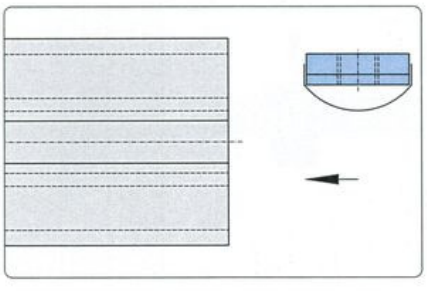
Description	G	$M_{A, max}$	Weight	Article-No.
Threaded plate for subsequent insertion H	M3	1.3 Nm	0.90 g	1.31.4HM3
Threaded plate for subsequent insertion H	M4	2.0 Nm	0.85 g	1.31.4HM4
Threaded plate for subsequent insertion H	M5	2.0 Nm	0.80 g	1.31.4HM5

Threaded plates
heavy



Fixed into position with leaf spring

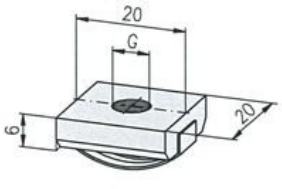
Application
Fastening element for
- screw-type connections
- hinges, heavy, type 20, 21, 22, 23, 31



Assembly
Insert from end

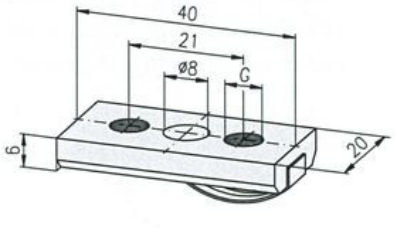
Technical data

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



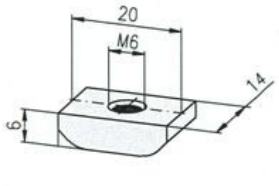
H F E

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



H F E

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

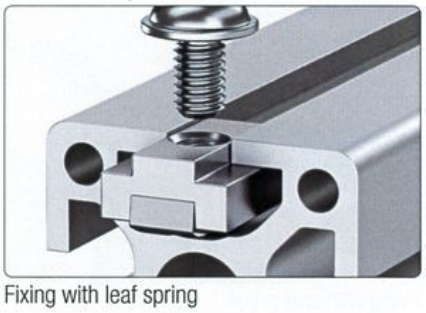


H F E

Application
Fastening element for ST-Connector with anchor, screw-type ☛ *1.2D*
Application sample ☛ *Eco-Slide 1.67*

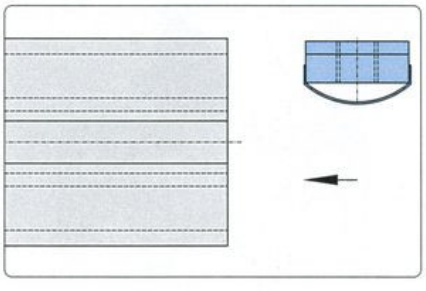
Description	G	$M_{A, max}$	Weight	Article-No.
Threaded plate, heavy E	M6	10.0 Nm	12.4 g	1.31.7EM6

T-Nuts
with spring



Fixing with leaf spring

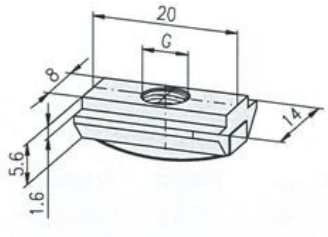
Application
Fastening element for screw-type connections



Assembly
Insert from end

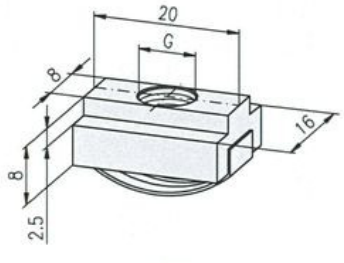
Technical data

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



H F E

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

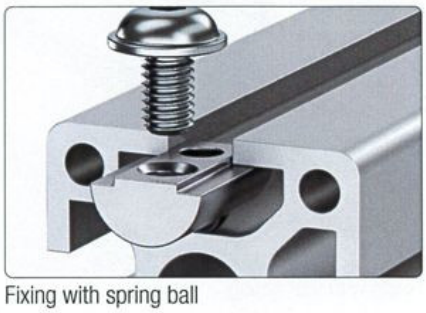


H F E

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

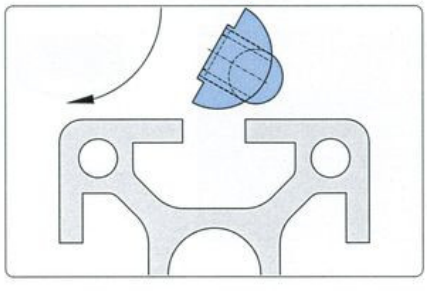
3

T-Nuts
for subsequent insertion, with spring ball



Fixing with spring ball

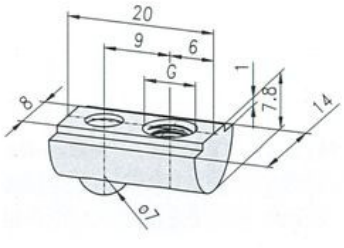
Application
Fastening element for screw-type connections



Assembly
Insert front-sided and rotate

Technical data

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



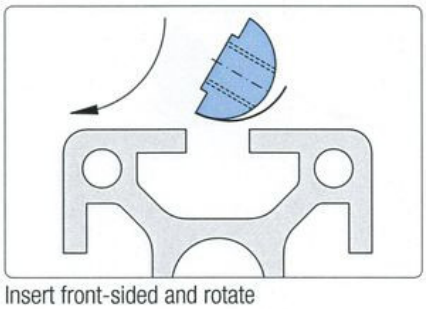
H F E

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

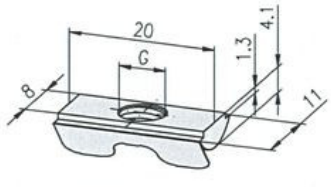


Insert front-sided and rotate

Technical data
Design steel:
- material: steel
- surface: galvanised

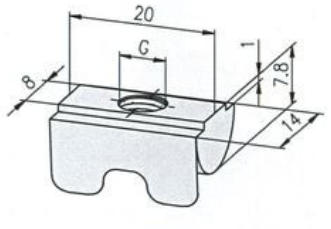
Design stainless:
- material: stainless steel 1.4305
- surface: pickled and passivated

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



H F E

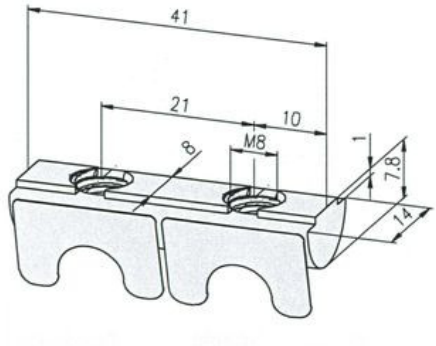
	Description	G	Design	$M_{A, max}$	Weight	Article-No.
	T-Nut for subs. ins., w. spring F	M3	steel	1.3 Nm	5.0 g	1.32.4FM3
	T-Nut for subs. ins., w. spring F	M4	steel	3.0 Nm	4.9 g	1.32.4FM4
	T-Nut for subs. ins., w. spring F	M5	steel	5.0 Nm	4.6 g	1.32.4FM5
	T-Nut for subs. ins., w. spring F	M6	steel	10.0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



H F E

	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
C R	T-Nut for subs. ins., w. spring E	M4	stainless	3.0 Nm	10.0 g	1.32.4EM4V
C R	T-Nut for subs. ins., w. spring E	M5	stainless	5.0 Nm	10.0 g	1.32.4EM5V
C R	T-Nut for subs. ins., w. spring E	M6	stainless	10.0 Nm	10.0 g	1.32.4EM6V
C R	T-Nut for subs. ins., w. spring E	M8	stainless	26.0 Nm	9.0 g	1.32.4EM8V

3



H F E

Fixing with leaf spring

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

Technical data

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

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

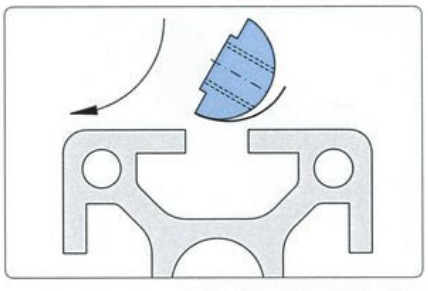
T-Nuts
for subsequent insertion, with spring

Fixing with leaf spring

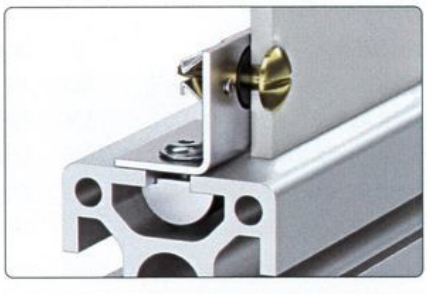
Application
Fastening element for screw-type connections

Technical data

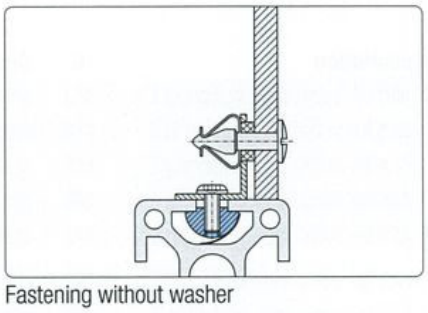
material:	steel
surface:	galvanised
max. moment of torque:	$M_{A, max}$



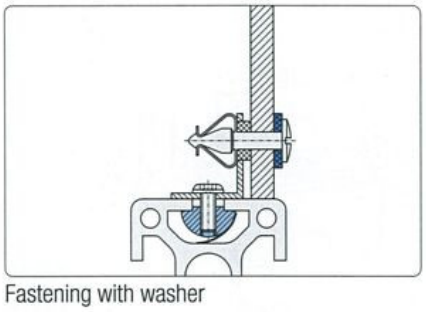
Assembly
Insert front-sided and rotate



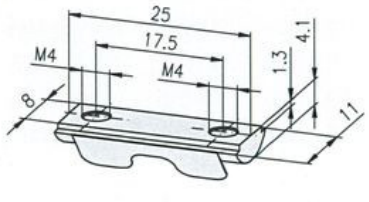
Application
Fastening element for mounting angle, quick lock ☛ *6.33*



Fastening without washer

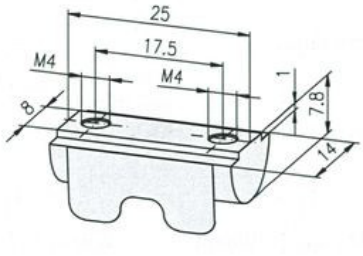


Fastening with washer



H F E

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



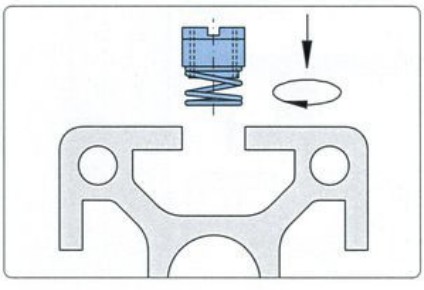
H F E

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

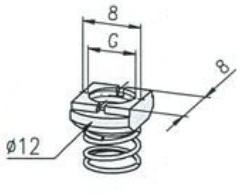
Fixing with compressing spring

Application
Fastening element for screw-type connections
Applicable for small loads such as:
- enclosures
- electric switches



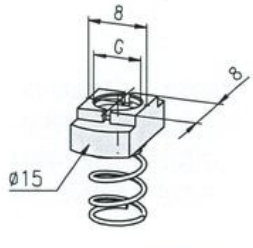
Assembly
Insert front-sided and turn 90°

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



H F E

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

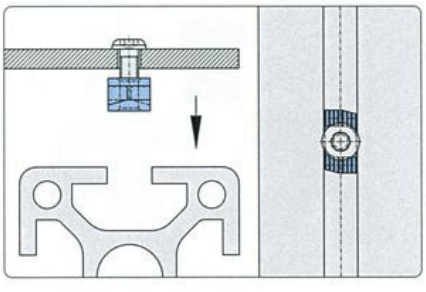


H F E

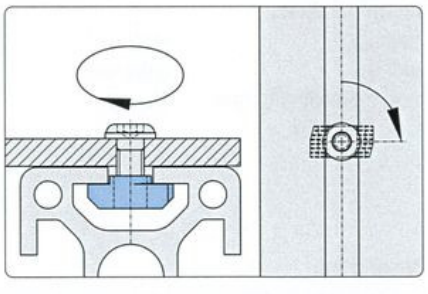
Description	G	$M_{A, max}$	Weight	Article-No.
Spring-nut E	M3	1.3 Nm	3.9 g	1.33.EM3
Spring-nut E	M4	3.0 Nm	3.7 g	1.33.EM4
Spring-nut E	M5	5.0 Nm	3.4 g	1.33.EM5
Spring-nut E	M6	10.0 Nm	3.0 g	1.33.EM6

T-slot nuts

Application
Fastening element for screw-type connections



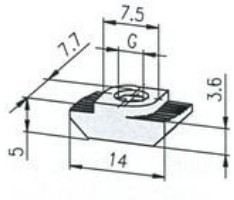
Assembly
Mount the T-slot nut onto the screw and insert into the slot



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

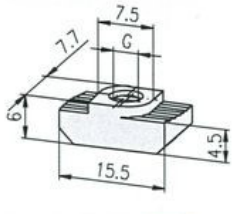
Technical data

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



H F E

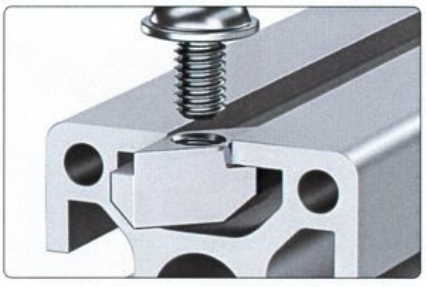
Description	G	$M_{A, max}$	Weight	Article-No.
T-slot nut F	M4	3.0 Nm	2.4 g	1.34.10FM4
T-slot nut F	M5	5.0 Nm	2.0 g	1.34.10FM5
T-slot nut F	M6	10.0 Nm	1.7 g	1.34.10FM6



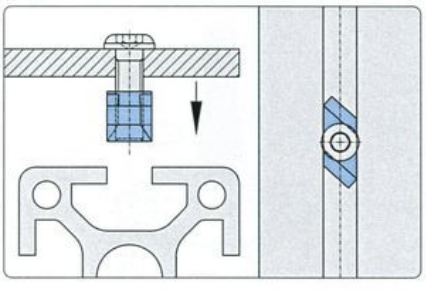
H F E

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

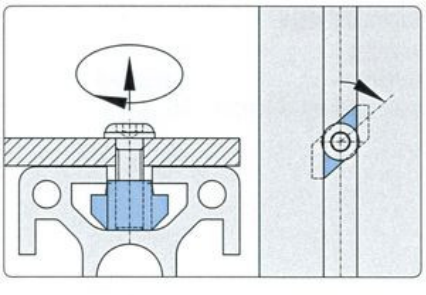
Rhomboid T-slot nuts
with self-locking



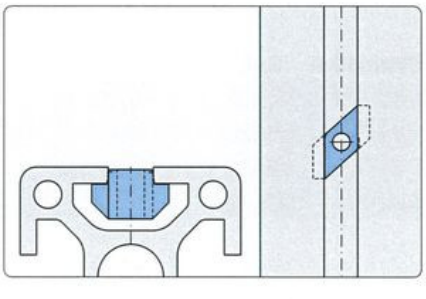
Application
For pre-assembly of threads in the profile slot



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



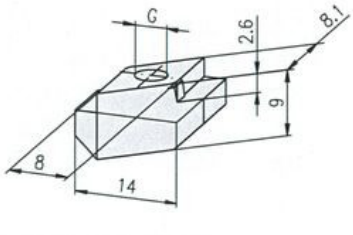
By tightening the screw, the rhomboid T-slot nut is turned 50° and jammed inside the slot with its conical flanks



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:	$M_{A, max}$



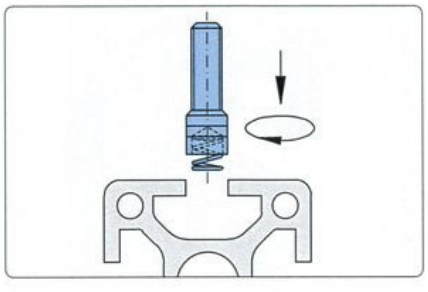
H F E

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

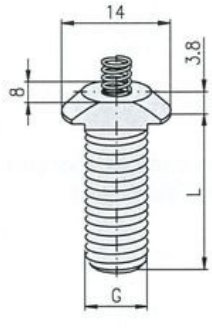
Application
Fastening element for screw-type connections



Assembly
Insert front-sided and turn 90°

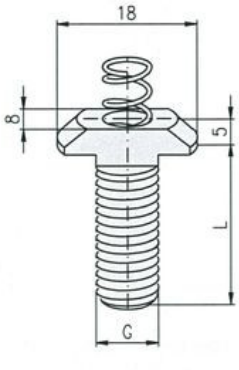
Technical data

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



H F E

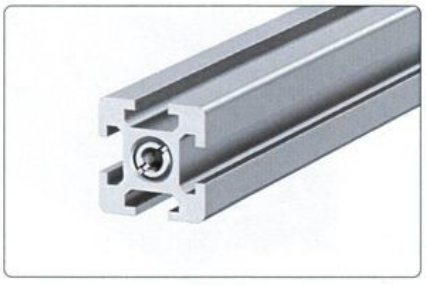
Description	G×L	$M_{A, max}$	Weight	Article-No.
T-Bolt F	M6×20	6 Nm	6.0 g	1.34.FM62
T-Bolt F	M6×30	6 Nm	7.0 g	1.34.FM63
T-Bolt F	M8×20	15 Nm	8.0 g	1.34.FM82
T-Bolt F	M8×30	15 Nm	11.2 g	1.34.FM83



H F E

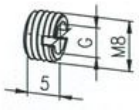
Description	G×L	$M_{A, max}$	Weight	Article-No.
T-Bolt E	M6×20	6 Nm	9.0 g	1.34.EM62
T-Bolt E	M6×30	6 Nm	10.0 g	1.34.EM63
T-Bolt E	M8×20	18 Nm	12.0 g	1.34.EM82
T-Bolt E	M8×25	18 Nm	13.0 g	1.34.EM825
T-Bolt E	M8×30	18 Nm	14.0 g	1.34.EM83
T-Bolt E	M8×40	18 Nm	18.0 g	1.34.EM84

Threaded inserts
for core hole Ø6



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

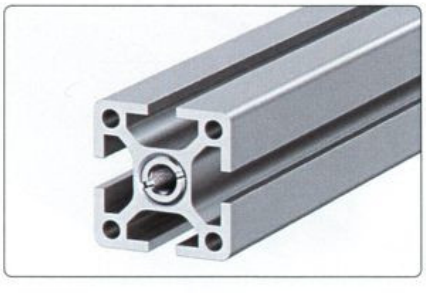
Technical data
material: steel
surface: galvanised



H F E

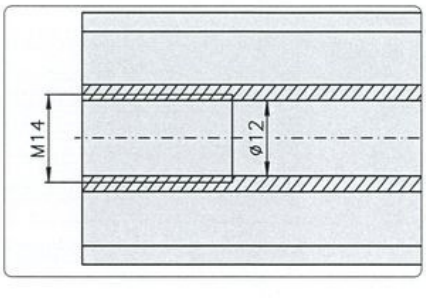
Description	G	Weight	Article-No.
Threaded insert	M8/M4	1.0 g	1.35.10804
Threaded insert	M8/M5	0.9 g	1.35.10805

for core hole Ø12

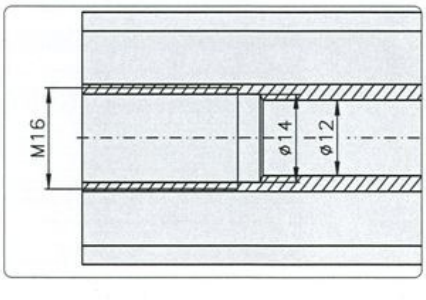


Application
For mounting on front end and fastening of any profile with core hole Ø12

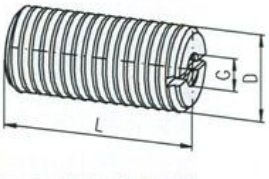
Technical data
material: steel
surface: galvanised



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

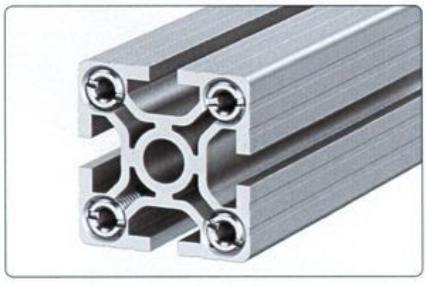


H F E

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

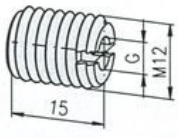
3

Threaded inserts
for outer chambers PG 50, heavy



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

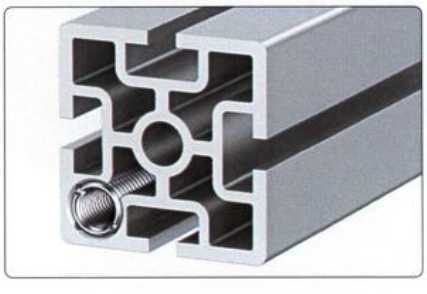
Technical data
material: steel
surface: galvanised



16 20 30 40 45 **50** 60

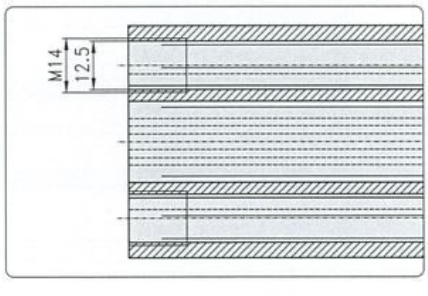
Description	G	Weight	Article-No.
Threaded insert	M12/M4	8.6 g	1.35.11204
Threaded insert	M12/M5	8.0 g	1.35.11205
Threaded insert	M12/M6	7.3 g	1.35.11206
Threaded insert	M12/M8	5.5 g	1.35.11208

for outer chambers PG 60

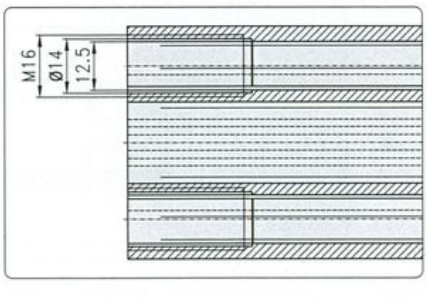


Application
For mounting on front end via the outer chambers PG 60

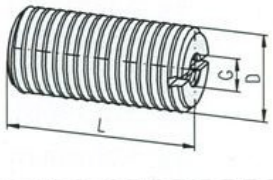
Technical data
material: steel
surface: galvanised



Assembly preparation for threaded insert M14/Mxx
- Tap M14 thread in outer chamber



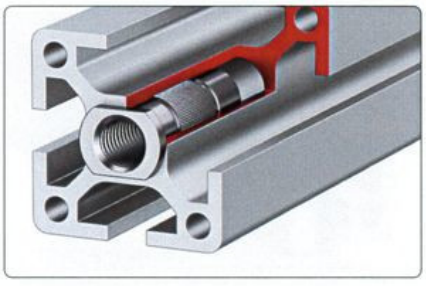
[1] **Assembly preparation for threaded insert M16/M12**
- Drill Ø12 mm outer chamber to 14 mm
- Tap M16 thread in borehole Ø14 mm



16 20 30 40 45 50 **60**

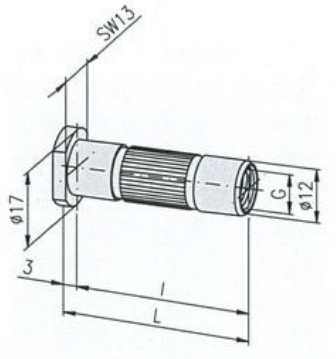
Description	D/G	L	Weight	Article-No.
Threaded insert	M14/M6	15	11 g	1.35.1140615
Threaded insert	M14/M6	30	22 g	1.35.1140630
Threaded insert	M14/M8	15	9 g	1.35.1140815
Threaded insert	M14/M8	30	18 g	1.35.1140830
Threaded insert	M14/M10	15	6 g	1.35.1141015
Threaded insert	M14/M10	30	12 g	1.35.1141030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



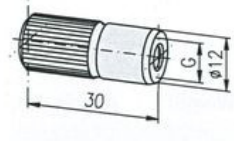
16 20 30 40 45 50 60

Description	G	L	l	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

3

1.4 Installation accessories

Cover profiles
☛ *4.03*

Cover profiles
☛ *4.03*

Sliding and cover profiles
☛ *4.04*

Reducing profiles
☛ *4.05*

Combination profiles
☛ *4.06*

Combination profiles
☛ *4.07*

Combination profiles for sliding profiles
☛ *4.09*

Guide profile for sliding profile
☛ *4.10*

Framing profiles one piece
☛ *4.11*

Wegde profiles
☛ *4.12*

Sponge rubber round cords
☛ *4.13-4.14*

Sealing profile
☛ *4.15*

Framing profiles
☛ *4.16-4.17*

Rubber cover-profiles
☛ *4.18*

Edge protection profile 40
☛ *4.19*

Cover caps for profiles
☛ *4.20-4.22*

Cover cap Ø48 for hand rail profile
☛ *4.22*

Cover plugs for cross bushings
☛ *4.23*

Cover plugs domed for cross bushings
☛ *4.24*

Cover caps for tubes
☛ *4.25*

Cover caps for screw bores
☛ *4.25*

Radius covers
☛ *4.26-4.27*

Radius compensations
☛ *4.28*

Floor levelling screws
☛ *4.29*

Levelling foot PA 20
☛ *4.29*

Hand adjustable feet
☛ *4.30*

Levelling feet
☛ *4.31*

Adjustable tilt-feet
☛ *4.32-4.36*

Angular adjusting feet
☛ *4.37*

Base foot
☛ *4.38*

Base feet
☛ *4.39-4.43*

Base angle
☛ *4.44*

Stacking foot
☛ *4.44*

Fixed castors
☛ *4.47, 4.53*

Swivel castors
☛ *4.47, 4.53*

Swivel castors lockable
☛ *4.47, 4.53*

Locking castors
☛ *4.59-4.60*

Angles
☛ *4.61*

Angles PA
☛ *4.62*

Angles GD-Zn
☛ *4.63 - 4.65*

Angles GD-Al
☛ *4.66*

Angles Alu
☛ *4.67*

4

Swivel angles straight design
☛ 4.68

Swivel angles
☛ 4.68-4.69

Cross connection plates
☛ 4.69

Base plates
☛ 4.70-4.71

Floor mounting plate
☛ 4.72

Mounting plates
☛ 4.73

Floor plate
☛ 4.73

Connection plates
☛ 4.74

Fastening plate for joint 30×100
☛ 4.75

Eye-bolt
☛ 4.76

Corner piece set angle PA
☛ 4.77

Corner piece set cubic PA
☛ 4.78

Corner piece set 45° PA
☛ 4.79

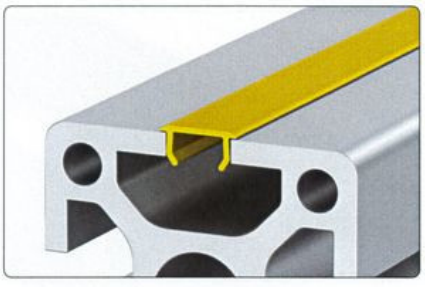
Corner piece set spherical PA
☛ 4.79

Corner pieces cubic
☛ 4.80-4.81

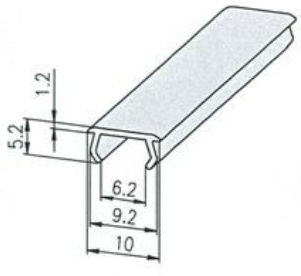
Corner pieces segment
☛ 4.80-4.81

Corner pieces sphere
☛ 4.80-4.81

Cover profiles



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

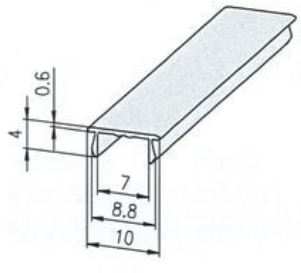


H F E

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

Colours
grey black yellow

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



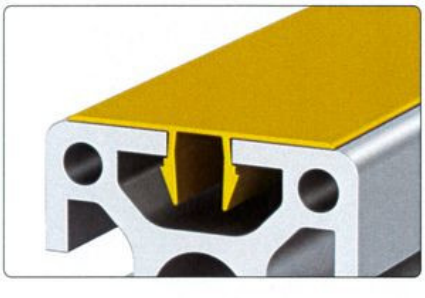
H F E

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

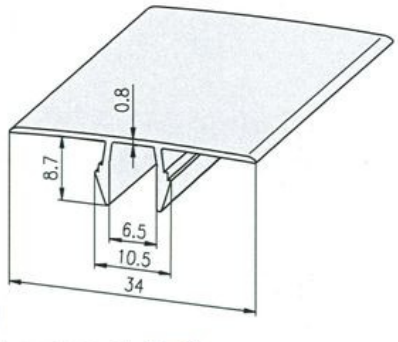
Colour
aluminium

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

4



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



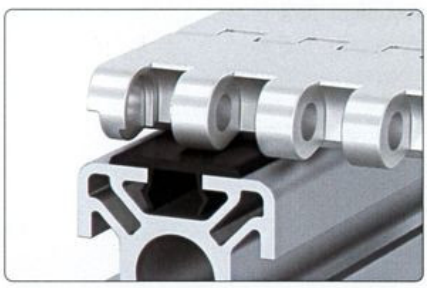
H F E

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

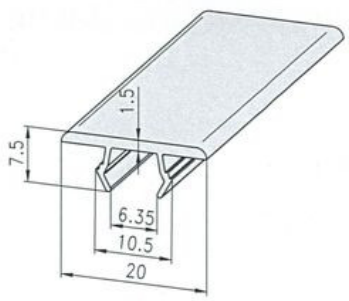
Colours
grey black yellow

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



H F E3

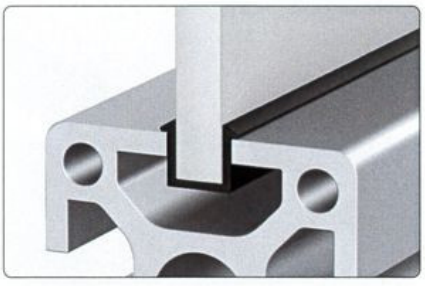
Technical data
bar length: 6.0 m
material: HD PE Shore 100

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

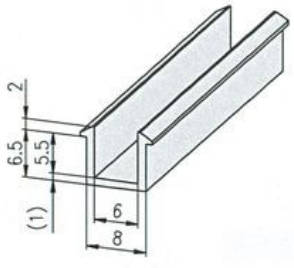
Colours
black grey/white

Description	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



H F E

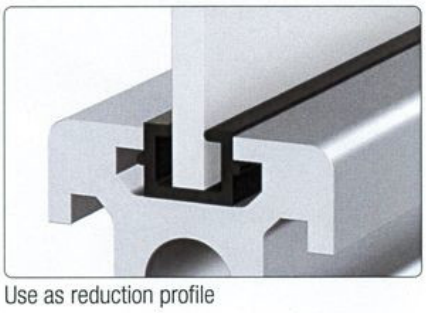
Technical data
bar length: 2.5 m
material: PVC rigid
- oil and water resistant
- anti-electrostatic
- lead- and cadmium free

Colours
grey black

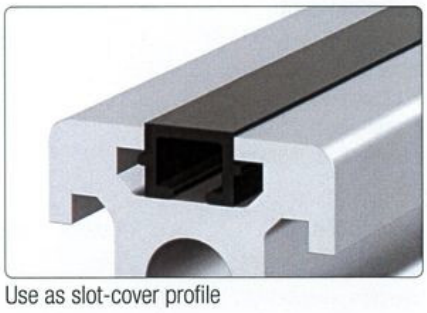
Description	Colour	similar to RAL	Weight	Article-No.
Reducing profile PVC, F/E, 8/6	grey	7035	85 g/bar	1.41.21.1
Reducing profile PVC, F/E, 8/6	black	9011	85 g/bar	1.41.21.2

4

Combination profiles PVC



Use as reduction profile

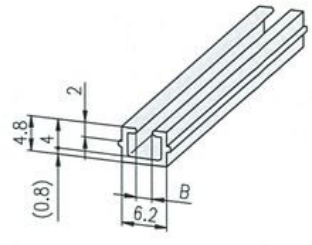


Use as slot-cover profile

Application
Combination profiles for use as reduction or cover profiles

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

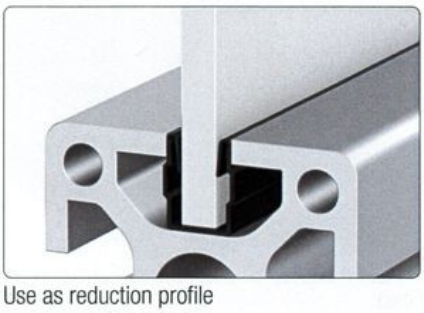
Colours
grey, black



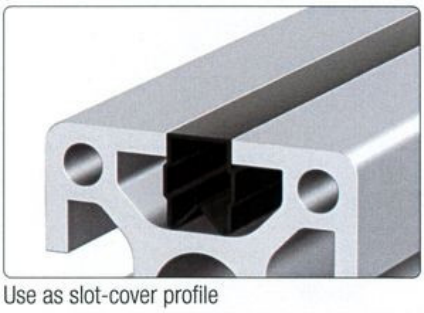
H F E

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

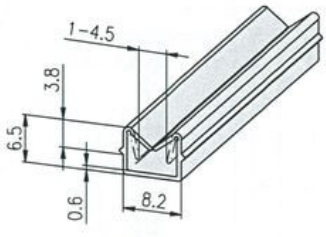


Use as slot-cover profile

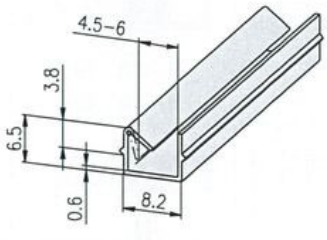
Application
Combination profiles for use as reduction or cover profiles

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

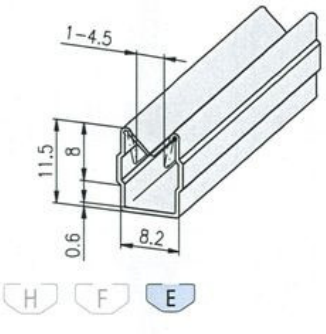
Colours
grey black



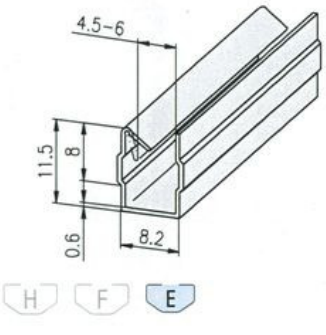
Description	D	Colour	similar to RAL	Weight	Article-No.
Combination profile F	1 - 4.5	grey	7035	31 g/bar	1.41.F14.1
Combination profile F	1 - 4.5	black	9011	31 g/bar	1.41.F14.2



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

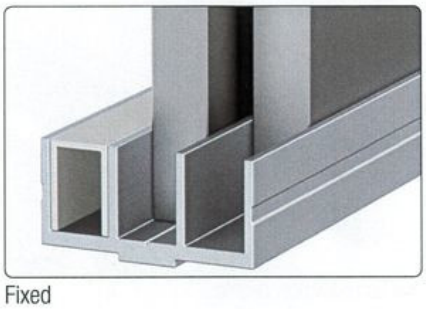


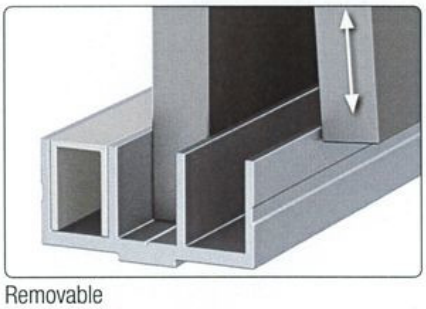
Description	D	Colour	similar to RAL	Weight	Article-No.
Combination profile E	1 - 4.5	grey	7035	47 g/bar	1.41.E314.1
Combination profile E	1 - 4.5	black	9011	47 g/bar	1.41.E314.2

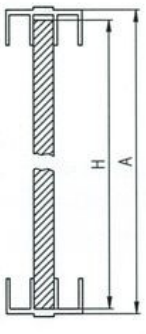
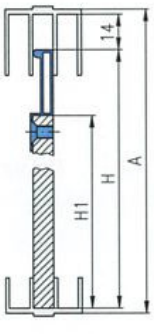
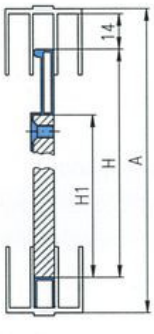
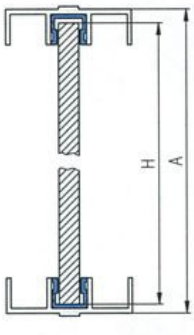
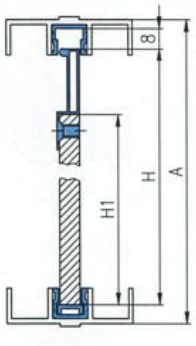
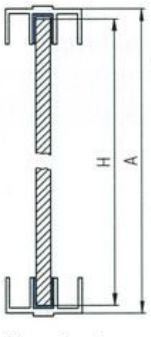
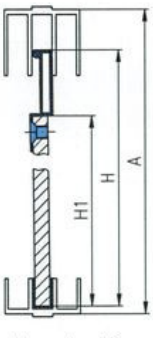
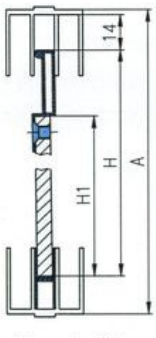
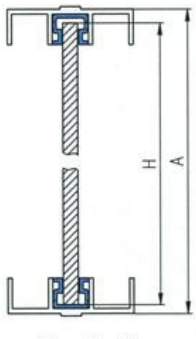
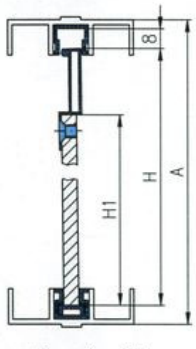
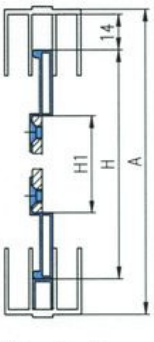
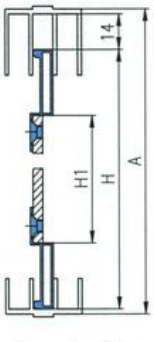
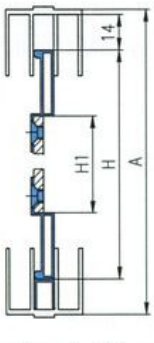
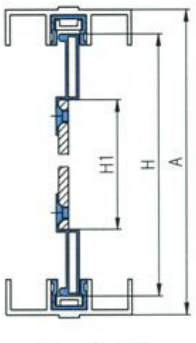
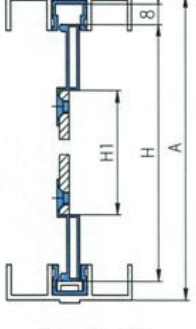


Description	D	Colour	similar to RAL	Weight	Article-No.
Combination profile E	4.5 - 6	grey	7035	42 g/bar	1.41.E346.1
Combination profile E	4.5 - 6	black	9011	42 g/bar	1.41.E346.2

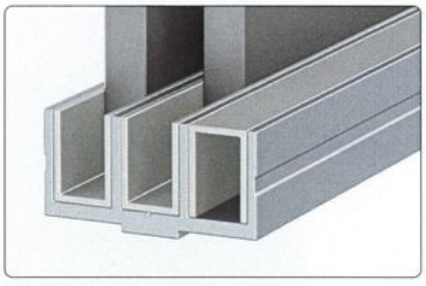
Sliding doors
construction types


Fixed


Removable

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

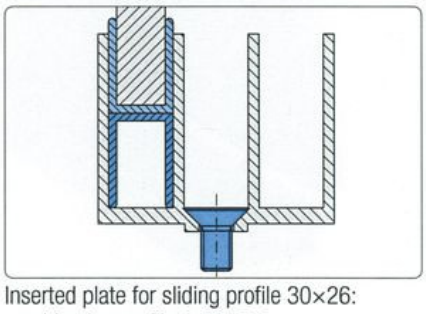
Combination profiles PVC



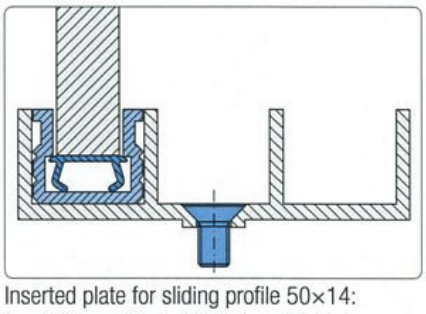
Application

Combination profiles for sliding profiles alternatively suitable as:

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



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



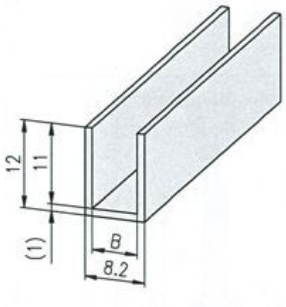
Inserted plate for sliding profile 50×14: for sliding profile 1.41.11.1, 1.41.11.2

Technical data

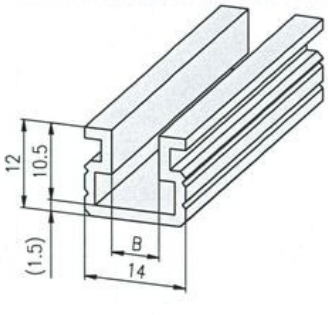
bar length: 2.5 m
material: PVC rigid
oil and water resistant

Colour

grey



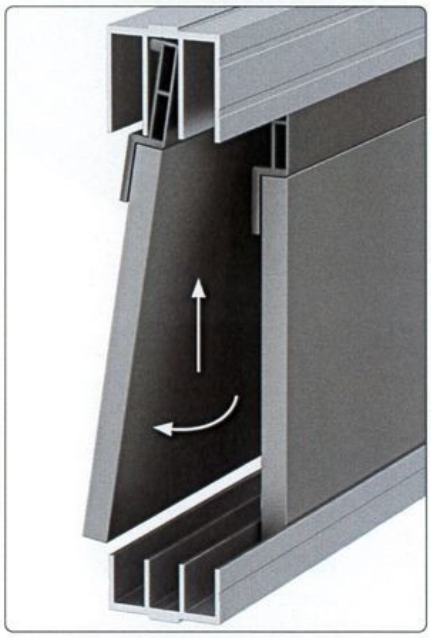
Description	B	Weight	Article-No.
Combination profile PVC for 30×14	6.2	115 g/bar	1.41.330



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

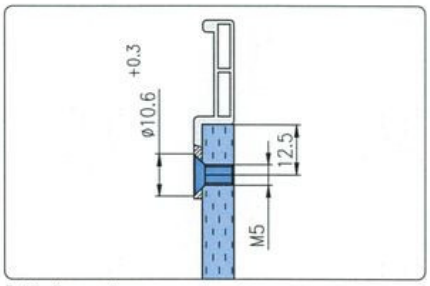
4

Guide profile PVC

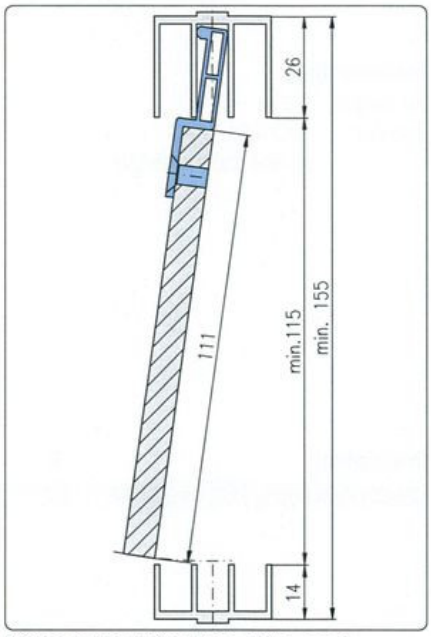


Application

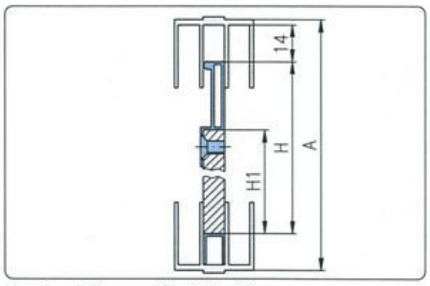
The guide profile is necessary
- for demountable sliding doors
- for the use of panel elements of each plate thickness from 1 mm to 14 mm



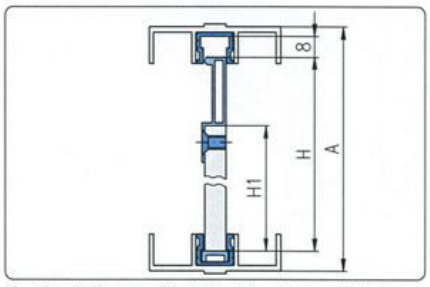
Drill dimensions



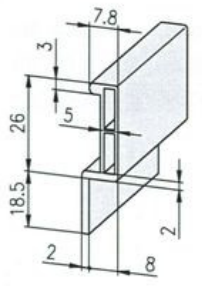
Minimum height for lifting of the panel elements



Use in sliding profile 30×26



Use in sliding profile 50×14 with combination profile



H F E

Technical data

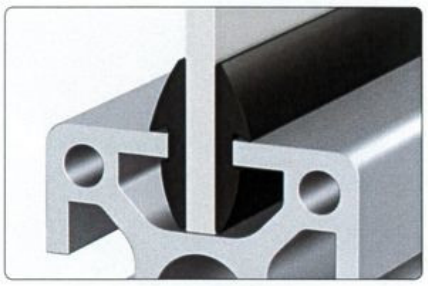
bar length: 2.5 m
material: PVC rigid
oil and water resistant

Colour

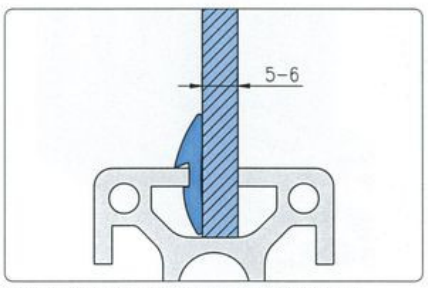
grey

Description	Weight	Article-No.
Guide profile PVC for sliding profile	375 g/bar	1.41.360

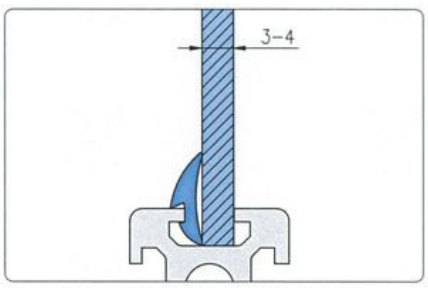
Framing profiles
one piece



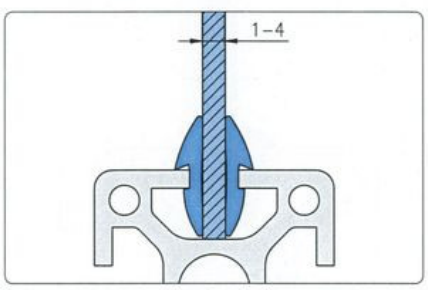
Application
The one piece framing profile for mounting panels of different thickness
The elastic lips provide a good seal



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



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

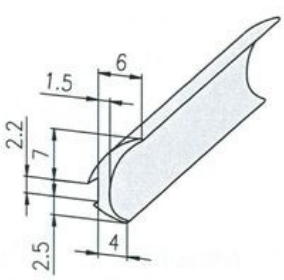


Two sided application for profiles with F- and E-slots and panels 1 - 4 mm thick

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

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

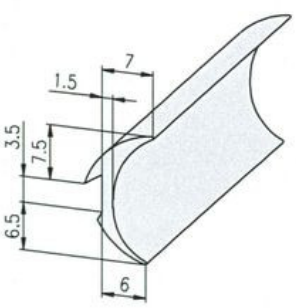
Colours
grey black



H F E

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

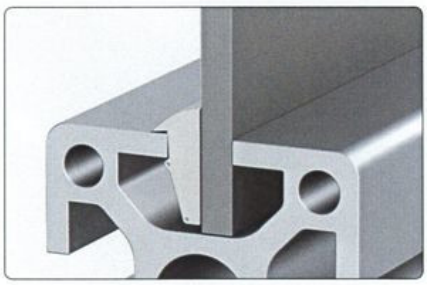


H F E

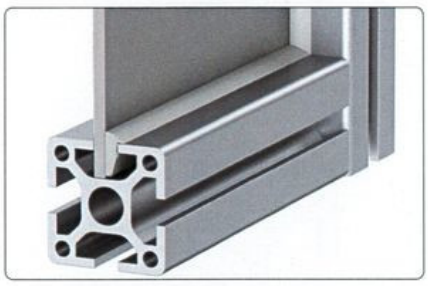
Description	Colour	similar to RAL	Weight	Article-No.
Framing profile one piece E	grey	7035	3,120 g/ring	1.41.5E0.1.60
			52 g/m	1.41.5E0.1-A00A00/...
Framing profile one piece E	black	9011	3,120 g/ring	1.41.5E0.2.60
			52 g/m	1.41.5E0.2-A00A00/...

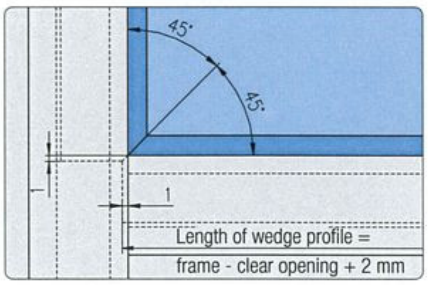
/... = length in mm

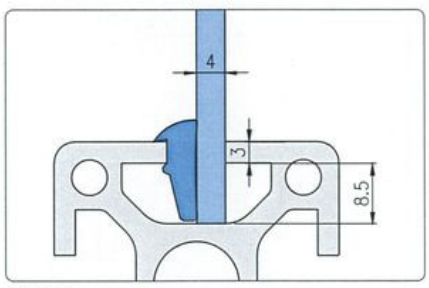
Wedge profiles



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



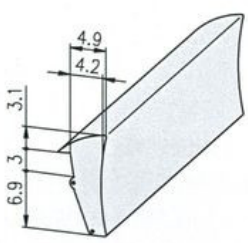




E3-slot

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

Colour
grey

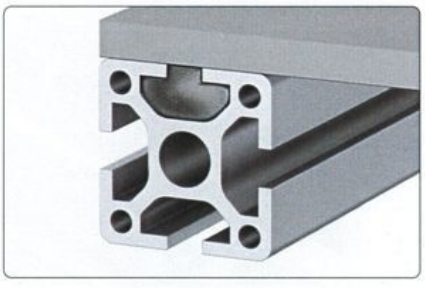


H F E3

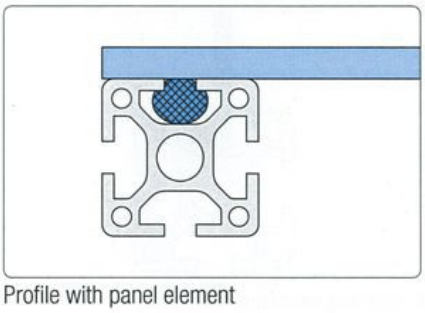
Description	Colour	Weight	Article-No.
Wedge profile E3	grey	5,000 g/ring	1.41.51E3.1.99
		50 g/m	1.41.51E3.1-A00A00/...

/... = length in mm

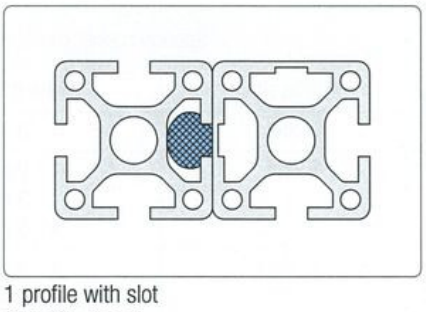
Sponge rubber round cords



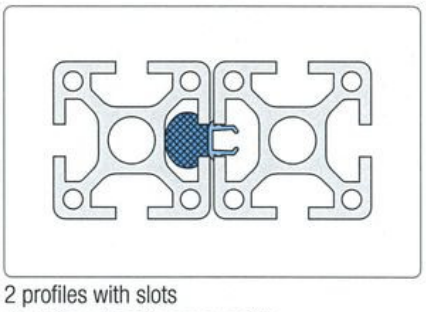
Application
Sponge rubber round cords for sealing



Profile with panel element



1 profile with slot
1 profile closed

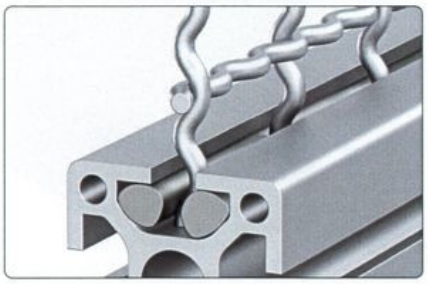


2 profiles with slots
1 profile with slot-cover profile

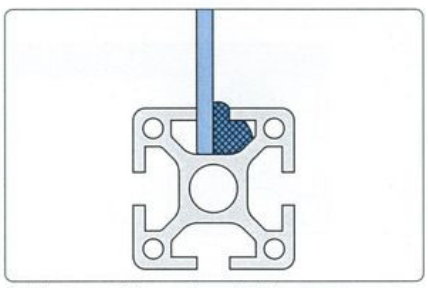
Sponge rubber round cord diameter-determination	
Profile slot	Sponge rubber diameter
H-slot	8 mm
F-slot	12 mm
E-slot	18 mm

4

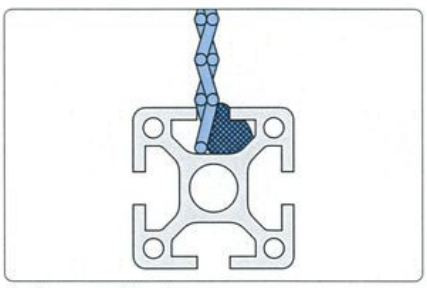
Sponge rubber round cords



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



Enclosures with panel materials

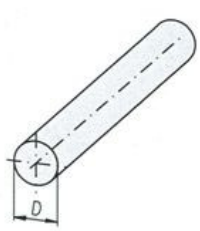


Enclosures with wire screens

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 3 mm 4 - 5 mm	10 mm 8 mm 6 mm
E-slot	1 - 3 mm 3 - 4 mm 5 mm	10 mm 2×8 mm 2×6 mm

Technical data
length of ring: 100 m
material: EPDM

Colour
grey

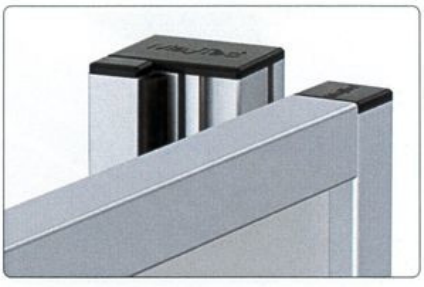


H F E

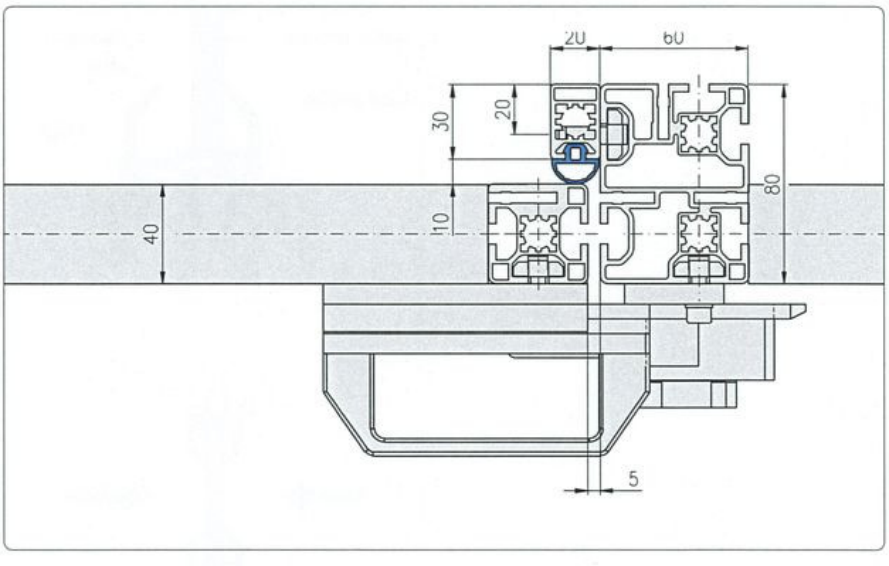
	Description	D	Weight	Article-No.
	Sponge rubber round cords	Ø6	1,100 g/ring	1.41.606.99
			11 g/m	1.41.606-A00A00/...
	Sponge rubber round cords	Ø8	1,900 g/ring	1.41.608.99
			19 g/m	1.41.608-A00A00/...
	Sponge rubber round cords	Ø10	3,200 g/ring	1.41.610.99
			32 g/m	1.41.610-A00A00/...
	Sponge rubber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

/... = length in mm

Sealing profile



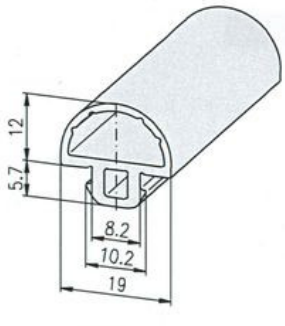
Application
For sealing of doors and windows and for door stops



Technical data
length of ring: 40 m
material: EPDM, 60° ± 5° Shore A

- free of silicon
- compatible with acrylic glass

Colour
black



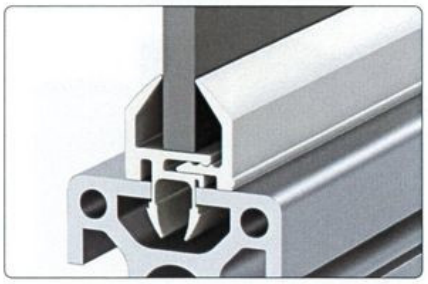
H F E

4

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/...

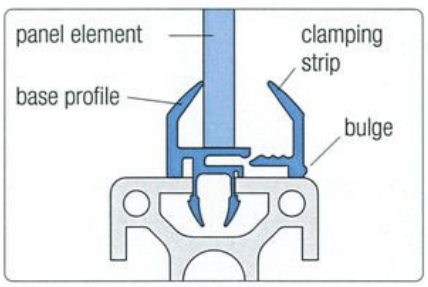
/... = length in mm

Framing profiles



Application

The framing profile allows the installation of panels in closed frames

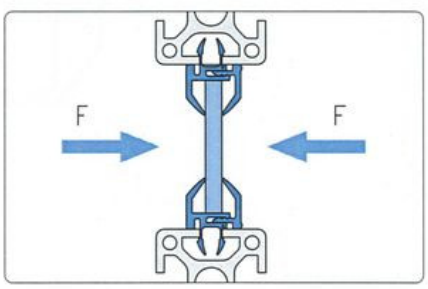


Assembly

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



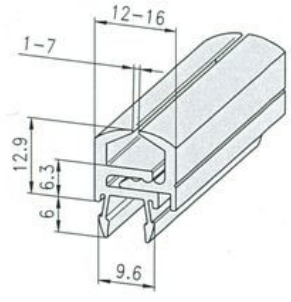
Maximum loading of framing profile:
F_{max} = 200 N/m
For maximum loading of element be aware of the stability of used framing profile

Technical data

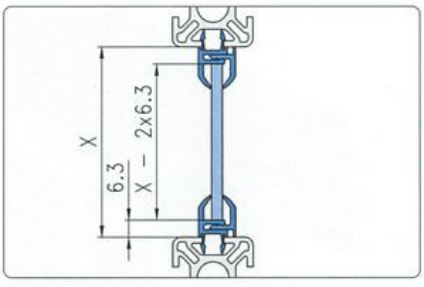
bar length:	6 m
material:	
• base body:	PVC rigid, 98° Shore A
• lip:	PVC soft, TPE 60° ± 5° Shore A, compatible with acrylic glass, free of silicon
temperature range:	-20°C to +80°C

Colours

grey black



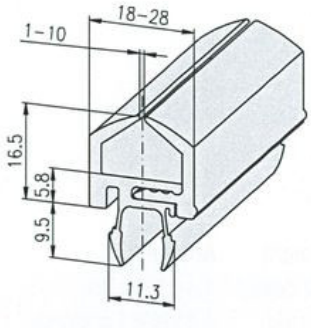
H F E



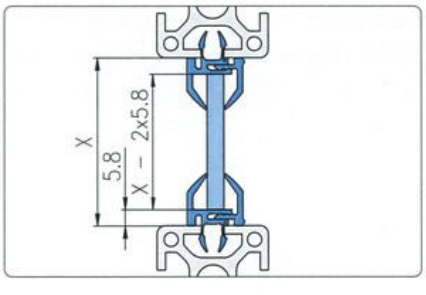
Comments
Suitable for panel elements from 1 to 7 mm thickness

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



H F E



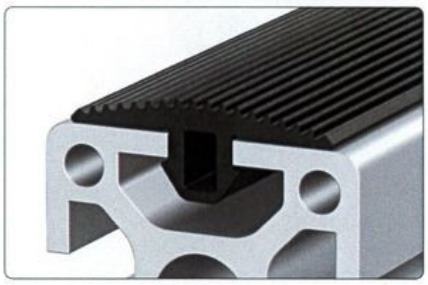
Comments
Suitable for panel elements from 1 to 10 mm thickness

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

4

Rubber cover-profiles



Application

Rubber cover-profiles for profile protection

Suitable for:

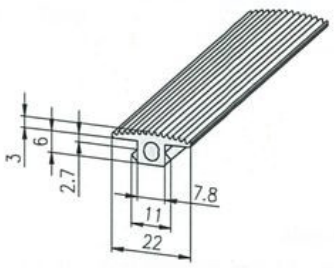
- door stop
- slide prevention on steps
- protection against damage
- handrails
- pads

Technical data

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

Colour

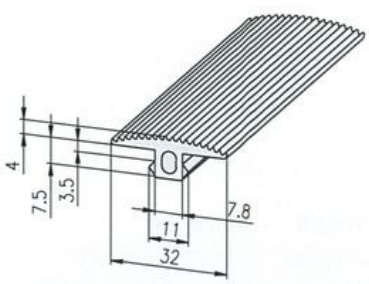
black



H F E

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/...

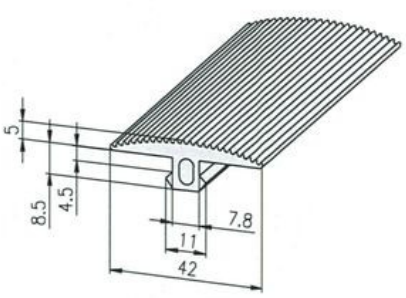
/... = length in mm



H F E3

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

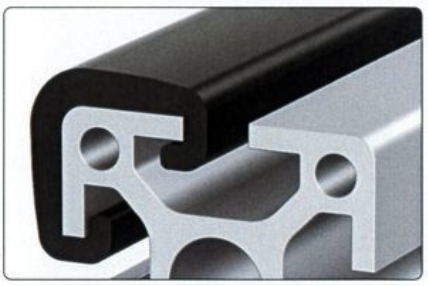


H F E4

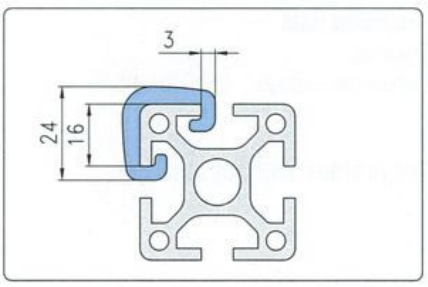
Description	Description	Weight	Article-No.
Rubber cover-profile E4	black	6,400 g/ring	1.41.8E50.20
		320 g/m	1.41.8E50-A00A00/...

/... = length in mm

Edge protection profile



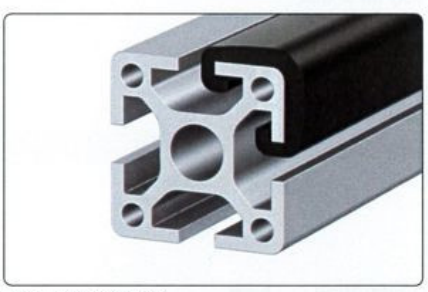
Application
Edge protection profile for profiles PG40

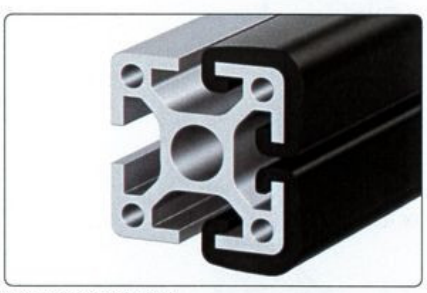


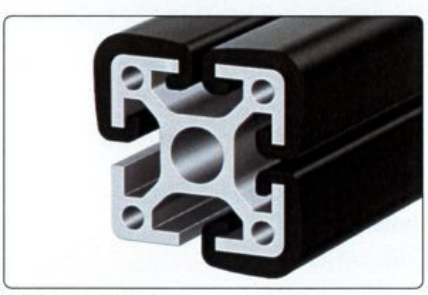
Assembly
For assembly use lubricant (e.g. diluted liquid soap).
Apply lubricant to the inside of the edge protection profile. Place the edge protection profile on the profile, press on one end until the lateral tabs jump behind the slot flanks, then continue to press until the entire profile piece is applied.

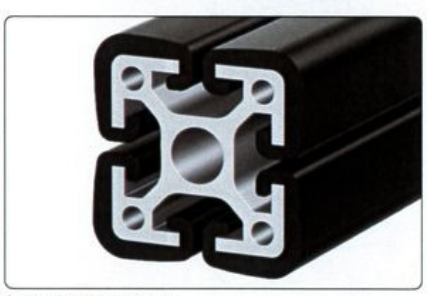
Technical data
bar length: 2 m
material: NBR, hardness 70 Shore A
oil and water resistant

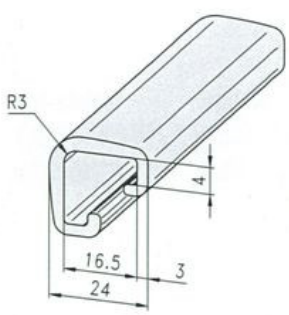
Colour
black


one edge covered


two edges covered


three edges covered


four edges covered



16 20 30 **40** 45 50 60

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

Cover caps

Application
Cover caps prevent dirt from entering and avoid lacerations.

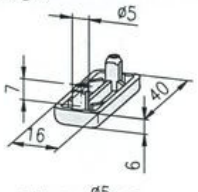
Comments
Before mounting debur core hole

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

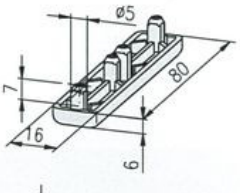
Colours
grey black

for profiles without core hole

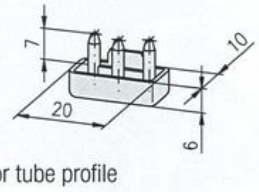
Rectangle



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

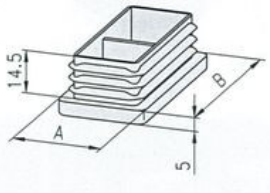


Description	Colour	Weight	Article-No.
Cover cap 16×80, E	grey	7.1 g	1.42.09016080.1
Cover cap 16×80, E only for E-Slot	black	7.1 g	1.42.09016080.2



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

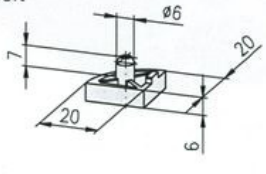
for tube profile



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

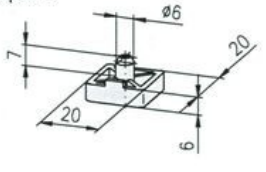
for profiles with core hole-Ø6

Soft



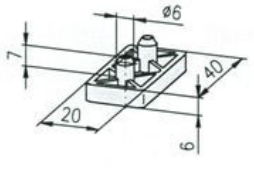
Description	Colour	Weight	Article-No.
Cover cap 20×20	grey	3 g	1.42.10200.1
Cover cap 20×20	black	3 g	1.42.10200.2

Square



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

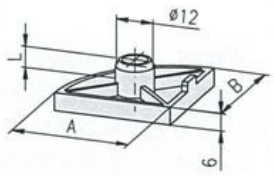
Rectangle



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

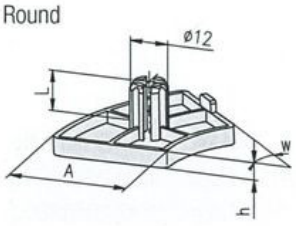
for profiles with core hole-Ø12

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

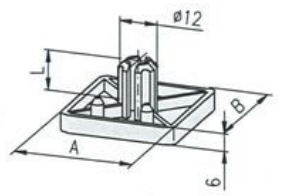
Round



⚠ note "h" !

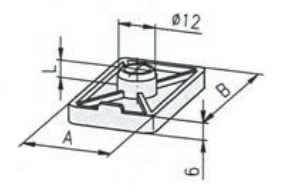
Description	A	W	h	L	Colour	Weight	Article-No.
Cover cap	40, round	30°	4	14	black	6 g	1.42.2040R30.2
Cover cap	40, round	45°	6	14	black	8 g	1.42.2040R45.2
Cover cap	40, round	60°	6	14	black	12 g	1.42.2040R60.2
Cover cap	40, round	90°	6	14	black	16 g	1.42.2040R90.2

Square



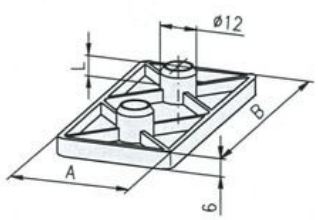
Description	A×B	L	Colour	Weight	Article-No.
Cover cap	30×30	14	grey	6 g	1.42.20303.1
Cover cap	30×30	14	black	6 g	1.42.20303.2
Cover cap	40×40	14	grey	10 g	1.42.20404.1
Cover cap	40×40	14	black	10 g	1.42.20404.2
Cover cap	45×45	14	black	12 g	1.42.2045045.2
Cover cap	50×50	7	grey	15 g	1.42.20505.1
Cover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

Rectangle



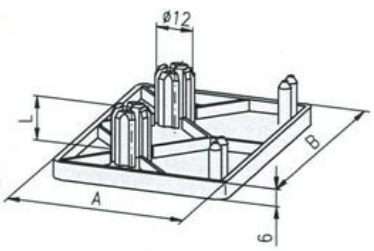
Description	A×B	L	Colour	Weight	Article-No.
Cover cap	20×30	7	grey	4 g	1.42.20203.1
Cover cap	20×30	7	black	4 g	1.42.20203.2
Cover cap	30×50	7	grey	8 g	1.42.20305.1
Cover cap	30×50	7	black	8 g	1.42.20305.2
Cover cap	45×60	14	black	12.1 g	1.42.2045060.2

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

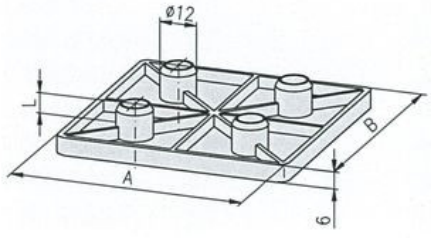


Description	A×B	L	Colour	Weight	Article-No.
Cover cap	60×80	14	black	21.4 g	1.42.2060080.2

4

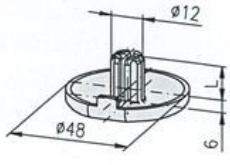
for profiles with core hole-Ø12

Square



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

Ø48 for hand rail profile



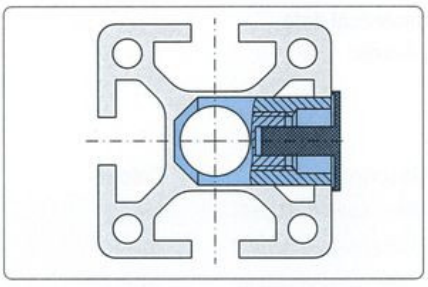
C **Technical data**
material: PA-GF

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

Cover plugs

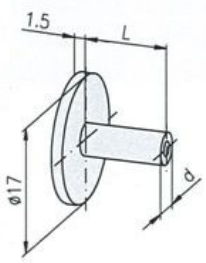
Application
The cover plug allows the closing of the connector cross bushing bore

Cover plug in combination with cover profile



Technical data
material: PE

Colours
grey black

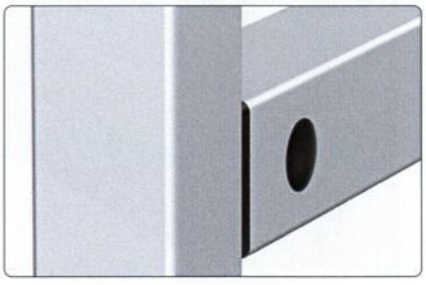


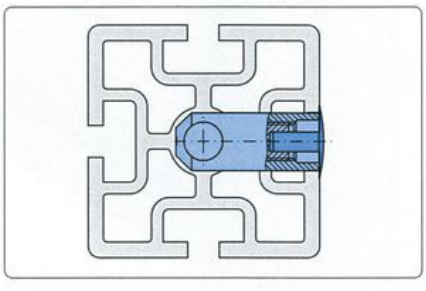
Description	Colour	L	d	Weight	Article-No.
Cover plug 20	grey	3.5	Ø4.3	2 g	1.42.502.1
Cover plug 20	black	3.5	Ø4.3	2 g	1.42.502.2
Cover plug 30	grey	6.0	Ø5.3	3 g	1.42.503.1
Cover plug 30	black	6.0	Ø5.3	3 g	1.42.503.2
Cover plug 40	grey	11.0	Ø5.3	4 g	1.42.504.1
Cover plug 40	black	11.0	Ø5.3	4 g	1.42.504.2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

4

Cover plugs domed

C



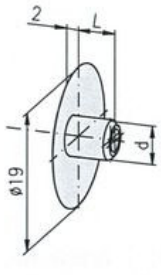


Application
The cover plug allows the closing of the connector cross bushing bore

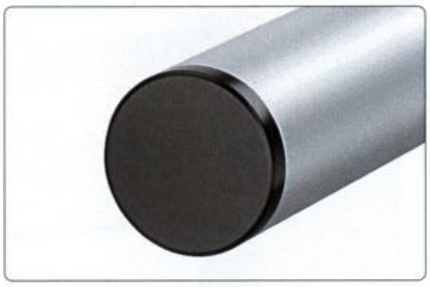
Technical data
material: PE

Colours
grey black

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



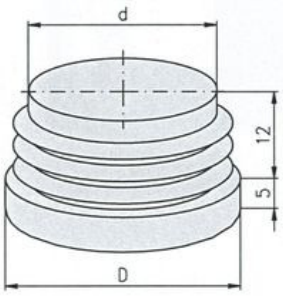
Cover caps for tubes



Application
The cover cap allows the closing of the aluminium tube
(inner tube Ø = d)

Technical data
material: PE

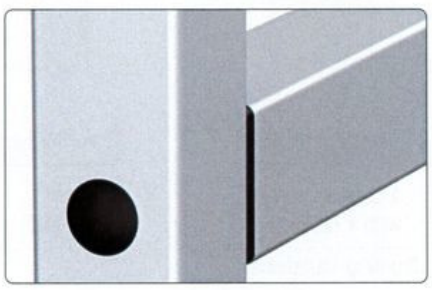
Colours
grey black



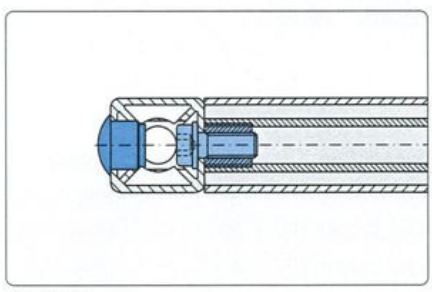
Description	D	Colour	d	Weight	Article-No.
Tube cover cap	Ø20	grey	Ø16	1.8 g	1.42.6020.1
Tube cover cap	Ø20	black	Ø16	1.8 g	1.42.6020.2
Tube cover cap	Ø30	grey	Ø24	3.4 g	1.42.6030.1
Tube cover cap	Ø30	black	Ø24	3.4 g	1.42.6030.2
Tube cover cap	Ø40	grey	Ø32	5.3 g	1.42.6040.1
Tube cover cap	Ø40	black	Ø32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

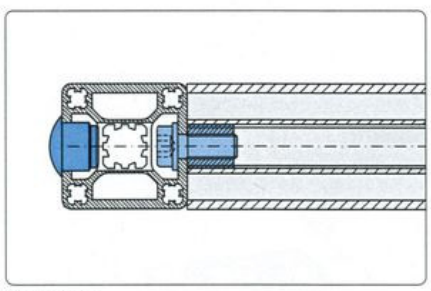
Cover caps
for screw bores

C



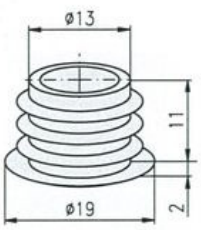
Application
The cover plug allows the closing of the screw bore


Profile 30


Profile 40

Technical data
material: PE

Colours
grey black

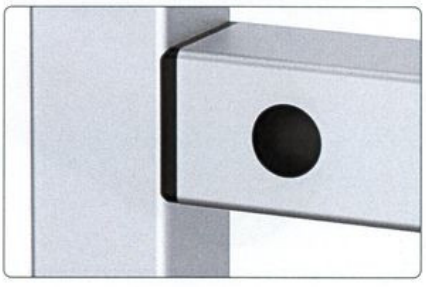


Description		Colour	Weight	Article-No.
Cover plug	Ø15	grey	1.3 g	1.42.6114.1
Cover plug	Ø15	black	1.3 g	1.42.6114.2

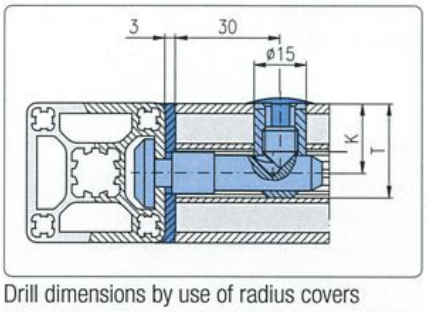
4

Radius covers

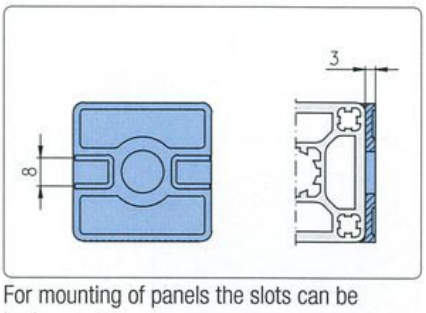
C



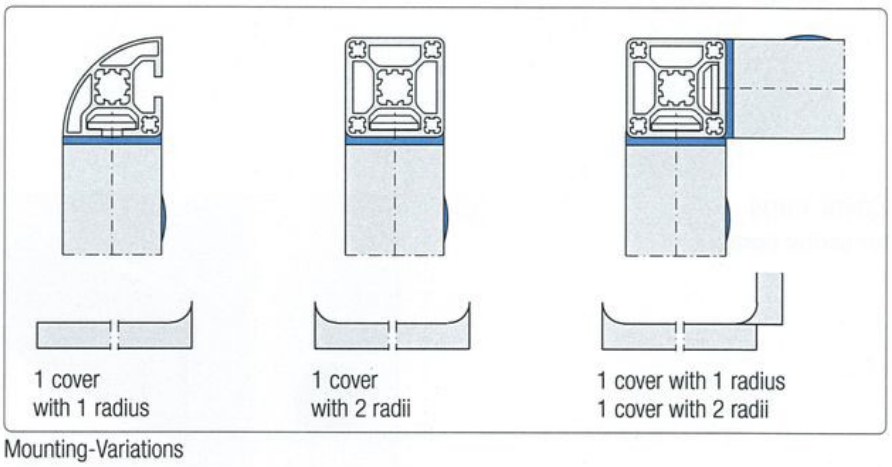
Application
For covering the exterior profile radius



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



For mounting of panels the slots can be broken out

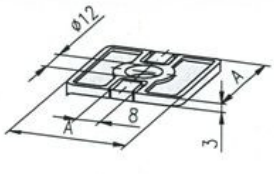


Mounting-Variations

Technical data
material: PA-GF

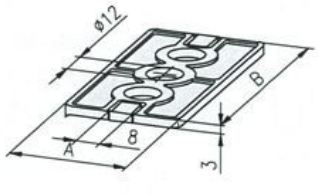
Colours
grey black

Square
with one radius



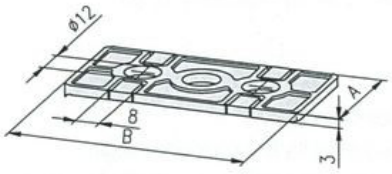
Description	A	Colour	Weight	Article-No.
Radius cover 1R	30	grey	3.1 g	1.43.10030030.1
Radius cover 1R	30	black	3.1 g	1.43.10030030.2
Radius cover 1R	40	grey	6.1 g	1.43.10040040.1
Radius cover 1R	40	black	6.1 g	1.43.10040040.2
Radius cover 1R	45	grey	5.4 g	1.43.10045045.1
Radius cover 1R	45	black	5.4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

Rectangle
with one radius



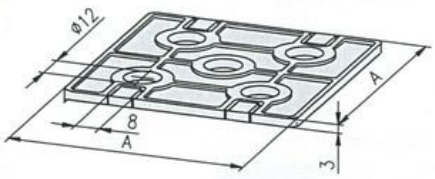
Description	A	B	Colour	Weight	Article-No.
Radius cover 1R	30	60	grey	5.8 g	1.43.10030060.1
Radius cover 1R	30	60	black	5.8 g	1.43.10030060.2
Radius cover 1R	40	80	grey	11.8 g	1.43.10040080.1
Radius cover 1R	40	80	black	11.8 g	1.43.10040080.2
Radius cover 1R	45	90	grey	10.7 g	1.43.10045090.1
Radius cover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

Rectangle 90°
with one radius



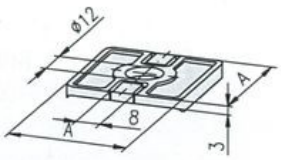
Description	A	B	Colour	Weight	Article-No.
Radius cover 1R	30	60	grey	5.8 g	1.43.11030060.1
Radius cover 1R	30	60	black	5.8 g	1.43.11030060.2
Radius cover 1R	40	80	grey	11.8 g	1.43.11040080.1
Radius cover 1R	40	80	black	11.8 g	1.43.11040080.2
Radius cover 1R	45	90	grey	10.8 g	1.43.11045090.1
Radius cover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

Square
with one radius



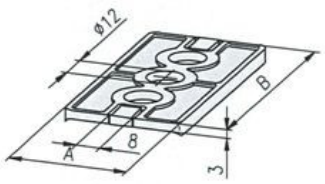
Description	A	Colour	Weight	Article-No.
Radius cover 1R	60	grey	12.0 g	1.43.10060060.1
Radius cover 1R	60	black	12.0 g	1.43.10060060.2
Radius cover 1R	80	grey	24.0 g	1.43.10080080.1
Radius cover 1R	80	black	24.0 g	1.43.10080080.2

Square
with two radii



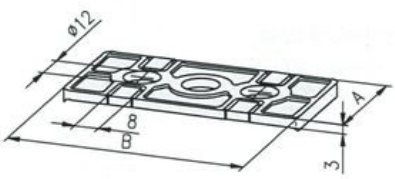
Description	A	Colour	Weight	Article-No.
Radius cover 2R	30	grey	3.2 g	1.43.20030030.1
Radius cover 2R	30	black	3.2 g	1.43.20030030.2
Radius cover 2R	40	grey	6.3 g	1.43.20040040.1
Radius cover 2R	40	black	6.3 g	1.43.20040040.2
Radius cover 2R	45	grey	5.6 g	1.43.20045045.1
Radius cover 2R	45	black	5.6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

Rectangle
with two radii



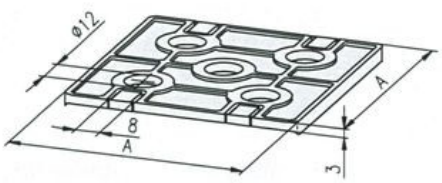
Description	A	B	Colour	Weight	Article-No.
Radius cover 2R	30	60	grey	6.0 g	1.43.20030060.1
Radius cover 2R	30	60	black	6.0 g	1.43.20030060.2
Radius cover 2R	40	80	grey	12.0 g	1.43.20040080.1
Radius cover 2R	40	80	black	12.0 g	1.43.20040080.2
Radius cover 2R	45	90	grey	10.9 g	1.43.20045090.1
Radius cover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

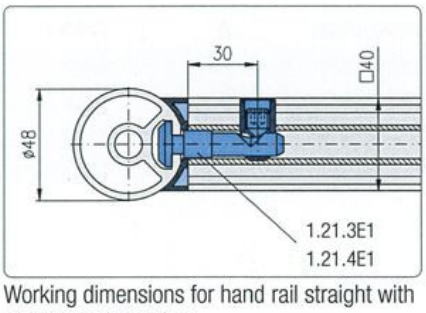
Radius compensations

C

Post: Profile 40×40

Application
Radius compensation for hand rails
☛ *Profile applications 1.1E.03*

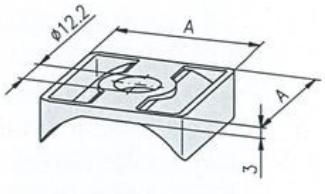
Comments
Angled joints at any required angle
Not suitably for the use with tilted hand rails



Working dimensions for hand rail straight with radius compensation

Technical data
material: PA-GF

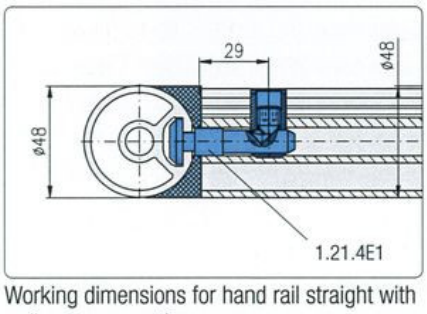
Colours
grey black



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

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

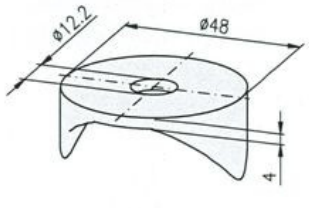
Post: Profile Ø48



Working dimensions for hand rail straight with radius compensation

Technical data
material: PA-GF

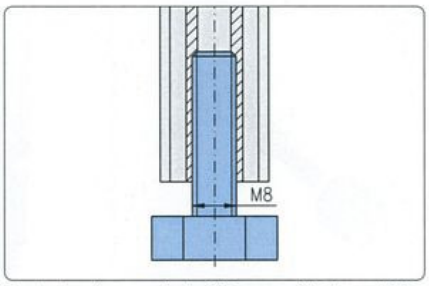
Colours
grey black



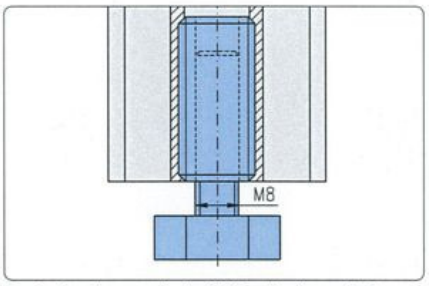
Description	Colour	Weight	Article-No.
Radius compensations Ø48	grey	4.0 g	1.43.71048000.1
Radius compensations Ø48	black	4.0 g	1.43.71048000.2

Levelling feet

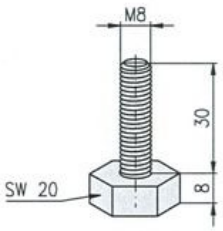
Assembly
Fastening in core hole Ø6 mm with thread M8



Fastening in core hole Ø6 mm with thread M8



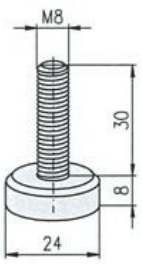
Fastening in core hole Ø12 with threaded insert M14/M8



Technical data
material:
- plate: PE-HD
- screw: steel, galvanised

max. static load: 2,500 N

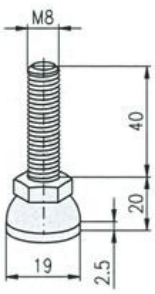
Description	Weight	Article-No.
Floor levelling screw, SW20, M8×30	20 g	1.44.002003



Technical data
material:
- plate: PE-HD
- screw: steel, galvanised

max. static load: 2,500 N

Description	Weight	Article-No.
Floor levelling screw, Ø24, M8×30	22 g	1.44.002403



Technical data
material:
- foot plate: PA, black
- threaded bolt: steel, galvanised

max. static load: 500 N
with anti-slip-disc

Description	Weight	Article-No.
Levelling foot, PA, 20 M8×40	24 g	1.44.003020

Technical data
material: steel, galvanised

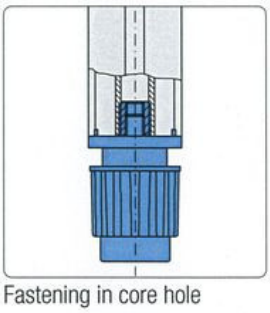
Description	G	H	Weight	Article-No.
Nut	M8	5	5 g	1.44.46M08

4

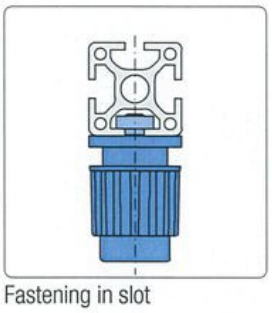
Hand adjustable feet

Application
For manual levelling of benches, tables and light bases.

Height adjustable alternative by hand or with tool



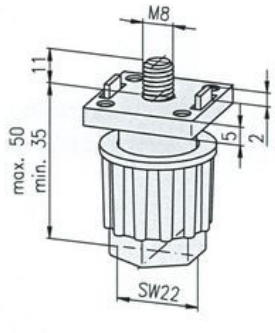
Fastening in core hole

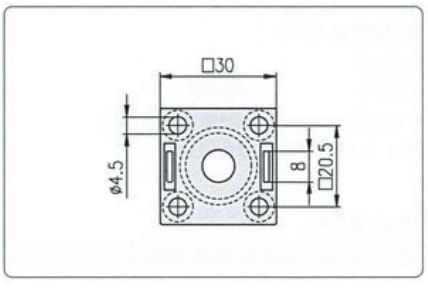


Fastening in slot

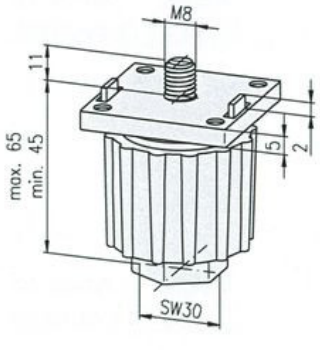
Technical data
material:
- capsule: PA, black
- spindle, nut and washer: steel galvanised

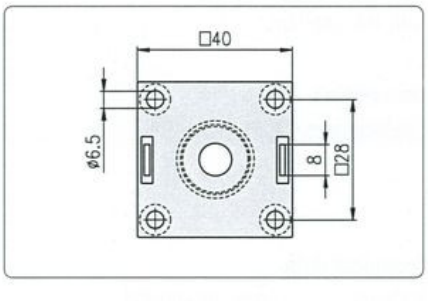
max. static load: 1,500 N





Description	Weight	Article-No.
Hand adjustable foot 30	40 g	1.44.203008



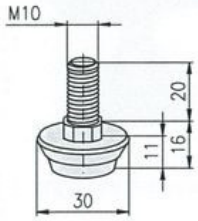


Description	Weight	Article-No.
Hand adjustable foot 40	78 g	1.44.204008

Levelling feet

For profiles with core hole-Ø 12 mm

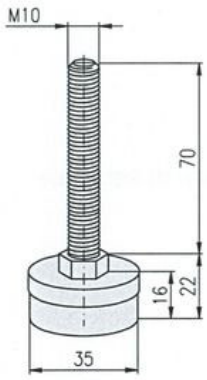
Assembly
Fastening in core hole with threaded insert M14/M10



Technical data
material:
- foot plate: PA, black
- cap: steel, galvanised
- screw thread: steel, galvanised

max. static load: 1,500 N

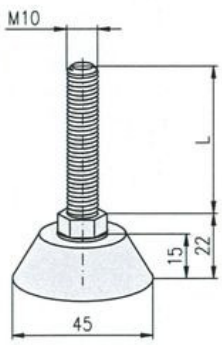
Description	Weight	Article-No.
Levelling furniture foot, Ø30, M10×18	24 g	1.44.303002



Technical data
material:
- foot plate: PA, black
- cap: steel, galvanised
- screw thread: steel, galvanised

max. static load: 1,500 N

Description	Weight	Article-No.
Levelling foot, Ø35, M10×70	70 g	1.44.303507



Technical data
material:
- foot plate: PA, black
- screw thread: steel, galvanised

max. static load: 1,500 N

Description	L	Weight	Article-No.
Levelling foot, Ø45,	M10×50	60 g	1.44.304505
Levelling foot, Ø45,	M10×70	69 g	1.44.304507

4

Adjustable tilt-feet

Application

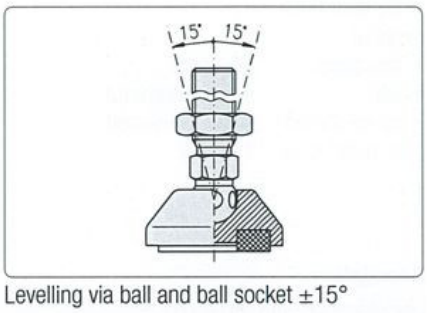
Adjustable tilt-feet for gradual height adjustment of sub-assemblies such as:

- 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

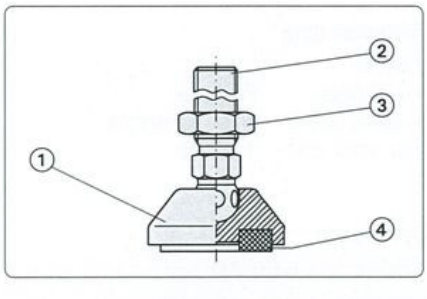


Levelling via ball and ball socket ±15°

Comments

Infinitely variable adjustable tilt-feet for use either with:

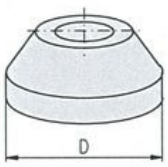
- anti-slip disc
- cushion element

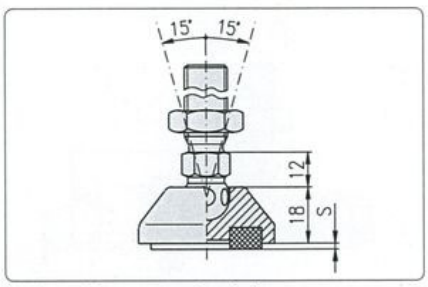


Adjustable tilt-feet - Single parts						
Pos.	Description	Material				
	Adjustable tilt-foot-	PA	GD-Zn	Steel	Stainl. steel	NBR 1.4305
①	plate	•	•		•	
②	spindle			•	•	
③	nut			•	•	
④	anti-slip disc cushion element					• •

Adjustable tilt-foot plates
without mounting holes

Technical data
material:
PA: PA-GF, black
GD-Zn: GD-Zn, black powder-coated
stainless: stainless steel 1.4305
F = static load max. in kN





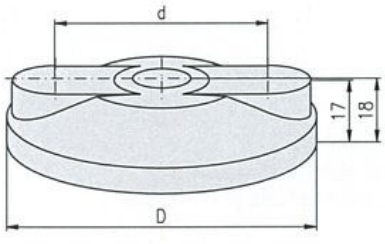
Design without mounting holes

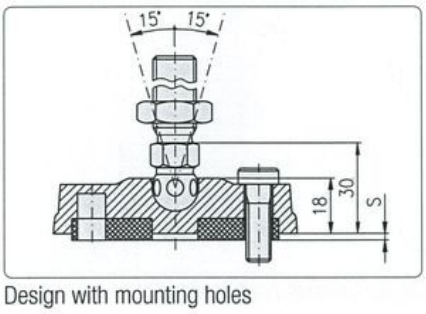
S = height of:
- anti-slip disc (S = 2 mm)
- cushion element (S = 10 mm)

		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





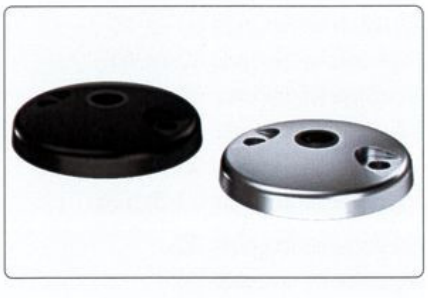
Design with mounting holes

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

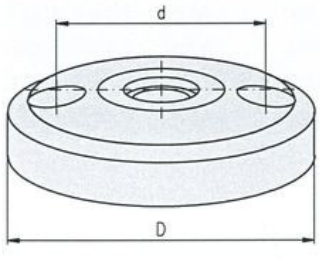
S = height of:
- anti-slip disc (S = 2 mm)
- cushion element (S = 10 mm)

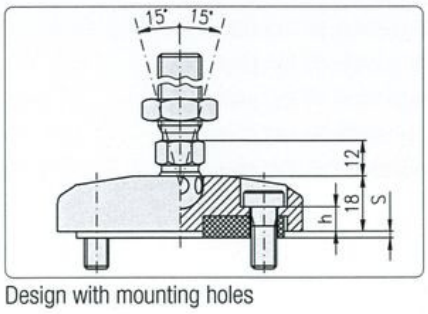
PA

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



Technical data
material:
GD-Zn: GD-Zn, black powder-coated
stainless: stainless steel 1.4305
pickled and passivated
F = static load max. in kN





Design with mounting holes

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

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

GD-Zn

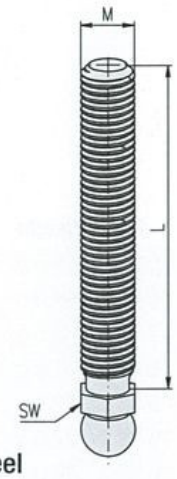
Stainless steel C R

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

Adjustable tilt-foot spindles

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

Steel



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

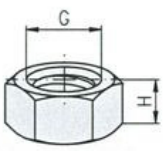
Stainless steel C R

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



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

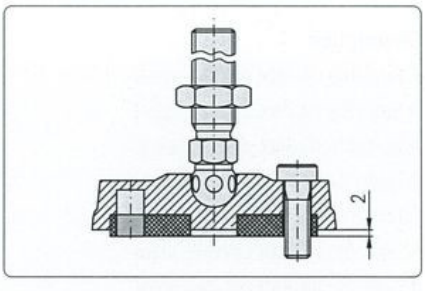
Stainless steel C R

Nut, stainless	M14	8	16 g	1.44.46M14V

4

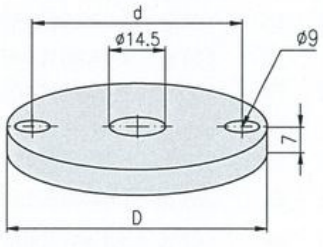
Adjustable tilt-foot anti-slip discs

C



Application
Element for protection against dislocation and floor damage

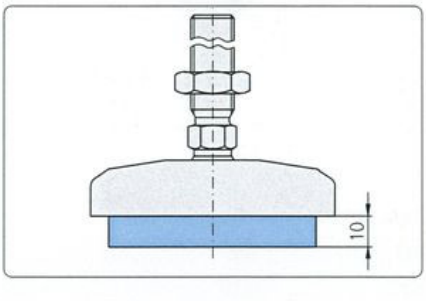
Technical data
material: NBR, oil and water resistant
colour: black
hardness: 80 Shore A
F = static load max. in KN



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

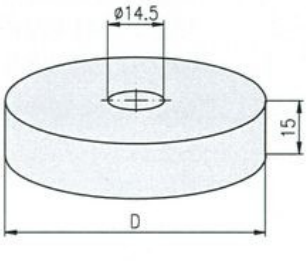
Adjustable tilt-foot cushion elements

C



Application
Cushion elements

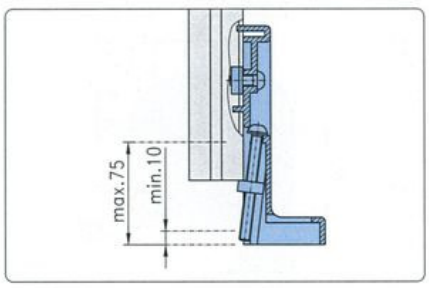
Technical data
material: NBR, oil and water resistant
colour: black
hardness: 70 Shore A
F = static load max. in N



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

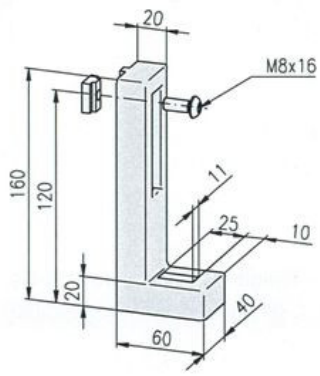
Angular adjusting feet

Application
For fastening of frames to floor or wall



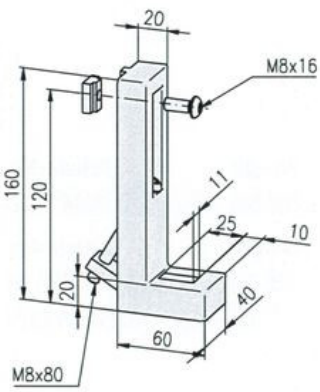
Technical data
material:
- base body: GD-Al, black
- nuts: steel galvanised
- screws: steel galvanised

max. static load: 10,000 N



Delivery unit
- base body
- nut M8
- screw M8×14 - 10.9

Description	Weight	Article-No.
Angular adjusting foot without adjusting screw	468 g	1.44.716001



Delivery unit:
- base body
- nut M8
- screw M8×14 - 10.9
- screw M8×80 - 10.9
- square nut

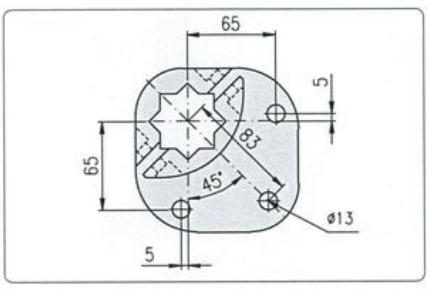
Description	Weight	Article-No.
Angular adjusting foot with adjusting screw	519 g	1.44.716002

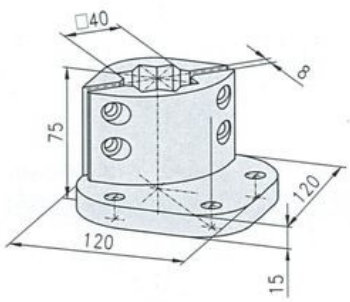
4

Base foot
for profile 40×40

Application
Base feet for fastening profiles and frames to floor or wall

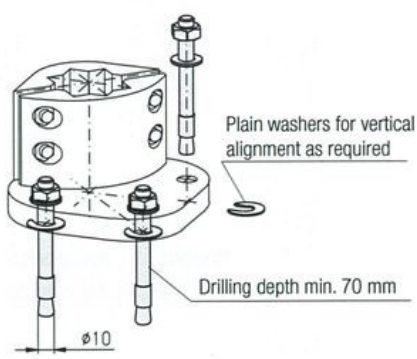
Technical data
material: GD-Zn





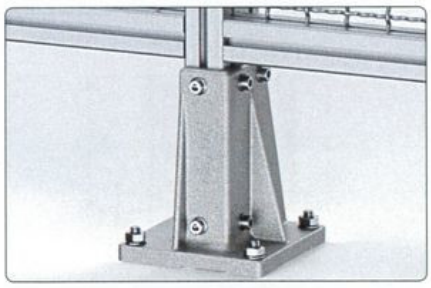
Description	Weight	Article-No.
Base foot for profile 40×40	979 g	1.44.83040

Floor mounting set



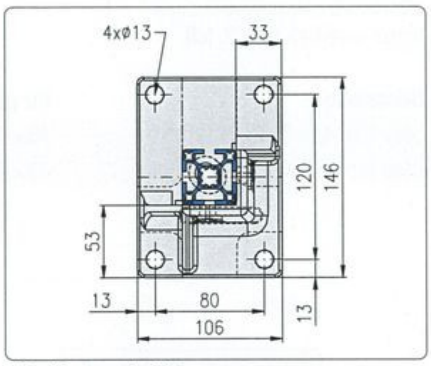
Description		Weight	Article-No.
Floor mounting set 3 MKT		202.3 g	1.44.83BB
Single parts	**Pcs.**	**Weight**	**Article-No.**
Pin anchor MKT, B10/20/95	3	65.3 g	0.66.MKT.B1020-95
Plain washer 1×Ø24/11	8	0.8 g	1.44.89011324

Base feet

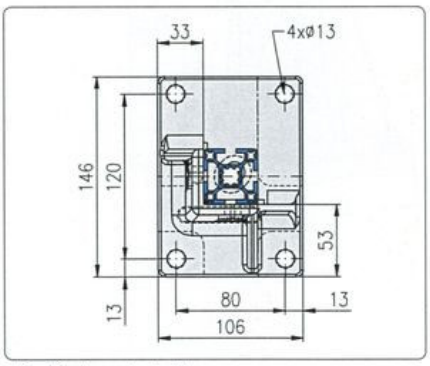


Application
Base feet for fastening profiles and frames to floor or wall

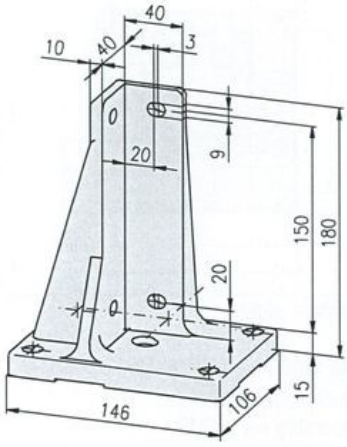
Technical data
material: GK AlZn 10Si8Mg



40×40, type 1, left



40×40, type 1, right

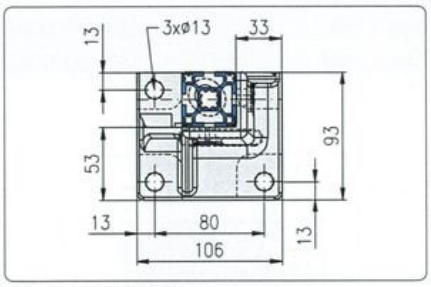


Comments
3D picture shows type 1, right
mirror-inverted: type 1, left

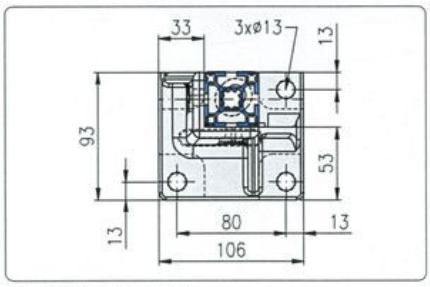
Mounting sets (☛ *4.42, 4.43*)
Floor mounting set 4 MKT
Profile mounting set 4 EM8

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

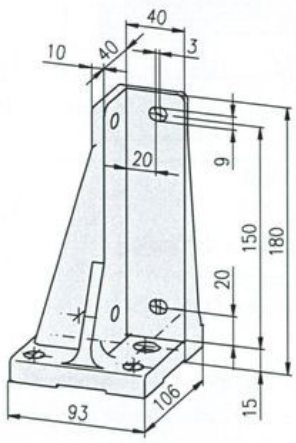
4



40×40, type 2, left



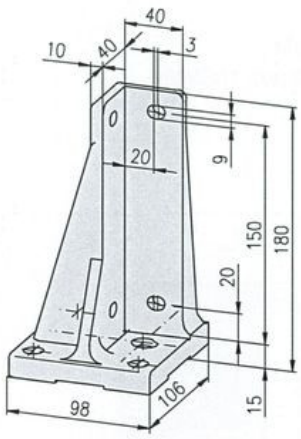
40×40, type 2, right

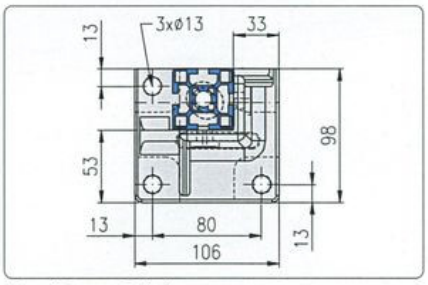


Comments
3D picture shows type 2, right
mirror-inverted: type 2, left

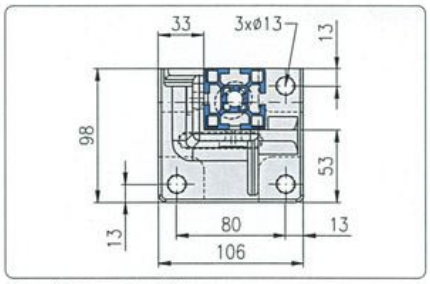
Mounting sets (☛ *4.42, 4.43*)
Floor mounting set 3 MKT
Profile mounting set 4 EM8

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





45×45, type 2, left

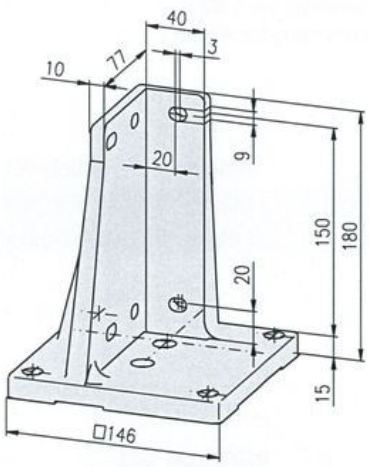


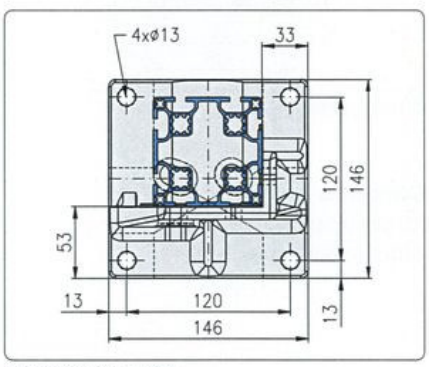
45×45, type 2, right

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

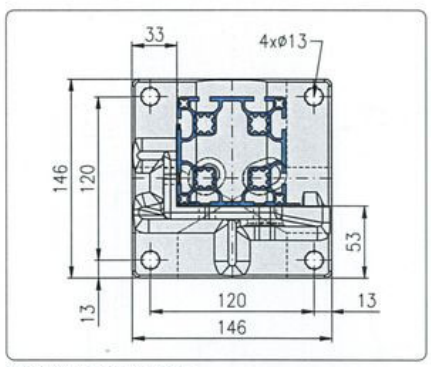
Mounting sets *(☛ 4.42, 4.43)*
Floor mounting set 3 MKT
Profile mounting set 4 EM8

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





40×80, type 1, left

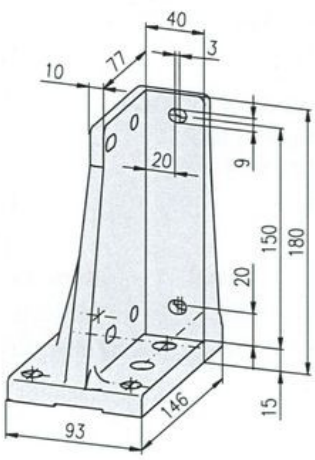


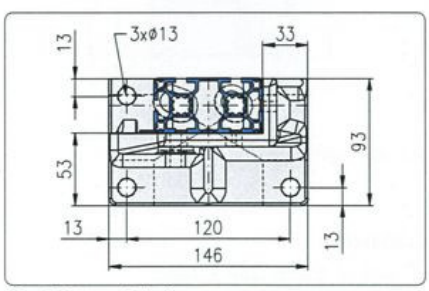
40×80, type 1, right

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

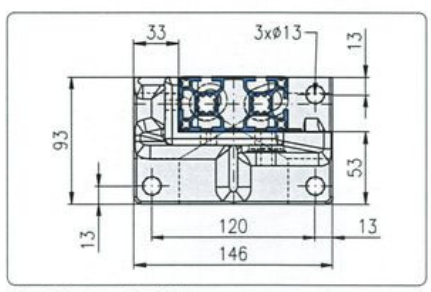
Mounting sets *(☛ 4.42, 4.43)*
Floor mounting set 4 MKT
Profile mounting set 6 EM8

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





40×80, type 2, left

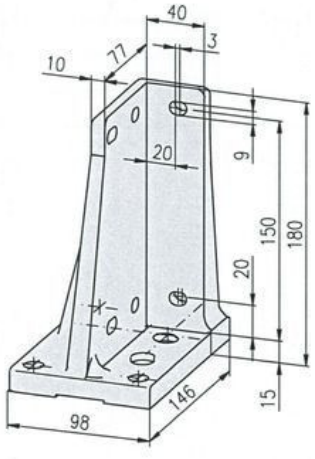


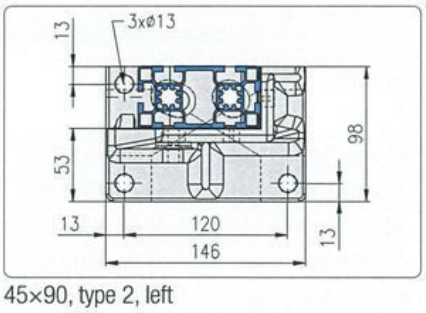
40×80, type 2, right

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

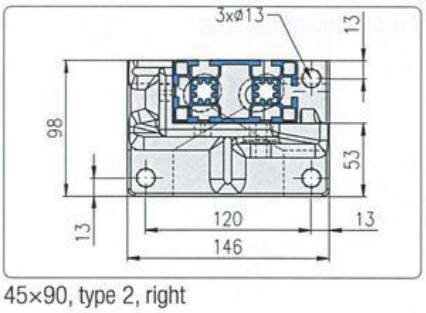
Mounting sets *(☛ 4.42, 4.43)*
Floor mounting set 3 MKT
Profile mounting set 6 EM8

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





45×90, type 2, left

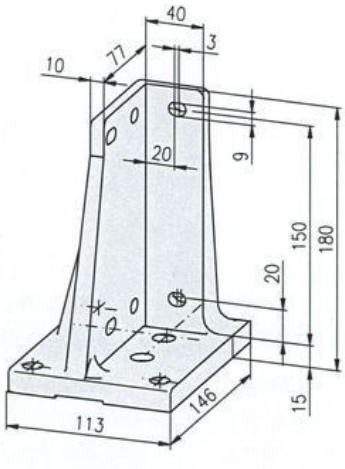


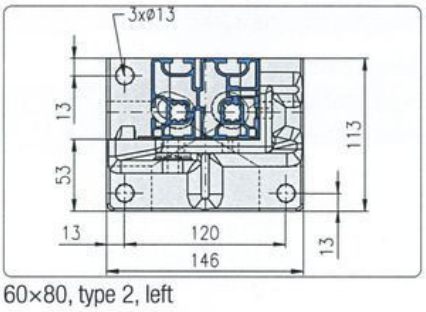
45×90, type 2, right

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

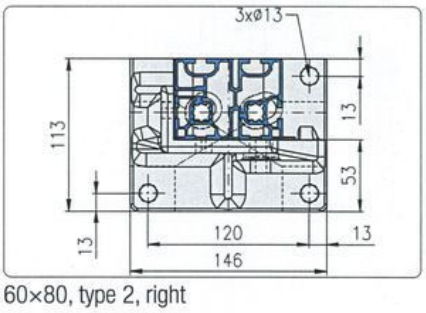
Mounting sets *(☛ 4.42, 4.43)*
Floor mounting set 3 MKT
Profile mounting set 6 EM8

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





60×80, type 2, left



60×80, type 2, right

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

Mounting sets *(☛ 4.42, 4.43)*
Floor mounting set 3 MKT
Profile mounting set 6 EM8

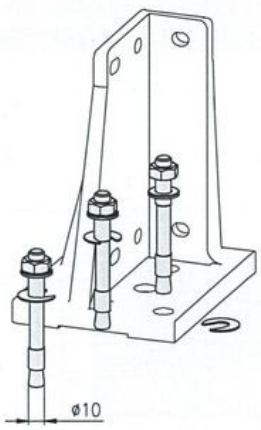
Description	for profile	Weight	Article-No.
Base foot 60×80, type 2, left	60×80	1.25 kg	1.44.84.6080.60L
Base foot 60×80, type 2, right	60×80	1.25 kg	1.44.84.6080.60R

4

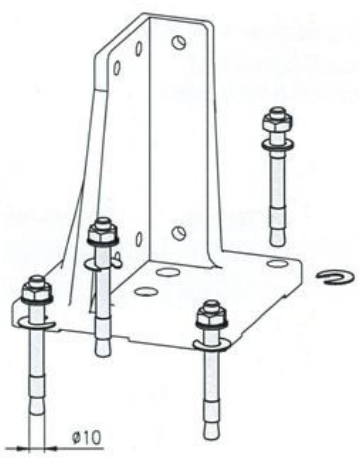
Floor mounting sets

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

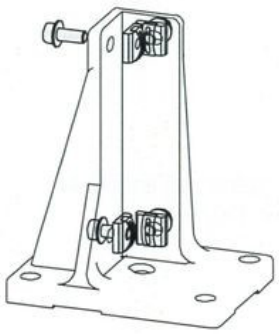


Description		Weight	Article-No.
Floor mounting set 3 MKT		202.3 g	1.44.83BB
Single parts	**Pcs.**	**Weight**	**Article-No.**
Pin anchor MKT, B10/20/95	3	65.3 g	0.66.MKT.B1020-95
Plain washer 1×Ø24/11	8	0.8 g	1.44.89011324



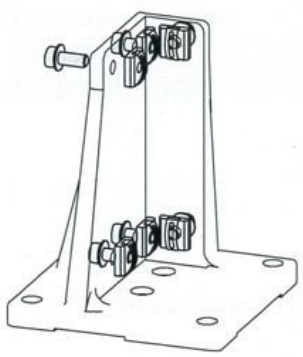
Description		Weight	Article-No.
Floor mounting set 4 MKT		269.2 g	1.44.84BB
Single parts	**Pcs.**	**Weight**	**Article-No.**
Pin anchor MKT, B10/20/95	4	65.3 g	0.66.MKT.B1020-95
Plain washer 1×Ø24/11	10	0.8 g	1.44.89011324

Profile mounting sets



Application
Suitable for mounting of the profiles:
- 40×40
- 45×45

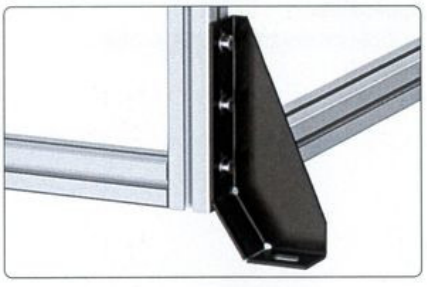
Description		Weight	Article-No.
Profile mounting set 4 EM8		112.4 g	1.44.80BP40.20
Single parts	**Pcs.**	**Weight**	**Article-No.**
Threaded plate, heavy, E M8	4	16.3 g	1.31.6EM8
Collar screw WN 251 M8×20	4	11.8 g	0.63.WN0251.08020



Application
Suitable for mounting of the profiles:
- 40×80
- 45×90
- 60×80, panel

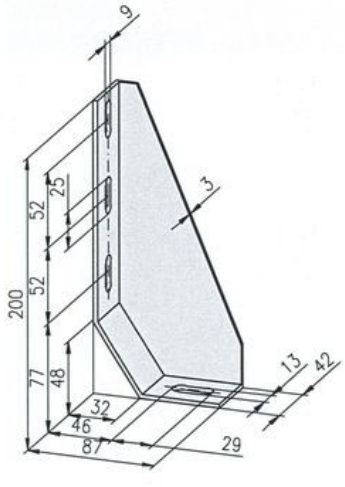
Description		Weight	Article-No.
Profile mounting set 6 EM8		168.6 g	1.44.80BP80.20
Single parts	**Pcs.**	**Weight**	**Article-No.**
Threaded plate, heavy, E M8	6	16.3 g	1.31.6EM8
Collar screw WN 251 M8×20	6	11.8 g	0.63.WN0251.08020

Base angle



Application
For fastening of frames to floor or wall

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



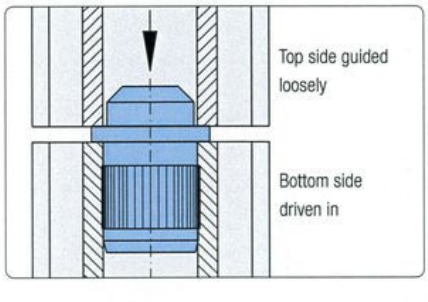
Technical data
material: sheet steel
surface: galvanised and black coated

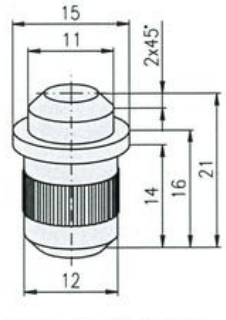
Comments
Picture shows base angle, left
mirror-inverted: base angle, right

Description	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





H F E

Technical data
material: steel
surface: galvanised

Description	Weight	Article-No.
Stacking foot	19 g	1.44.901221

Fundamental - Requirements

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

Load capacity

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

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

Height

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

Wheel diameter

The larger the diameter, the easier obstacles are overcome.

Temperature resistance

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

Electrically conductive

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

Corrosion resistance

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

Mounting

Bolt hole	Simple central screw connection
Plate	Plate with multiple screw connection

Brake

Wheel lock	Prevents the rotation of the wheel
Directional lock	Fixes the running direction of the movement
Total lock	Fixes the rotation and pivotal movement of the wheel
Central braking	Simultaneously fixes multiple castors

Bearing

Bearings	Standard bearings, robust, moisture-resistant
Roller bearing	Standard bearings, robust, smooth running
Precision ball bearing	High performance bearings, for all areas

Floor contact

Soft floors	Harder wheels recommended
Hard floors	Softer wheels recommended

Tread

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

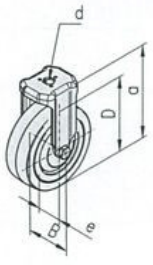
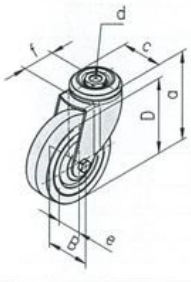
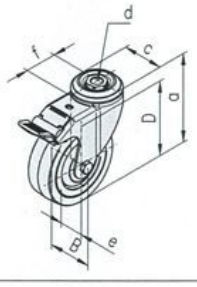
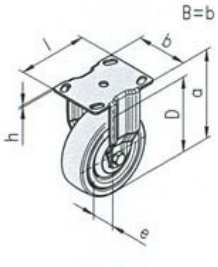
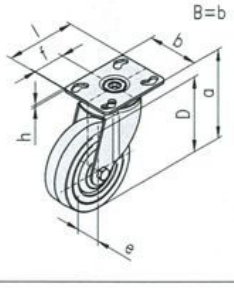
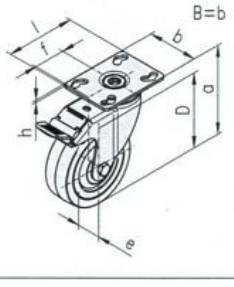
Wear resistance

Flat ground	Lower rolling resistance, abrasion and wear
Uneven ground	Higher rolling resistance, abrasion and wear

1.□□.□□□□□□	**Key**
1.□□.□□□□□□	The Profile System
1.**4 5**.□□□□□□	Castors
1.□□.□□□□□□	Type of castor:
1.□□.**1** □□□□□	Fixed castor
1.□□.**2** □□□□□	Swivel castor
1.□□.**3** □□□□□	Swivel castor, lockable
1.□□.□□□□□□	Fastening: Dimensions ☛ *4.50*
1.□□.□**1** □□□□	Bolt hole
1.□□.□**2** □□□□	Fitting plate
1.□□.□□□□□□	Wheel diameter [mm]:
1.□□.□□**0 5 0** □	Ø50
1.□□.□□**0 7 5** □	Ø75
1.□□.□□**1 0 0** □	Ø100
1.□□.□□**1 2 5** □	Ø125
1.□□.□□□□□□	Conductivity:
1.□□.□□□□□**E**	ESD

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

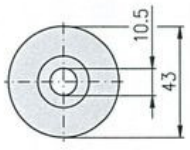
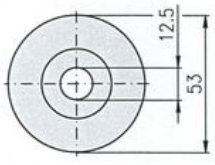
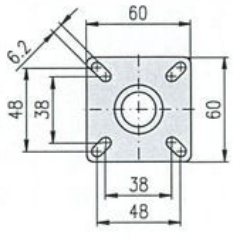
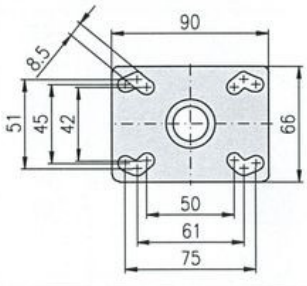
Castor	Description	Series	Wheel-Ø D [mm]	Overall height a [mm]	Load capacity [N]	Weight [g]	Article-No.
	Fixed castor with bolt hole	1A	50	69	400	130	1.45.11050
	Fixed castor with bolt hole	1A	75	98	550	240	1.45.11075
	Fixed castor with bolt hole, ESD	1A	75	98	550	240	1.45.11075E
	Fixed castor with bolt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

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

Castor fastening: Dimensions ☛ *4.50*

Castor fastening

Series 1A

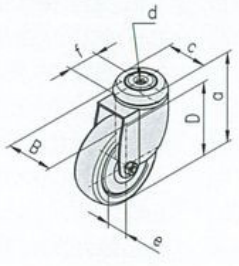
Castor-Ø [mm]	50 / 75	100 / 125
Bolt hole type		
Fitting plate type		

1.□□.□□□□□□□.□□□□	**Key**
1.□□.□□□□□□□.□□□□	The Profile System
1.**4 5**.□□□□□□□.□□□□	Castors
1.□□.□□□□□□□.□□□□	Manufacturer:
1.□□.**2**□□□□□□.□□□□	Series 2
1.□□.□□□□□□□.□□□□	Series / letter
1.□□.□□□□□□□.□□□□	Type of castor:
1.□□.□□**1**□□□□.□□□□	Fixed castor
1.□□.□□**2**□□□□.□□□□	Swivel castor
1.□□.□□**3**□□□□.□□□□	Swivel castor, lockable
1.□□.□□□□□□□.□□□□	Fastening: Dimensions ☛ *4.58*
1.□□.□□□**1**□□□.□□□□	Bolt hole
1.□□.□□□**2**□□□.□□□□	Fitting plate
1.□□.□□□□□□□.□□□□	Wheel diameter [mm]:
1.□□.□□□□**0 5 0**.□□□□	Ø50
1.□□.□□□□**0 7 5**.□□□□	Ø75
1.□□.□□□□**1 0 0**.□□□□	Ø100
1.□□.□□□□**1 2 5**.□□□□	Ø125
1.□□.□□□□**1 5 0**.□□□□	Ø150
1.□□.□□□□**1 6 0**.□□□□	Ø160
1.□□.□□□□**2 0 0**.□□□□	Ø200
1.□□.□□□□□□□.□□□□	Load capacity [N]
1.□□.□□□□□□□.□□□□	ESD:
1.□□.□□□□□□□.□□□**1**	w/o
1.□□.□□□□□□□.□□□**2**	Electrically conductive
1.□□.□□□□□□□.□□□**3**	Antistatic

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

4

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

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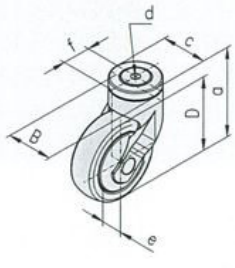
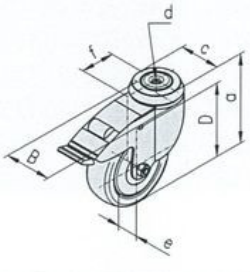
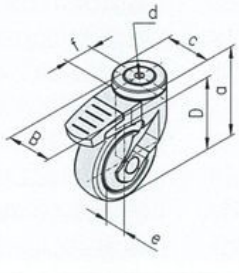
	59	59	11	32	36	172			
	59	59	11	32	36	172			
	59	59	11	32	38	201			
	59	59	11	32	38	201			
	59	59	11	32	38	226			
	43	41	11	18	24	164			
	43	43	11	25	24	160			
	60	60	11	32	38	262			
	60	60	11	32	38	262			
	60	60	11	32	41	262			
	60	60	11	32	41	262			
	60	60	11	32	45	262			
	60	60	11	32	45	262			
	59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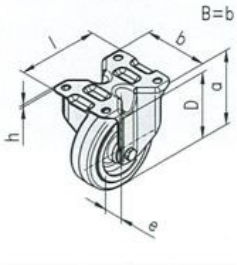
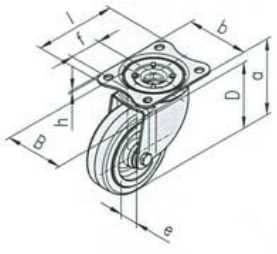
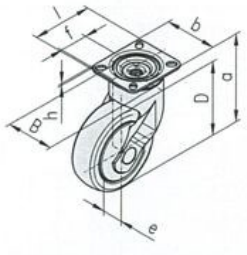
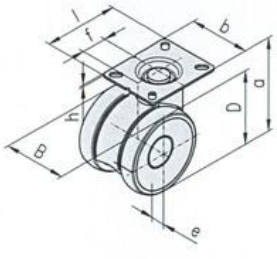
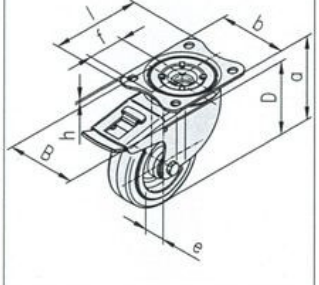
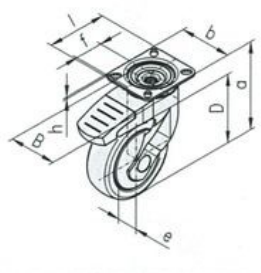
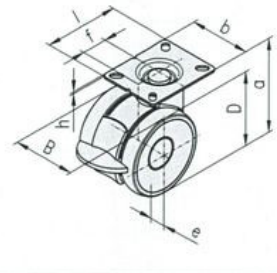
	85			34			103 × 85 × 2	80/77 × 60	9.0
	85			30			103 × 85 × 2	80/77 × 60	9.0
	85			40			103 × 85 × 2	80/77 × 60	9.0
	85			37			103 × 85 × 2	80/77 × 60	9.0
	115			46			137 × 115 × 3	105 × 80/75	11.0
	115			40			137 × 115 × 3	105 × 80/75	11.0
	115			46			137 × 115 × 3	105 × 80/75	11.0
	115			50			137 ×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

Castor fastening: Dimensions ☛ *4.58*

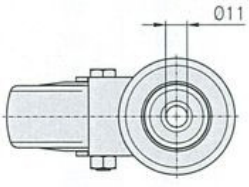
Castor	Description	Series	Wheel-Ø D [mm]	Overall height a [mm]	Load capacity [N]	Weight [g]	Article-No.
	Swivel castor with fitting plate	2B	100	128	1,600	810	1.45.2B22100.1601
	Swivel castor with fitting plate, ESD	2B	100	128	700	875	1.45.2B22100.0702
	Swivel castor with fitting plate	2B	125	155	2,500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

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

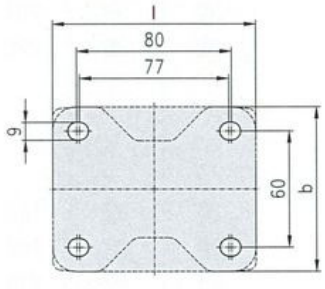
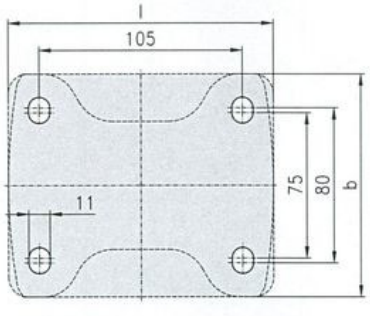
Castor fastening: Dimensions ☛ *4.58*

Castor fastening

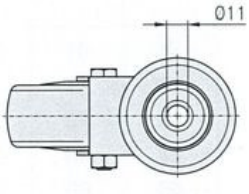
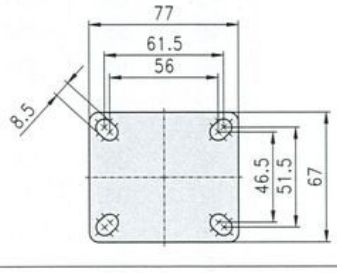
Series 2A

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

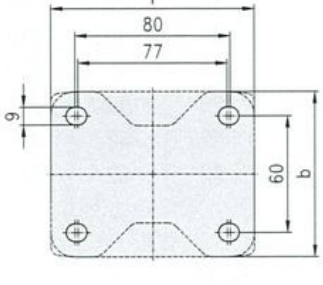
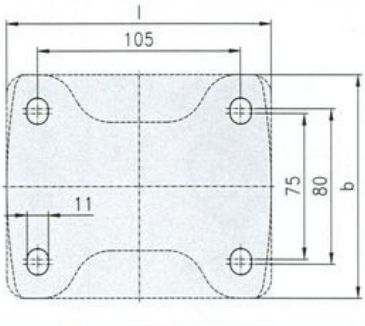
Series 2B

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

Series 2C

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

Series 2D

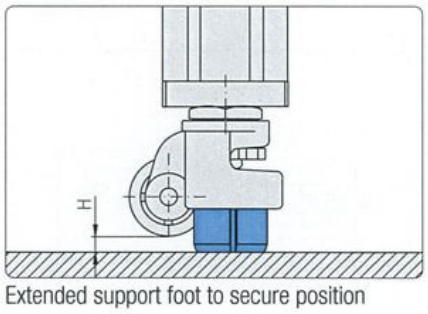
Castor-Ø [mm]	100 / 125	150
Fitting plate type		

Locking castors

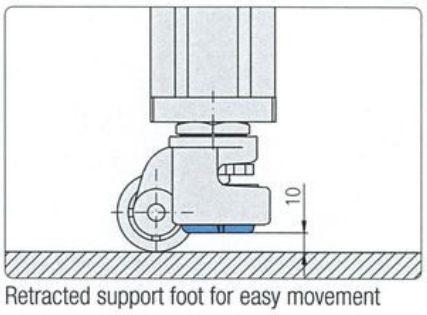
Application
Locking castors for easy movement and positioning of trolleys, benches and assemblies

Technical data
material:
- capsule: Al
- fastening elements: C45
- locking foot: GD-Al, rubber

max. static load: F_{max}



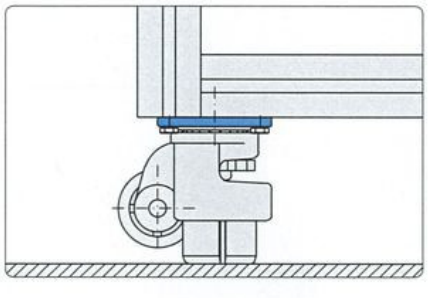
Extended support foot to secure position

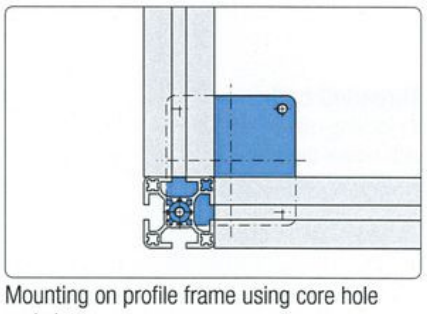


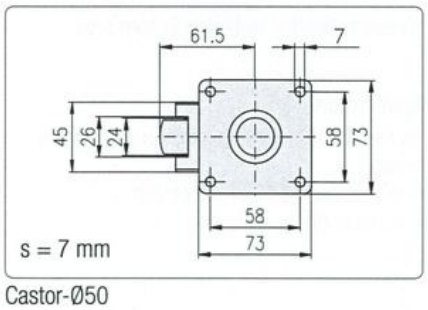
Retracted support foot for easy movement

Design					
D	a	b_{max}	c	H_{max}	F_{max}
Ø50	84	90	98	6	2,500 N
Ø63	104	114	120	10	5,000 N

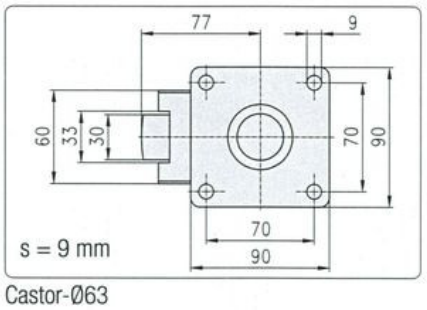
Locking castors
with plate



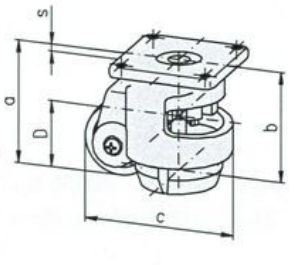

Mounting on profile frame using core hole and slot



Castor-Ø50

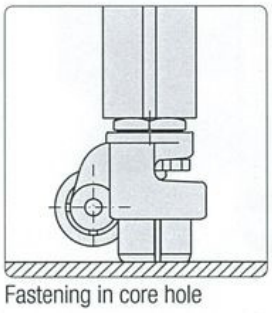


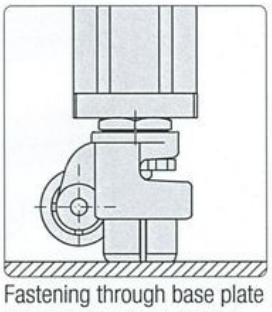
Castor-Ø63

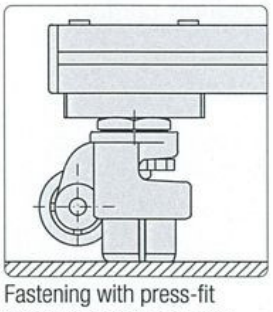


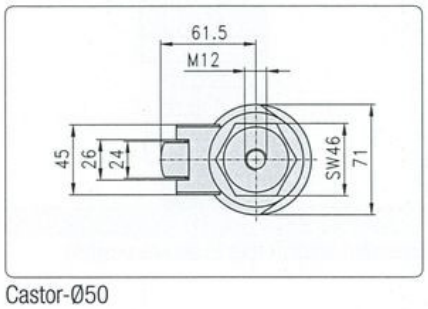
Description	D	Weight	Article-No.
Locking castor 250 kg, with plate	Ø50	700 g	1.45.80200.073
Locking castor 500 kg, with plate	Ø63	1,300 g	1.45.80400.090

Locking castors
with center thread

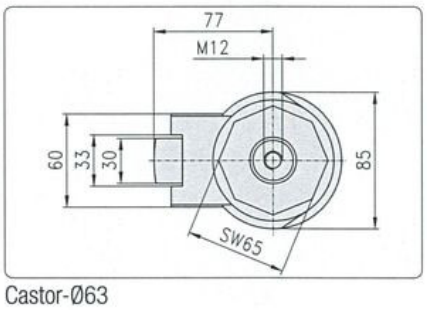

Fastening in core hole


Fastening through base plate for profiles without central core hole

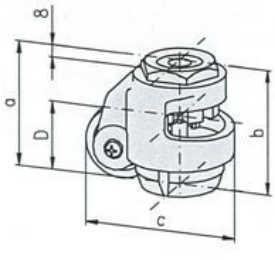

Fastening with press-fit threaded insert and base plate across the profile



Castor-Ø50

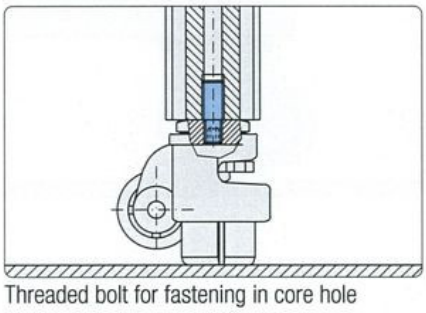


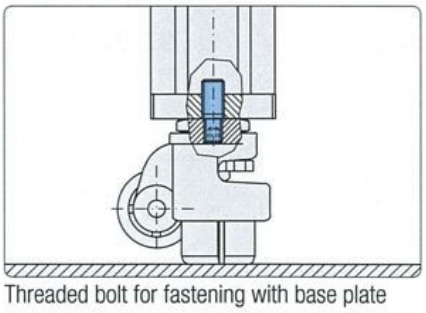
Castor-Ø63



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

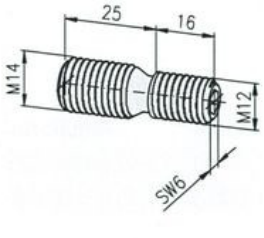
Threaded bolt
for locking castor with center thread


Threaded bolt for fastening in core hole


Threaded bolt for fastening with base plate

Application
For fastening of locking castors with central thread
- in core hole-Ø12 of the profile
- on base plate

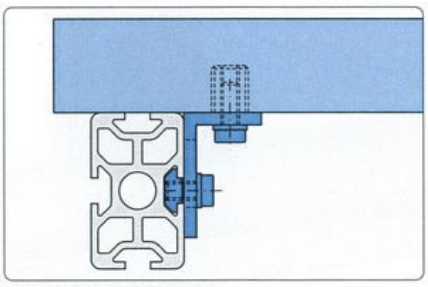
Technical data
material: steel
surface: galvanised



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

Angles 25×40

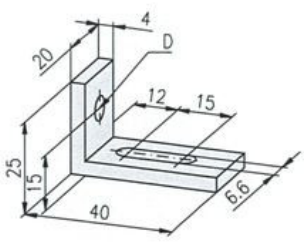
Fastening of panels



Fastening of table tops

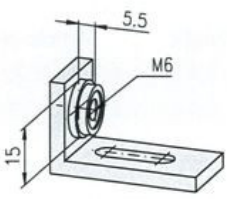
Application
Angle bracket for the mounting of panels, table tops, switches and accessories

Technical data
material: aluminium
strength: F22
surface: natural anodised



Comments
Design with clearance hole drilling

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



Comments
Design with nut M6 ± 0.5 mm floating in cage

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

4

Angles PA

Support of free-standing profiles

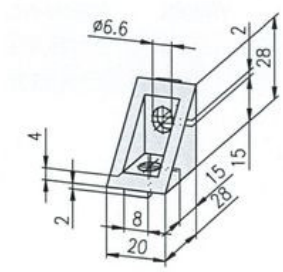
Application
For supporting of profiles and mounting of cover panels

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

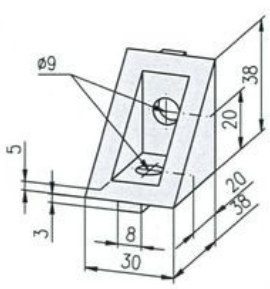
20×28



H F E

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



H F E

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

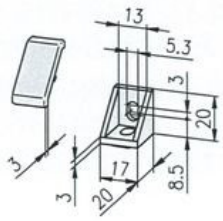
For mounting cross to the slot the noses can be broken off

Technical data
material:
- angle: GD-Zn
- cover cap: PA-GK 30
- T-slot nut: steel, galvanised
- screw: steel, galvanised

surface: natural or aluminium coloured powder-coated

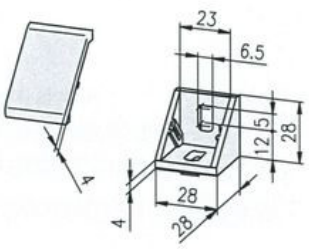
□
1 angle natural
2 angle powder-coated

17×20



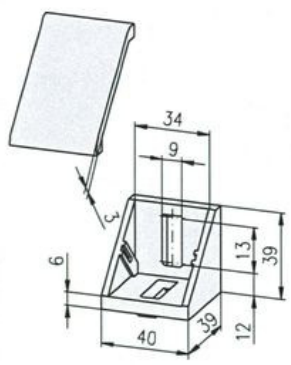
Description	Surface	Weight	Article-No.
Angle GD-Zn, 17×20	natural	13.7 g	1.46.204.1720.1
Angle GD-Zn, 17×20	powder-coated	13.7 g	1.46.204.1720.2
Cover cap for angle GD-Zn, 17×20		1.7 g	1.46.204.1720A
Angle connection set	1720 H/H	20.9 g	1.46.204.1720.□HH
Angle connection set	1720 H/F	23.6 g	1.46.204.1720.□HF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

28×28



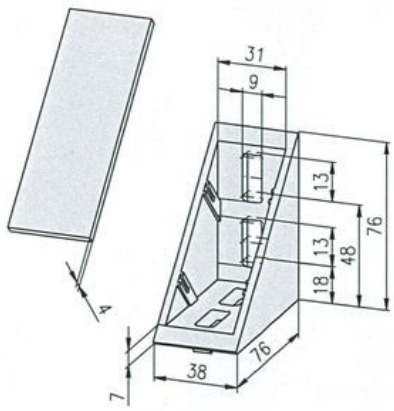
Description	Surface	Weight	Article-No.
Angle GD-Zn, 28×28	natural	39.6 g	1.46.204.2828.1
Angle GD-Zn, 28×28	powder-coated	39.6 g	1.46.204.2828.2
Cover cap for angle GD-Zn, 28×28		5.6 g	1.46.204.2828A
Angle connection set	2828 F/F	56.4 g	1.46.204.2828.□FF
Angle connection set	2828 F/E	56.8 g	1.46.204.2828.□FE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

40×39



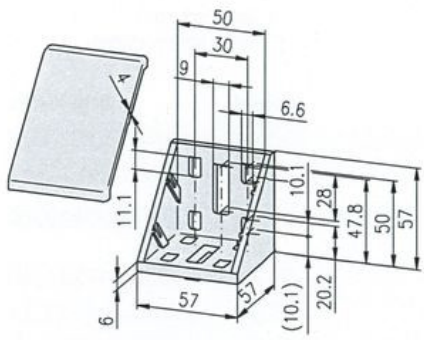
Description	Surface	Weight	Article-No.
Angle GD-Zn, 40×39	natural	85.5 g	1.46.204.4039.1
Angle GD-Zn, 40×39	powder-coated	85.5 g	1.46.204.4039.2
Cover cap for angle GD-Zn, 40×39		8.0 g	1.46.204.4039A
Angle connection set	4039 F/F	105.9 g	1.46.204.4039.□FF
Angle connection set	4039 F/E	111.9 g	1.46.204.4039.□FE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

38×76



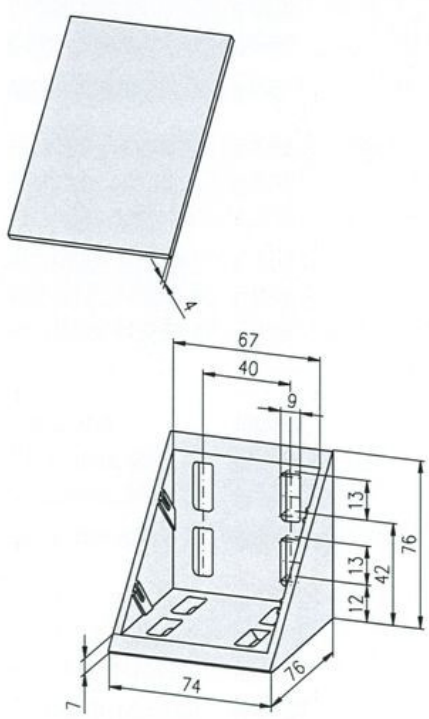
Description	Surface	Weight	Article-No.
Angle GD-Zn, 38×76	natural	273.0 g	1.46.204.3876.1
Angle GD-Zn, 38×76	powder-coated	273.0 g	1.46.204.3876.2
Cover cap for angle GD-Zn, 38×76		16.8 g	1.46.204.3876A
Angle connection set	3876 F/F	334.2 g	1.46.204.3876.□FF
Angle connection set	3876 F/E	342.2 g	1.46.204.3876.□FE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

57×57



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

74×76



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

Single Parts: Angle connection sets

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

□
1 angle natural
2 angle powder-coated

⚠ Connection with T-screw only without cover cap

4

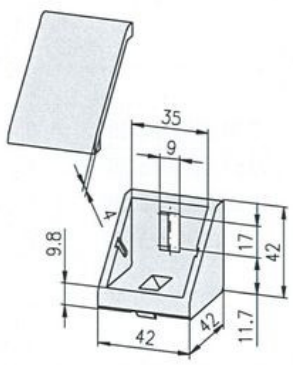
Angles GD-Al

Application
For supporting profiles and mounting various machine components

Technical data
material:
- angle: GD-Al
- cover cap: PA GK 30
  - nut: steel, galvanised
  - screw: steel, galvanised

surface: natural

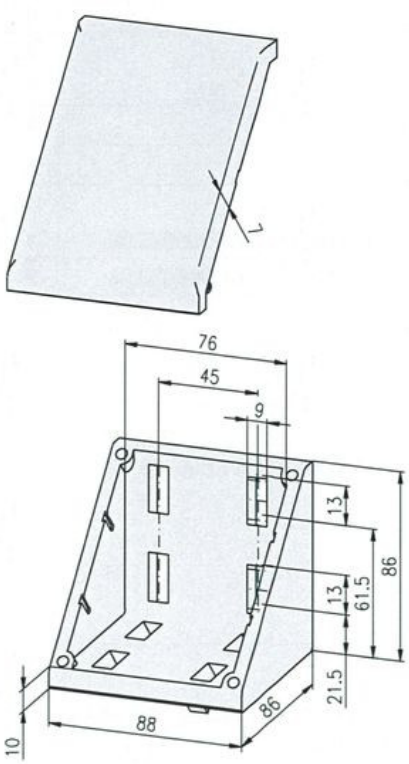
42×42



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

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

88×86



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

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

Angles Alu

Mounting of cover panels

Application
For supporting of profiles and mounting of cover panels

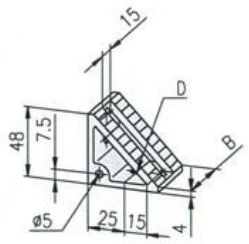
Support across the profile

Support of free-standing profiles

Technical data
material: aluminium
strength: F25
surface: natural anodised

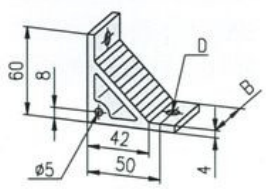
Comments
raw finish on request

48×48



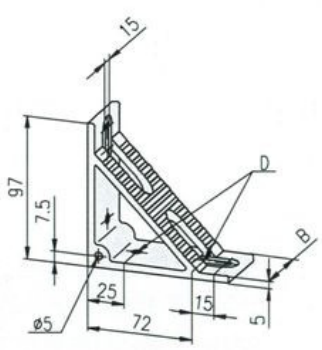
Description	D	B	Weight	Article-No.
Angle 48×48	Ø6.6	30	40 g	1.46.20536
Angle 48×48	Ø9.0	30	38 g	1.46.20539
Angle 48×48	Ø6.6	45	66 g	1.46.20546
Angle 48×48	Ø9.0	45	64 g	1.46.20549

60×60



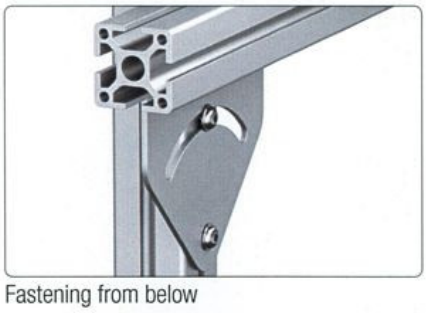
Description	D	B	Weight	Article-No.
Angle 60×60	Ø9.0	30	49 g	1.46.20639
Angle 60×60	Ø9.0	45	74 g	1.46.20649

97×97



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

Swivel angles



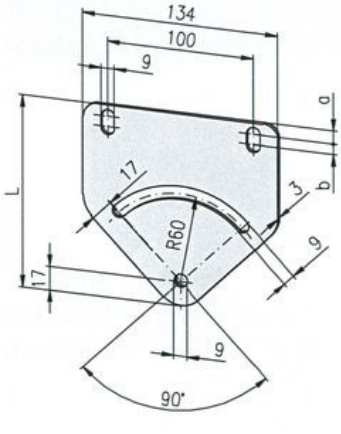
Fastening from below

Fastening from the side

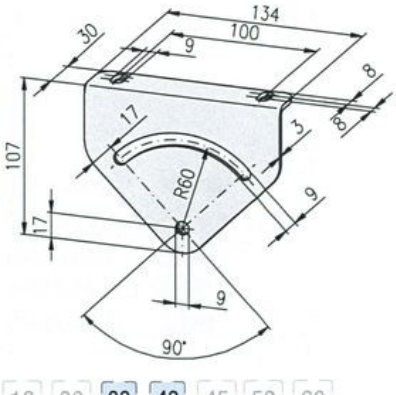
Application
Infinitely variable adjusting of inclination with swivel angle

Technical data
Design alu:
- material: aluminium
- strength: F22
- surface: natural anodised

Design steel:
- material: steel
- surface: galvanised

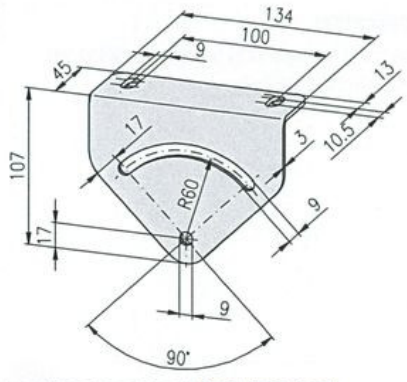


Description	L	Design	a	b	Weight	Article-No.
Swivel angle	131	alu	8	8.0	105 g	1.46.3013100.AL
Swivel angle	146	alu	13	10.5	116 g	1.46.3014600.AL
Swivel angle	131	steel	8	8.0	320 g	1.46.3013100.ST
Swivel angle	146	steel	13	10.5	360 g	1.46.3014600.ST



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

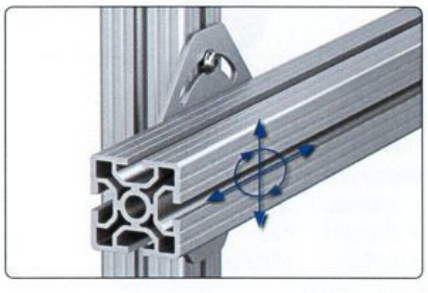
16 20 **30** **40** 45 50 60

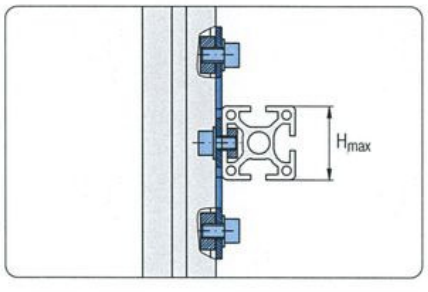


16 20 30 40 45 50 60

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

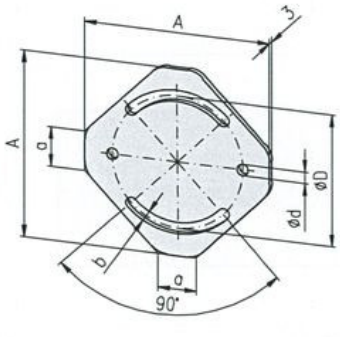
Cross connection plates





Application
The cross connection plate allows profile adjustment in 2 directions and at an angle of ±45°

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

4

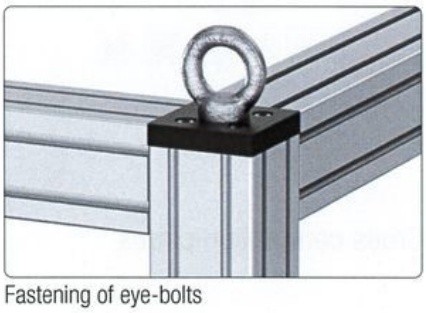
Base plates

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

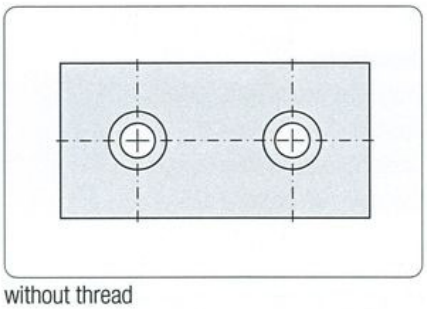
Design GD-Zn:
- material: GD-Zn
- surface: black powder-coated

Accessories
- threaded insert
- cap-screw DIN 912

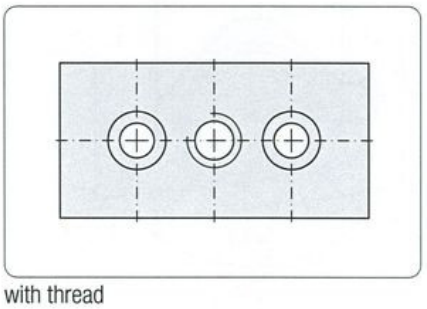
Comments

Counterbore DIN 74 for cap-screw DIN 912

Variants



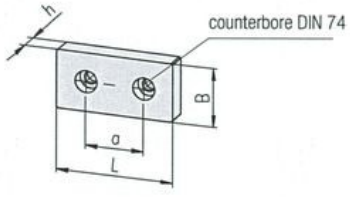
without thread



with thread

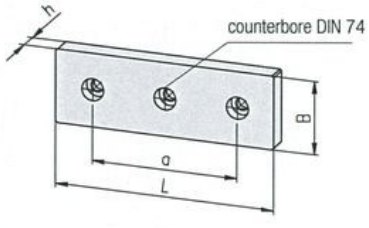
Dimensions	without thread			with thread M14		
B×L	Design	h	Article-No.	Design	h	Article-No.
30×60	Alu	15	1.47.2030060.0600.1	GD-Zn	12	1.47.20306
40×80	Alu	15	1.47.2040080.0800.1	GD-Zn	16	1.47.20408
45×90	Alu	15	1.47.2045090.0800.1	GD-Zn	16	1.47.2045090
50×100	Alu	15	1.47.2050100.0800.1	GD-Zn	16	1.47.20510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

Base plates
without thread



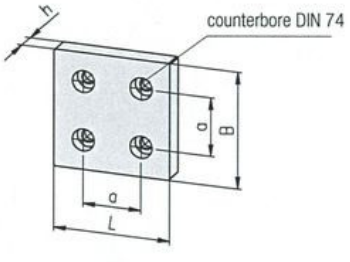
16 20 **30** **40** **45** **50** 60

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

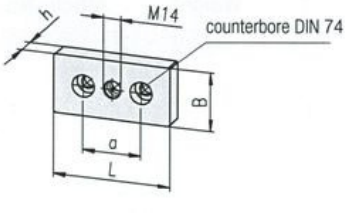
Description	B×L	Design	DIN 74	h	a	Weight	Article-No.
Base plate w/o thread	50×150	Alu	- Km8	15	100	280 g	1.47.2050150.0800.1



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

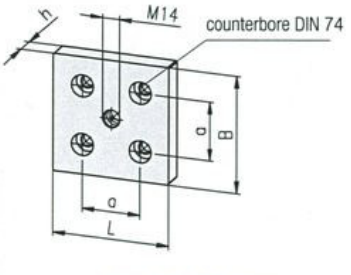
Description	B×L	Design	DIN 74	h	a	Weight	Article-No.
Base plate w/o thread	60×60	Alu	- Km8	15	30	115 g	1.47.2060060.0800.1
Base plate w/o thread	80×80	Alu	- Km8	15	40	228 g	1.47.2080080.0800.1
Base plate w/o thread	90×90	Alu	- Km8	15	45	297 g	1.47.2090090.0800.1
Base plate w/o thread	100×100	Alu	- Km8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

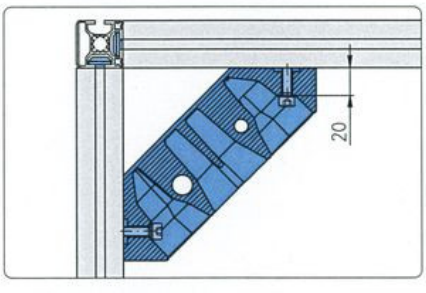


16 20 **30** **40** **45** **50** 60

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

4

Floor mounting plate

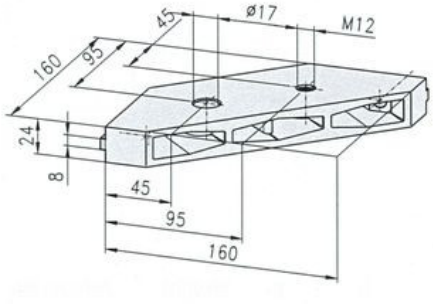


Application
For fastening and manual levelling of profile racks and frames

Technical data
material: aluminium
surface: black powder-coated

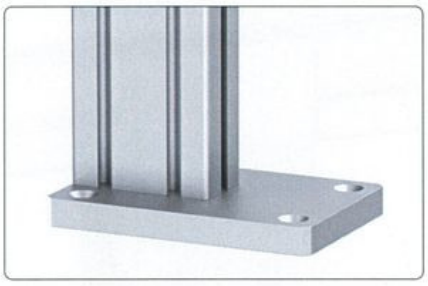
Fastening elements

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

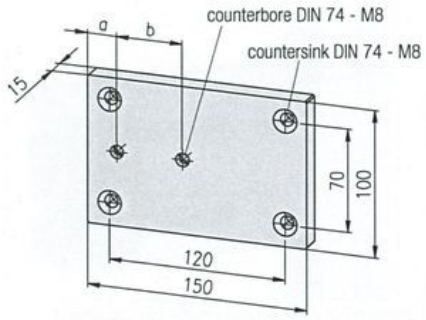


Description	Weight	Article-No.
Floor mounting plate, black powder-coated	622 g	1.47.225160.2

Mounting plates



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



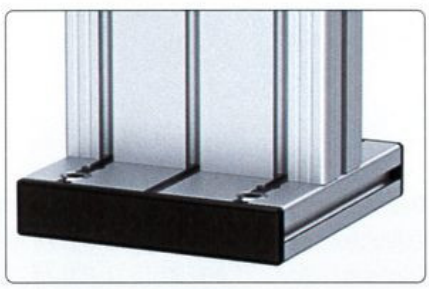
16 20 **30** **40** 45 **50** 60

Technical data
material: aluminium
strength: F22
surface: natural anodised

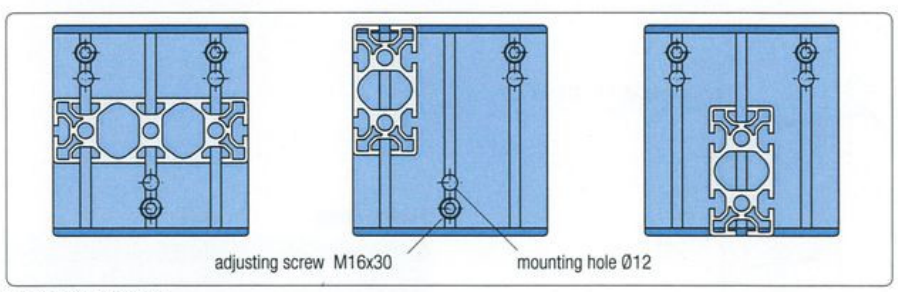
Comments
Counterbore DIN 74 - M8 for cap-screw DIN 912 - M8
Countersink DIN 74 - M8 for countersunk screw DIN 7991 - M8

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

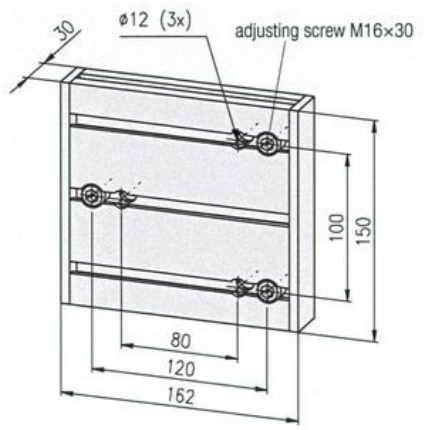
Floor plate



Application
For fastening and adjusting of vertical profiles to floor and wall



Fastening variants



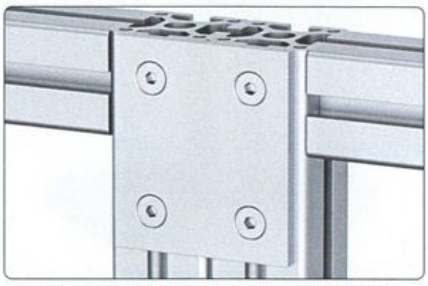
16 20 **30** **40** 45 **50** 60

Technical data
aluminium profile: anodised
cover caps: PA-GF black

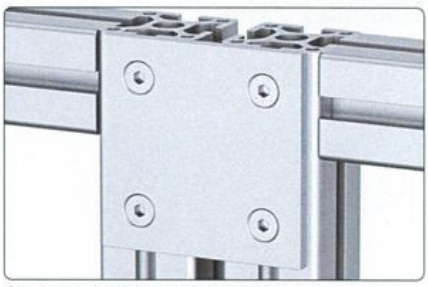
Delivery unit:
- 1 profile 30×150×150
- 2 cover caps
- 3 set screws M16×30

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

Connection plates



Flush connection of 2 profiles without gap



Connection of 2 profiles with gap

Fastening of the electrical trunking

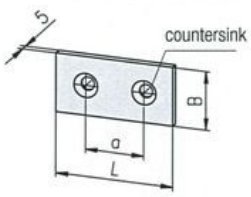
Connection of the pneumatic air manifold

Application

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

Technical data

material: aluminium
strength: F22
surface: natural anodised

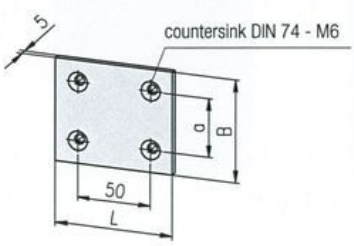


16 20 **30** **40** **45** 50 60

Comments

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

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



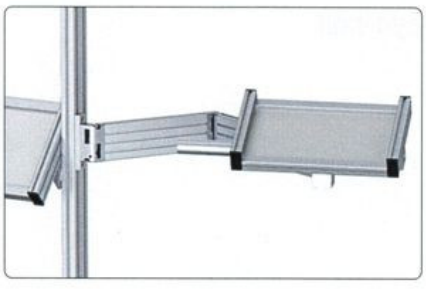
16 20 **30** **40** **45** **50** 60

Comments

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

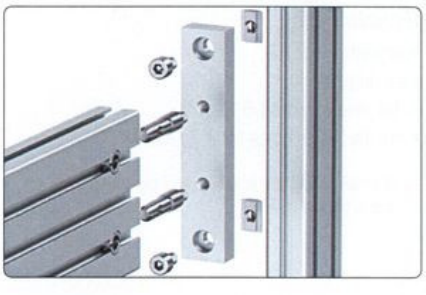
Description	B×L	a	Weight	Article-No.
Connection plate	50×80	30	50 g	1.47.50508
Connection plate	70×80	40	69 g	1.47.50708
Connection plate	75×80	45	76 g	1.47.50758
Connection plate	80×80	50	81 g	1.47.50808

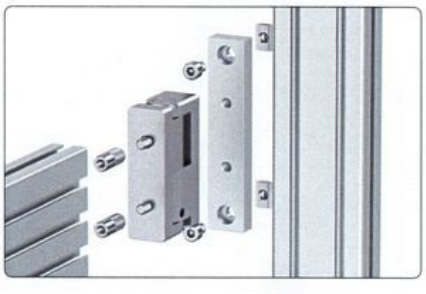
Fastening plate
30×150



Fastening of profile 30×100

Fastening of profile 30×100 with joint 30×100





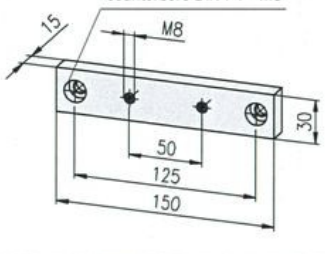
Application
Fastening plate to increase the carrying capacity of detached bracket or swivel arm
- for profile 30×100
- for joint 30×100

Technical data
material: aluminium
strength: F22
surface: natural anodised

4

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 for cap-screw DIN 6912 - M8

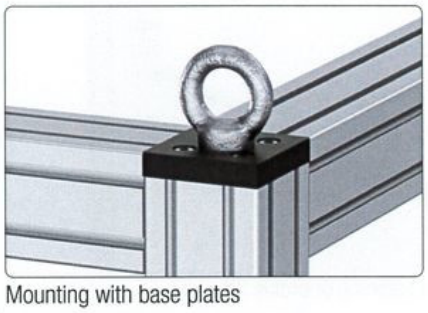


16 20 **30** 40 45 50 60

Description	Weight	Article-No.
Fastening plate 30×150	228 g	1.47.60315

Eye-bolt

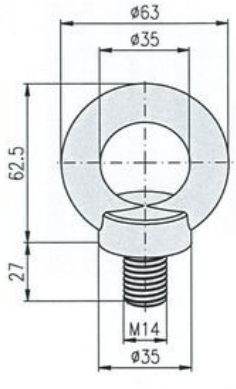
Mounting directly in the profile (core hole)



Mounting with base plates

Application

Eye-bolts for the transfer of frames and complete equipment



H F E

Technical data

material: C 15

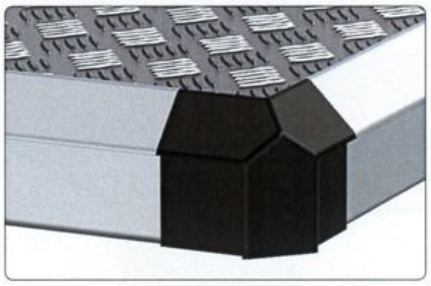
max. load [1]:

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

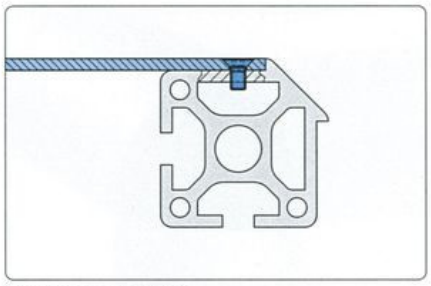
1) The max. load given is valid only if the eye-bolt face is tightened firmly

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

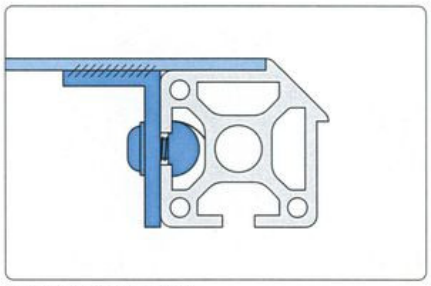
Corner pieces



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

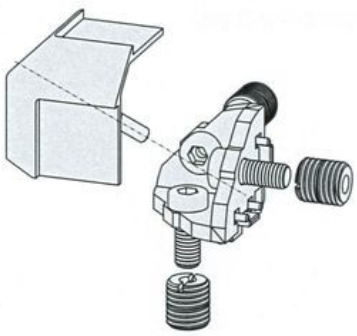


Assembly possibility

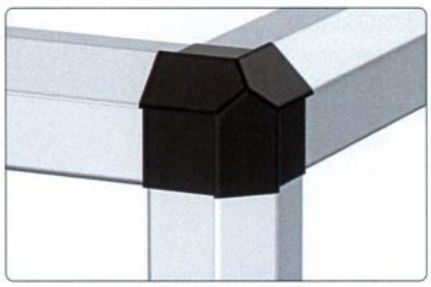


Assembly possibility

Corner angle



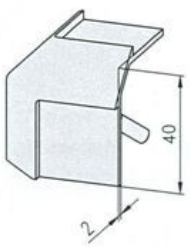
16 20 30 **40** 45 50 60



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

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

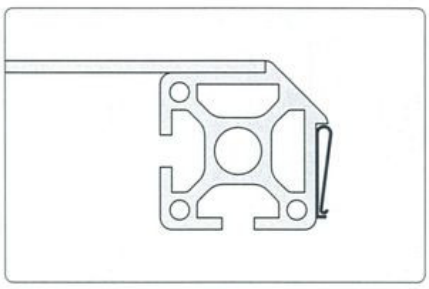
Description	Weight	Article-No.
Corner piece set angle PA	133.0 g	1.48.14340



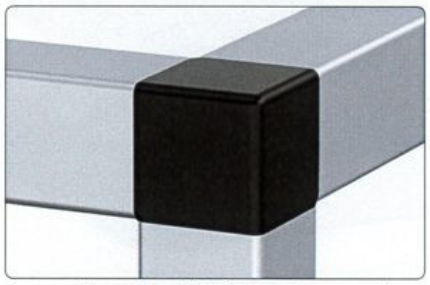
Description	Weight	Article-No.
Corner piece cover cap, angle PA	12.5 g	1.48.14342

Label bar

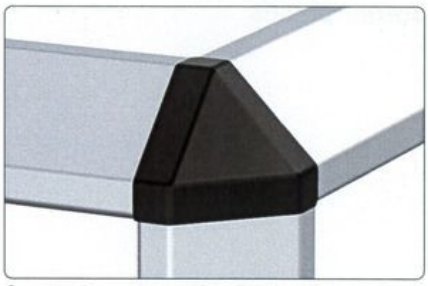
Recess can also be used for label bars / label strips



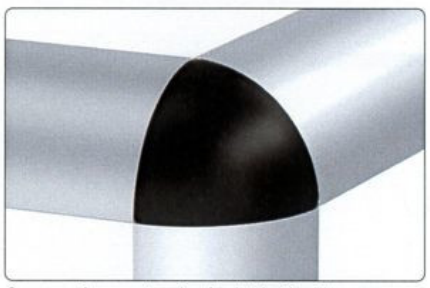
Corner pieces



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

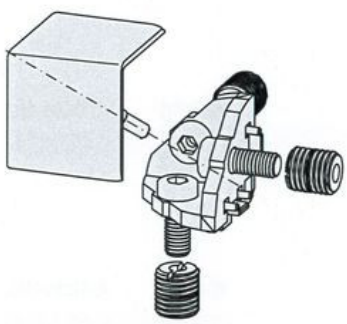
Technical data

- 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

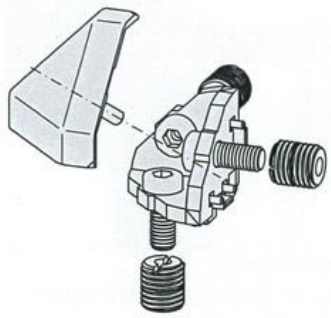


16 20 30 **40** 45 50 60

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

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

45°

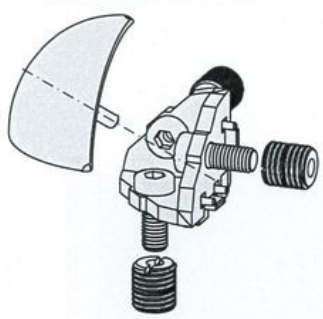


16 20 30 40 45 50 60

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

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

Spherical



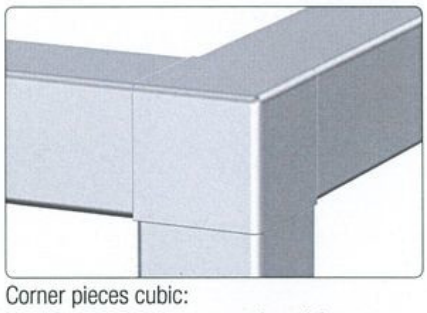
16 20 30 40 45 50 60

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

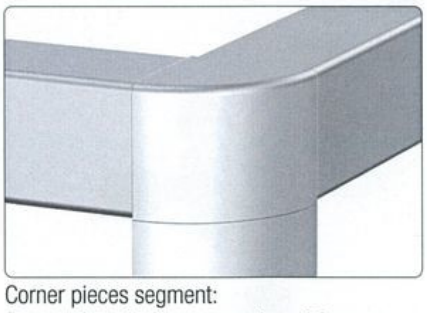
Description	Weight	Article-No.
Corner piece cover cap, spherical PA	8.5 g	1.48.14482

4

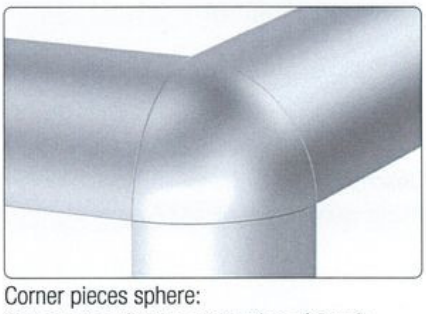
Corner pieces



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



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



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

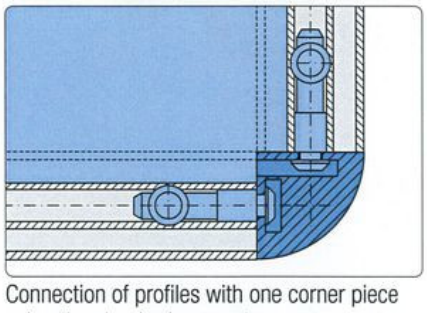
Technical data

material: aluminium
strength: F22
surface: natural anodised

General

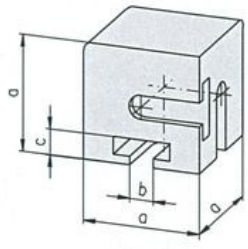
The attractive corner pieces are made of solid aluminium and guarantee the entire connection stability

Connection with corner pieces



Connection of profiles with one corner piece using the standard connector

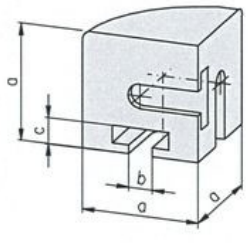
Corner pieces cubic



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

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

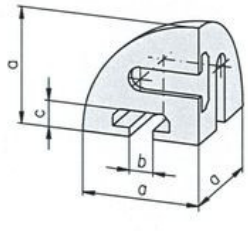
Corner pieces segment



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

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

Corner pieces sphere



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

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

1.5 Pneumatic accessories

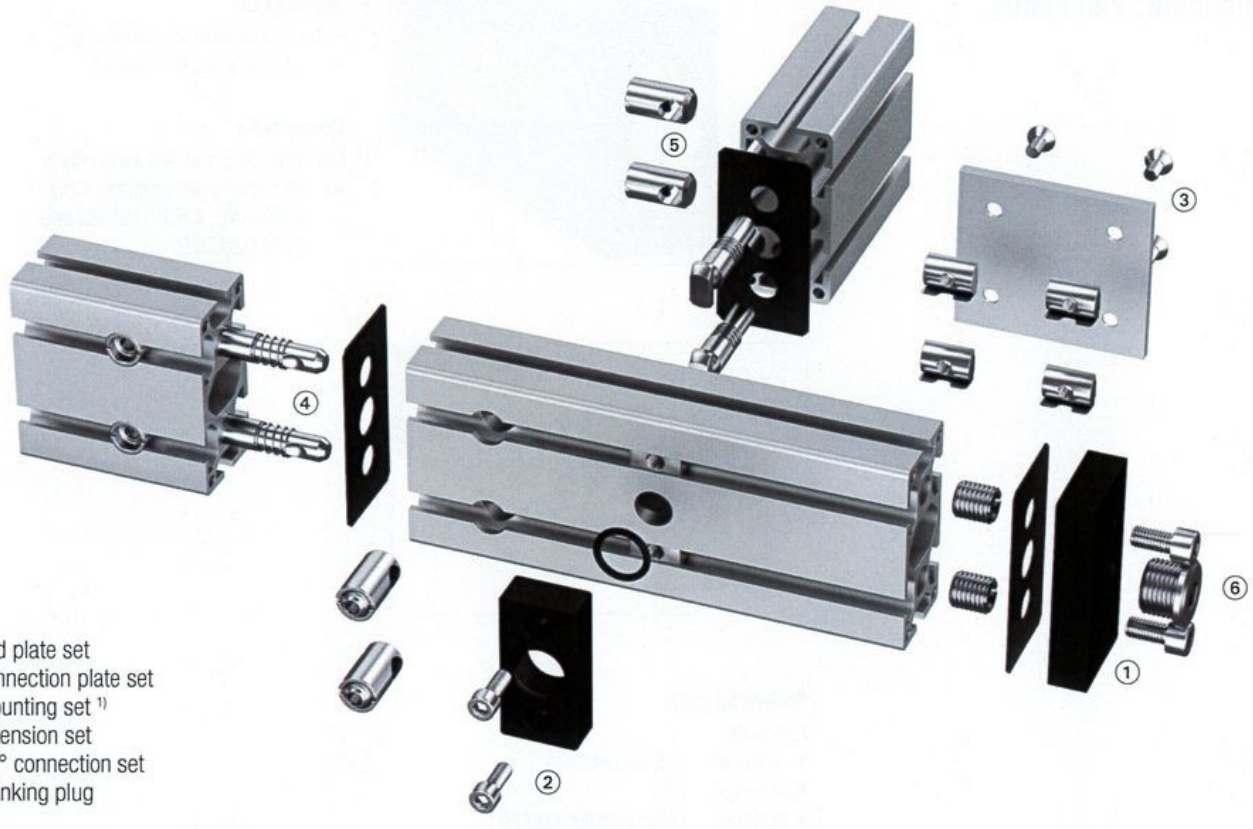
Pneumatic
end plates
☛ *5.04 - 5.08*

Pneumatic
connection plates
☛ *5.09*

Pneumatic
extension sets
☛ *5.10*

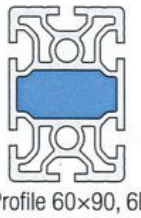
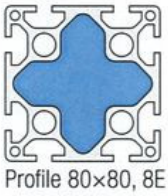
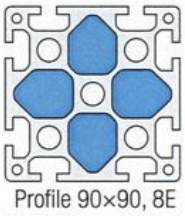
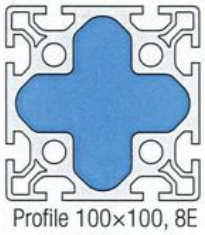
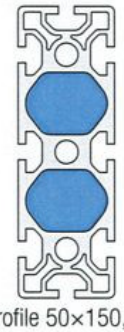
Pneumatic-90°
connection sets
☛ *5.11 - 5.12*

Pneumatic
accessories
☛ *5.12*



[1] for mounting set ☛ *connection plate 1.47.50...*

Profiles for pneumatic applications

PG 30	PG 40	PG 45	PG 50	PG 60
Profile 30×60, 6F [2] 299.8 mm²	Profile 40×80, 6E [2] 521.8 mm²	Profile 45×90, 6E [2] 816.2 mm²	Profile 50×100, 6E [2] 1,043.3 mm²	 Profile 60×90, 6E [2] 1,203.0 mm²
	 Profile 80×80, 8E [2] 2,454.1 mm²	 Profile 90×90, 8E [2] 635.2 mm² (4×)	 Profile 100×100, 8E [2] 4,080.4 mm²	
	Profile 80×80, 8E, angle [2] 505.7 mm² (2×)		 Profile 50×150, 8E [2] 1,115.8 mm² (2×)	

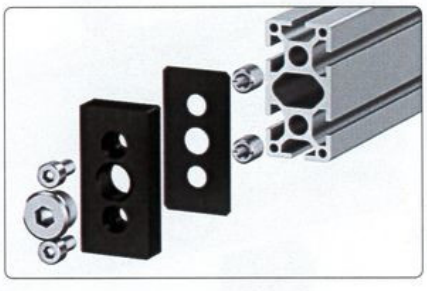
Comments
profiles with closed interior chambers and closed core holes can also be used as pressure line

max. pressure: 10 bar

[2] (pneumatic) cross-sectional area

5

Pneumatic end plates



Application
- for the closing of profile ends
- vent disconnection thread

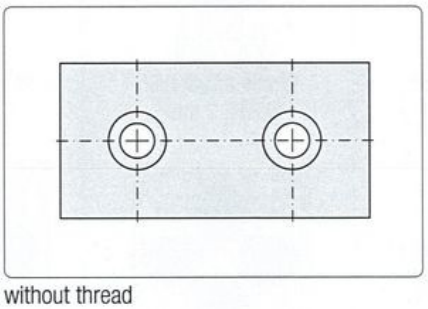
Comments
Blanking plug and reducing nipple
☛ *Pneumatic accessories 1.59 Article-No. 1.59.010□□ and 1.59.020□□*

Technical data
End plate
- material: aluminium
- strength: F22
- surface: black powder-coated

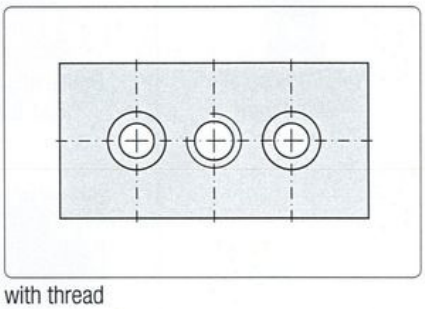
Seal
- material: NBR

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

Variants



without thread

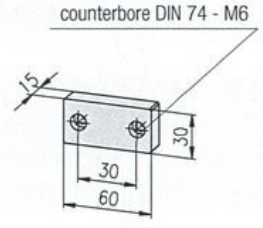


with thread

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

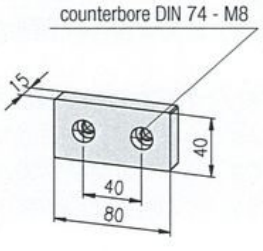
Pneumatic end plate sets
without thread

30×60



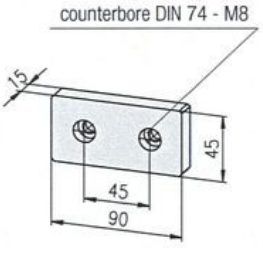
Description		Weight	Article-No.
Pneumatic end plate set w/o thread 30×60		121 g	1.50.2030060.0600.0
Single parts	**Pcs.**		
Base plate w/o thread 30×60	1	64 g	1.47.2030060.0600.1
Pneumatic seal 30×60	1	3 g	1.51.13062
Threaded insert M14/M6	2	22 g	1.35.1140615
Cap-screw DIN 912 - M6×16	2	5 g	0.63.D00912.06016

40×80



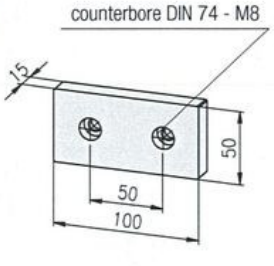
Description		Weight	Article-No.
Pneumatic end plate set w/o thread 40×80		173 g	1.50.2040080.0800.0
Single parts	**Pcs.**		
Base plate w/o thread 40×80	1	114 g	1.47.2040080.0800.1
Pneumatic seal 40×80	1	5 g	1.51.14082
Threaded insert M14/M8	2	18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g	0.63.D00912.08016

45×90



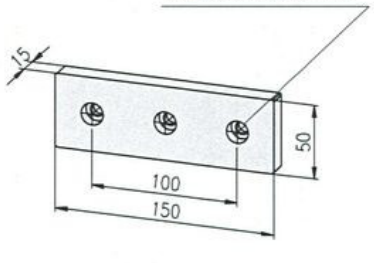
Description		Weight	Article-No.
Pneumatic end plate set w/o thread 45×90		208 g	1.50.2045090.0800.0
Single parts	**Pcs.**		
Base plate w/o thread 45×90	1	148 g	1.47.2045090.0800.1
Pneumatic seal 45×90	1	6 g	1.51.14592
Threaded insert M14/M8	2	18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g	0.63.D00912.08016

50×100



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

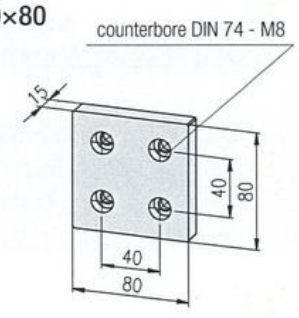
50×150



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

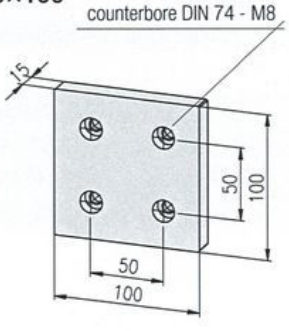
Pneumatic end plate sets
without thread

80×80



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

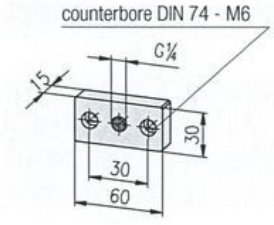
100×100



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

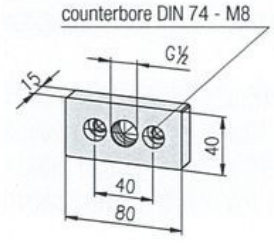
Pneumatic end plate sets
with thread

30×60



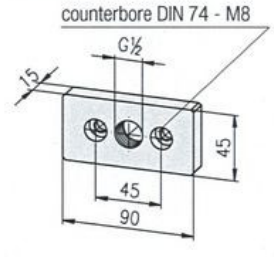
Description		Weight	Article-No.
Pneumatic end plate set 30×60		110 g	1.51.13060
Single parts	**Pcs.**		
Pneumatic end plate 30×60	1	53 g	1.51.13061
Pneumatic seal 30×60	1	3 g	1.51.13062
Threaded insert M14/M6	2	22 g	1.35.1140615
Cap-screw DIN 912 - M6×16	2	5 g	0.63.D00912.06016

40×80



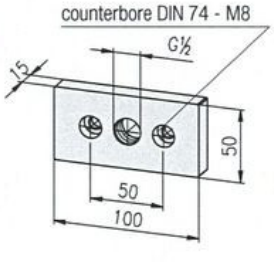
Description		Weight	Article-No.
Pneumatic end plate set 40×80		153 g	1.51.14080
Single parts	**Pcs.**		
Pneumatic end plate 40×80	1	94 g	1.51.14081
Pneumatic seal 40×80	1	5 g	1.51.14082
Threaded insert M14/M8	2	18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g	0.63.D00912.08016

45×90



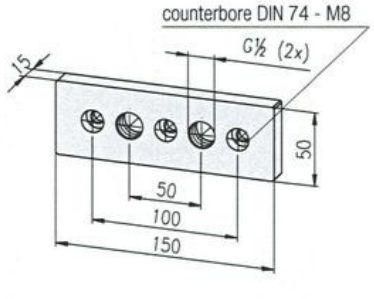
Description		Weight	Article-No.
Pneumatic end plate set 45×90		179 g	1.51.14590
Single parts	**Pcs.**		
Pneumatic end plate 45×90	1	119 g	1.51.14591
Pneumatic seal 45×90	1	6 g	1.51.14592
Threaded insert M14/M8	2	18 g	1.35.1140815
Cap-screw DIN 912 - M8×16	2	9 g	0.63.D00912.08016

50×100



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

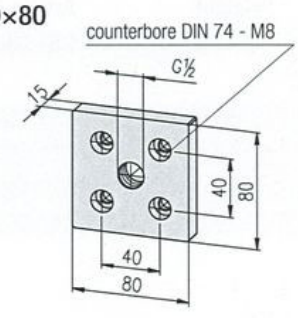
50×150



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

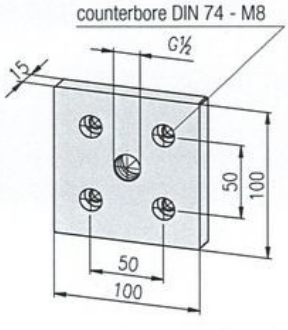
Pneumatic end plate sets
with thread

80×80



Description		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

100×100



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

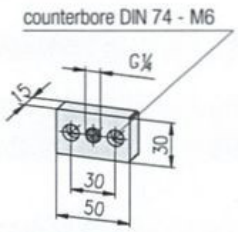
Application
Pneumatic connection for inlet and exhaust of air pressure

Technical data
End plate
- material: aluminium
- strength: F22
- surface: black powder-coated

O-Ring
- material: NBR

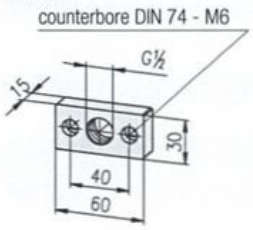
Comments
Counterbore DIN 74 - M6 / M8 for cap-screw DIN 912 - M6 / M8

30×60



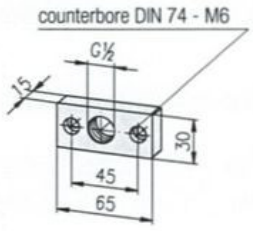
Description		Weight	Article-No.
Pneumatic connection plate set 30×60		59.2 g	1.52.03061
Single parts	**Pcs.**		
Pneumatic connection plate for 30×60	1	40.0 g	1.52.03062
O-Ring 14×3	1	0.6 g	1.59.11403
T-Nut for subs. insertion F, M6	2	4.3 g	1.32.4FM6
Cap-screw DIN 912 - M6×12	2	5.0 g	0.63.D00912.06012

40×80



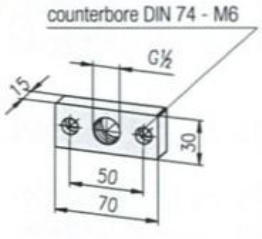
Description		Weight	Article-No.
Pneumatic connection plate set 40×80		80.6 g	1.52.14081
Single parts	**Pcs.**		
Pneumatic connection plate for 40×80	1	50.0 g	1.52.14082
O-Ring 20×3	1	0.6 g	1.59.12003
T-Nut for subs. insertion E, M6	2	10.0 g	1.32.4EM6
Cap-screw DIN 912 - M6×16	2	5.0 g	0.63.D00912.06016

45×90



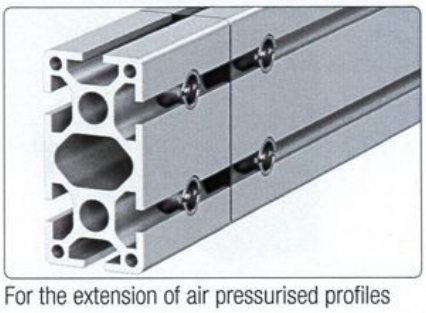
Description		Weight	Article-No.
Pneumatic connection plate set 45×90		84.6 g	1.52.04591
Single parts	**Pcs.**		
Pneumatic connection plate for 45×90	1	5.0 g	1.52.04592
O-Ring 20×3	1	0.6 g	1.59.12003
T-Nut for subs. insertion E, M6	2	10.0 g	1.32.4EM6
Cap-screw DIN 912 - M6×16	2	5.0 g	0.63.D00912.06016

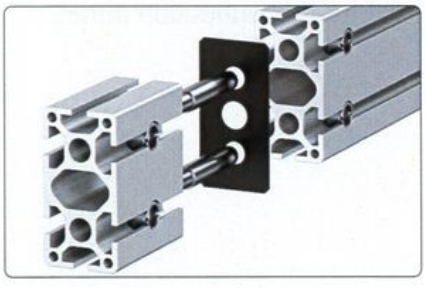
50×100



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

Pneumatic extension sets

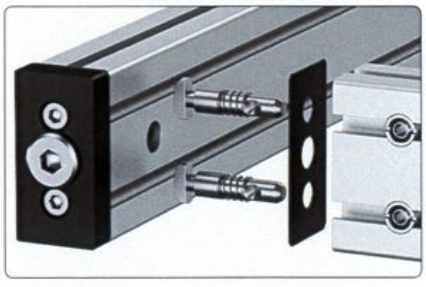




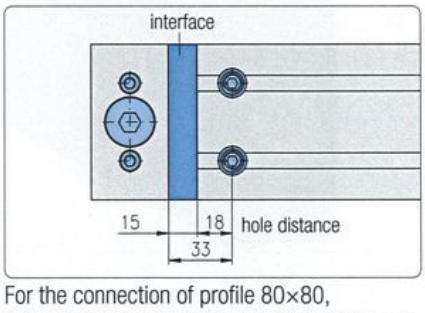
For the extension of air pressurised profiles

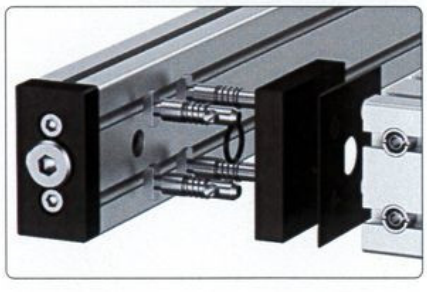
	Description	Pcs.	Weight	Article-No.
for profile 30×60	Pneumatic extension set 30×60		177 g	1.54.03061
	Single parts			
	Pneumatic seal 30×60	1	3 g	1.51.13062
	Connector, profile extension	2	87 g	1.21.3V0
for profile 40×80	Pneumatic extension set 40×80		193 g	1.54.04081
	Single parts			
	Pneumatic seal 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

	Description	Pcs.	Weight	Article-No.
for profile 30×60	Pneumatic 90° connection set 30×60		99 g	1.55.03061
	Single parts			
	Pneumatic seal 30×60	1	3 g	1.51.13062
	Connector, standard 90°	2	48 g	1.21.3F2
for profile 40×80	Pneumatic 90° connection set 40×80		115 g	1.55.04081
	Single parts			
	Pneumatic seal 40×80	1	5 g	1.51.14082
	Connector, standard 90°	2	55 g	1.21.4E2
for profile 45×90	Pneumatic 90° connection set 45×90		63 g	1.55.04591
	Single parts			
	Pneumatic seal 45×90	1	6 g	1.51.14592
	Connector, standard 90°	2	57 g	1.21.45E2
for profile 50×100	Pneumatic 90° connection set 50×100		125 g	1.55.05101
	Single parts			
	Pneumatic seal 50×100	1	7 g	1.51.15102
	Connector, standard 90°	2	59 g	1.21.5E2
for profile 50×150	Pneumatic 90° connection set 50×150		187 g	1.55.05151
	Single parts			
	Pneumatic seal 50×150	1	10 g	1.51.15152
	Connector, standard 90°	3	59 g	1.21.5E2
for profile 60×90	Pneumatic 90° connection set 60×90		70 g	1.55.06091
	Single parts			
	Pneumatic seal 60×90	1	7 g	1.51.16092
	Connector, standard 90°	2	63 g	1.21.6E2
for profile 80×80	Pneumatic 90° connection set 80×80		446 g	1.55.08081
	Single parts			
	Pneumatic seal 80×80	1	8 g	1.51.18082
	Connector, standard 90°	4	55 g	1.21.4E2
	Pneumatic connecting plate	1	217 g	1.55.08084
	O-Ring 20×3	1	0.6 g	1.59.12003

for profile 100×100

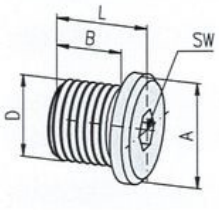
Description	Pcs.	Weight	Article-No.
Pneumatic 90° connection set 100×100		618 g	1.55.10101
Single parts			
Pneumatic seal 100×100	1	12 g	1.51.20102
Connector, standard 90°	4	55 g	1.21.5E2
Pneumatic connecting plate	1	369 g	1.55.10104
O-Ring 20×3	1	0.6 g	1.59.12003

Pneumatic accessories

Application
Blanking plug for the connection thread

Application
Reducing nipple to reduce the connection thread

Blanking plug

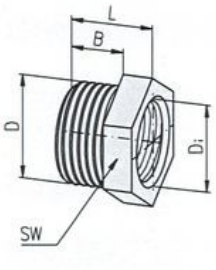


Technical data
material:
- blanking plug: steel, galvanised
- sealing: NBR

Comments
Including sealing

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

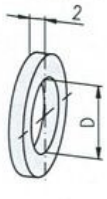
Reducing nipple



Technical data
material: brass

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

Sealing ring
for reducing nipple



Technical data
material: PA, white

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

1.6 Additional accessories

Handles light PA
☛ 6.03

Handle light
☛ 6.03

Handle PA with mounting thread
☛ 6.04

Handles PA
☛ 6.04

Handle PA with mounting thread
☛ 6.05

Handle system round design
☛ 6.06

Handle system oval design
☛ 6.07

Grab handles made of profiles
☛ 6.08

Grab handle profiles
☛ 6.08

Hinges
☛ 6.09, 6.12

Lift-off hinges
☛ 6.10 - 6.11

Double hinge
☛ 6.13

Hinges
☛ 6.14 - 6.18

Alu hinges
☛ 6.19 - 6.20

Alu hinges, heavy
☛ 6.21 - 6.22

Joints
☛ 6.23 - 6.25

Joints with clamping lever
☛ 6.23 - 6.25

Mounting blocks screw-type
☛ 6.26

Mounting block GD-Zn
☛ 6.27

Mounting blocks for subs. insertion
☛ 6.28 - 6.29

Mounting clamp blocks for subs. insertion
☛ 6.30 - 6.32

Quick locks
☛ 6.33 - 6.34

Bullet catches
☛ 6.35

Bullet catch PA
☛ 6.36

Magnetic lock PA
☛ 6.37

Lock
☛ 6.38

Cylinder locks
☛ 6.39

Cylinder locks with security latch
☛ 6.40

Flap-lock countersunk
☛ 6.41

Cylinder locks flush
☛ 6.42 - 6.43

Mortise deadlocks
☛ 6.44 - 6.47

Bar locks
☛ 6.48 - 6.51

Latch lock
☛ 6.52 - 6.53

Rollers
☛ 6.54 - 6.55

Twin track guide
☛ 6.55

Roller fastening sets
☛ 6.56 - 6.59

Mounting adaptor for roller
☛ 6.60

Edge roller
☛ 6.61

Runner for sliding suspended doors
☛ 6.62

Alu-C-track for suspended doors
☛ 6.62

Frame guide for suspended doors
☛ 6.63

Rubber door stop for suspended doors
☛ 6.63

Slot rollers
☛ 6.64

Sliding blocks
☛ 6.66

T-Nut sliding blocks
☛ 6.67

Eco-Slides
☛ 6.68 - 6.71

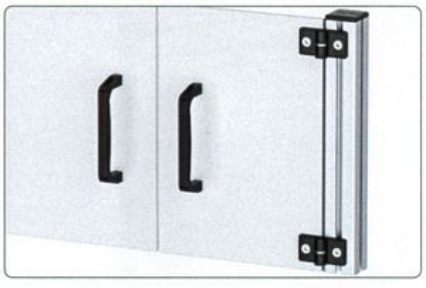
Safety barriers mounting, type 1
☛ 6.72

Safety barriers mounting, type 2
☛ 6.73

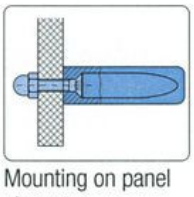
Hanging bracket
☛ 6.76

Suspended glider
☛ 6.79

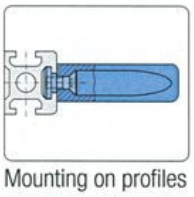
Handles light PA



Application
For doors and drawers of light material

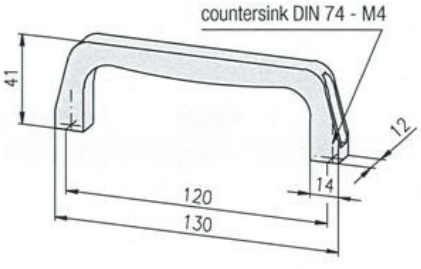


Mounting on panel elements



Mounting on profiles

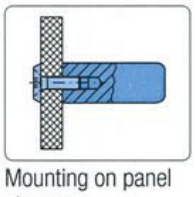
Technical data
material: PA



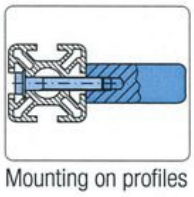
Description	Colour	Weight	Article-No.
Handle light PA	grey	30 g	1.61.20.1
Handle light PA	black	30 g	1.61.20.2

Handle light Alu

Application
For doors and drawers of light material

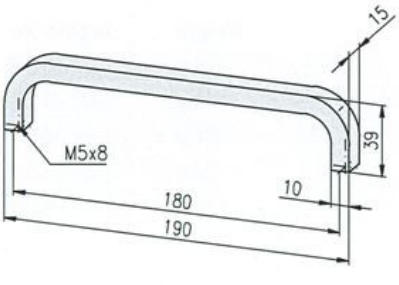


Mounting on panel elements



Mounting on profiles

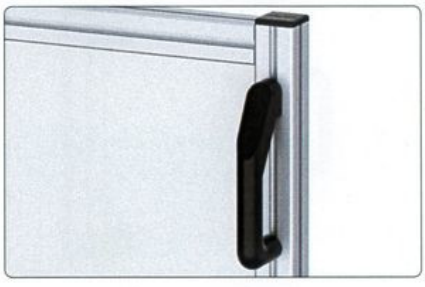
Technical data
material: aluminium
surface: natural anodised



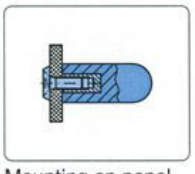
Description	Weight	Article-No.
Handle light Alu	85 g	1.61.210

6

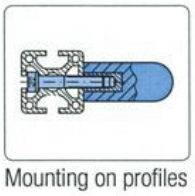
Handle PA



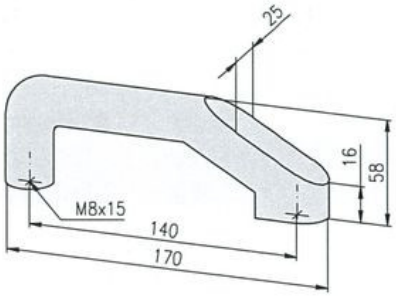
Application
Ergonomical designed handle



Mounting on panel elements



Mounting on profiles

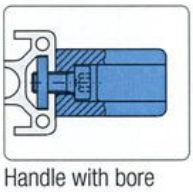


Technical data
material: PA
colour: black

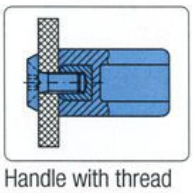
Description	Weight	Article-No.
Handle PA, with thread M8	166 g	1.61.230

Handles PA

Application
Handle with fixing possibilities from the front and the rear



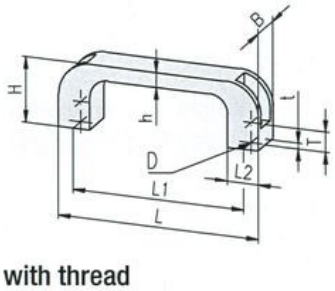
Handle with bore



Handle with thread

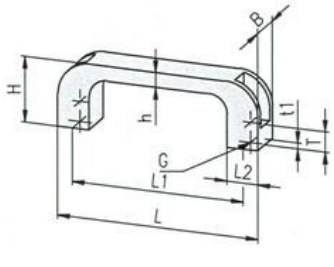
Technical data
material: PA
colour: black

with bore



Description	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

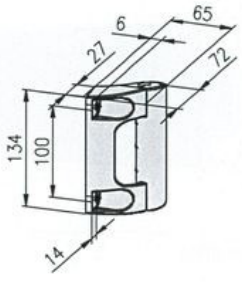


Description	G	L	Weight	Article-No.
Handle PA, with thread	M6	110	30 g	1.61.25110
Handle PA, with thread	M6	139	50 g	1.61.25139
Handle PA, with thread	M8	151	70 g	1.61.25151
Handle PA, with thread	M8	200	88 g	1.61.25200
Handle PA, with thread	M10	260	125 g	1.61.25260

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

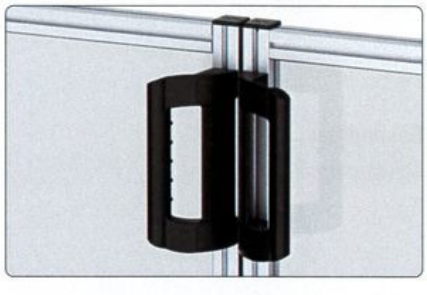
Handles PA

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

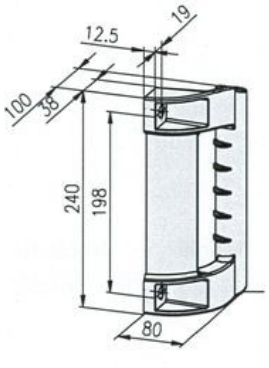


Technical data
material: PA
colour: black

Description	Weight	Article-No.
Handle PA, 135, with screw covers	117 g	1.61.26135



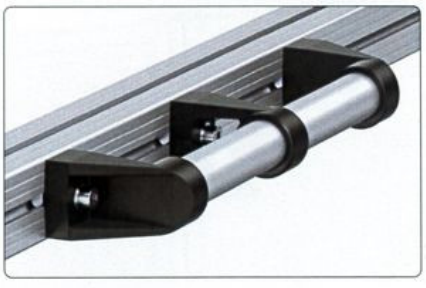
Technical data
material: PA
colour: black



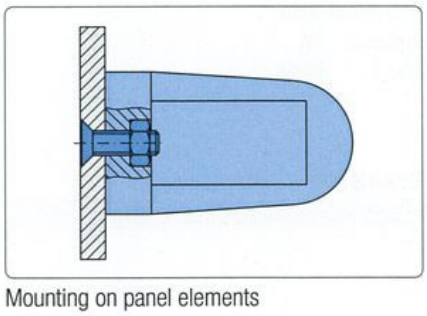
Description	Weight	Article-No.
Handle PA, 240, with screw covers	356 g	1.61.26240

6

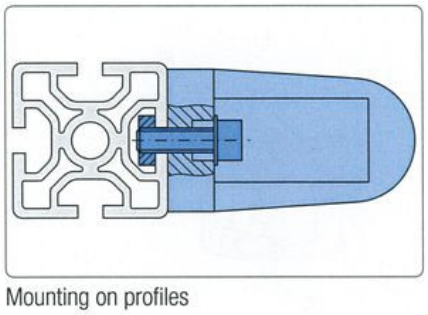
Handle system
round design



Application
Handle system for making handles of any length

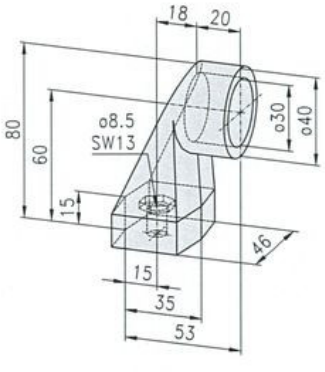


Mounting on panel elements



Mounting on profiles

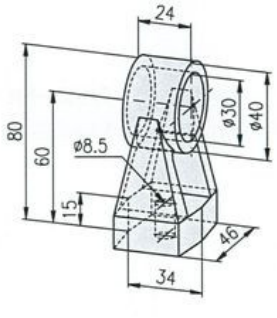
Corner piece PA-GF



Technical data
material: PA-GF
colour: black

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

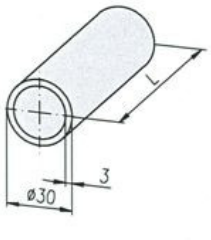
Centre piece PA-GF



Technical data
material: PA-GF
colour: black

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

Tube Ø30×3

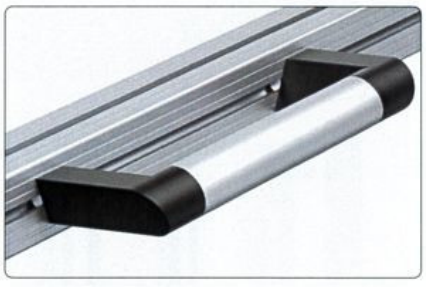


Technical data
material: aluminium
surface: natural anodised
tube length: 6 m

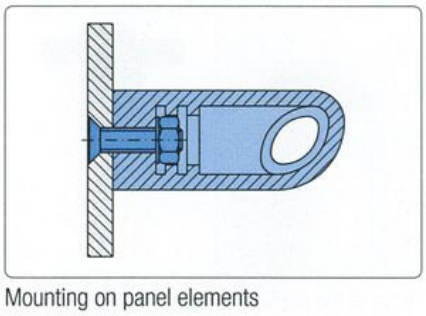
Description		Weight	Article-No.
Tube Ø30×3	bar	4.2 kg	1.19.16130.60
Tube Ø30×3	cut to length	0.7 kg/m	1.19.16130-A00A00/...

/... = length in mm

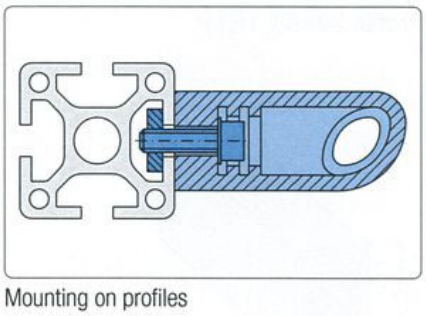
Handle system
oval design



Application
Handle system for making handles of any length

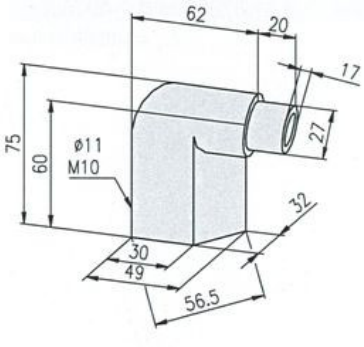


Mounting on panel elements



Mounting on profiles

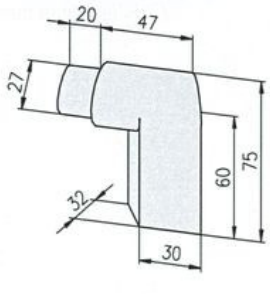
Oval corner piece right



Technical data
material: PA-GF
colour: black

Description	Weight	Article-No.
Oval corner piece right	65 g	1.61.290

Oval corner piece left

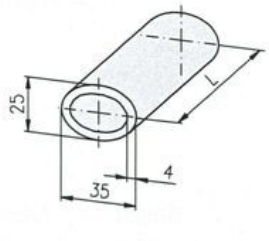


Technical data
material: PA-GF
colour: black

Description	Weight	Article-No.
Oval corner piece left	65 g	1.61.291

6

Oval tube 35×4



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

Description		Weight	Article-No.
Oval tube 35×4	bar	2.5 kg	1.19.14535.30
Oval tube 35×4	cut to length	0.83 kg/m	1.19.14535-A00A00/...

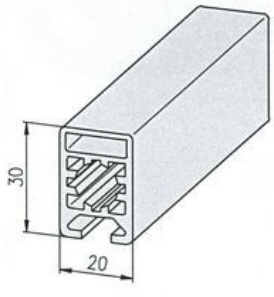
/... = length in mm

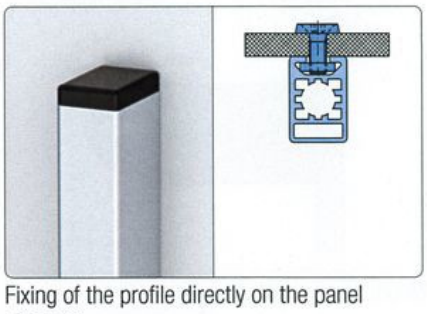
Grab handles

Application
Alu grip handles for customer's assembly from standard profiles

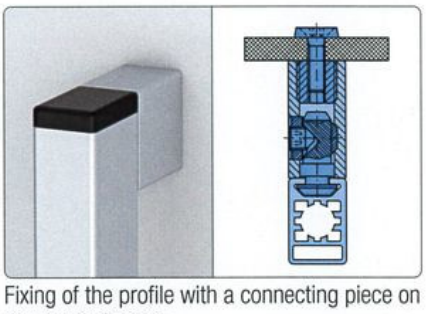
Comments
Grab handles increase the rigidity of panels without profile frames

Profile 20×30, 1F, LP





Fixing of the profile directly on the panel element

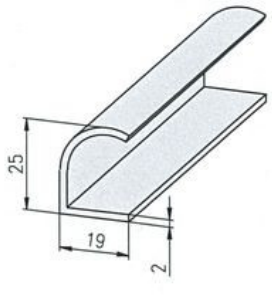


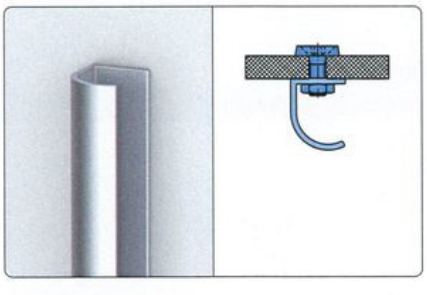
Fixing of the profile with a connecting piece on the panel element

Description		Weight	Article-No.
Profile 20×30, 1F, LP	cut to length	0.66 kg/m	1.11.020030.14LP-A00A00/...

/... = length in mm

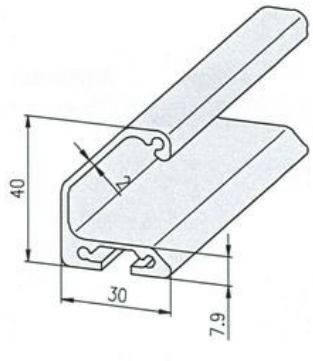
Grab handle profiles

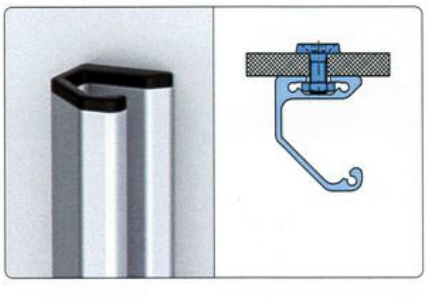




Description		Weight	Article-No.
Grab handle profile	cut to length	0.3 kg/m	1.19.14319-A00A00/...

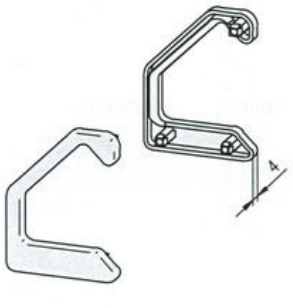
/... = length in mm





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

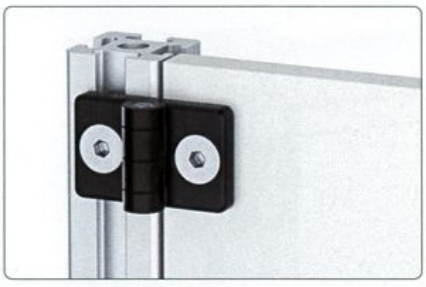
/... = length in mm



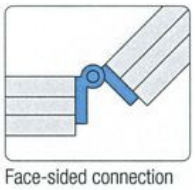
Technical data
material: PA-GF
colour: black

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

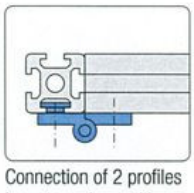
Hinges



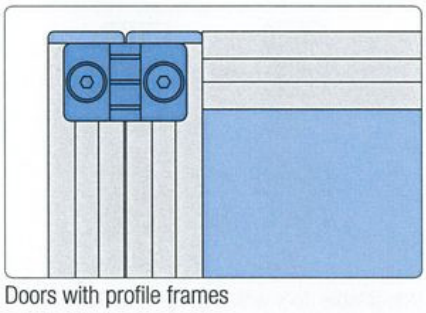
Application
Hinge for doors and flaps of light material



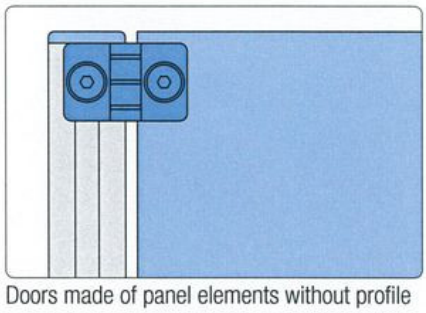
Face-sided connection of 2 profiles



Connection of 2 profiles in rectangular position

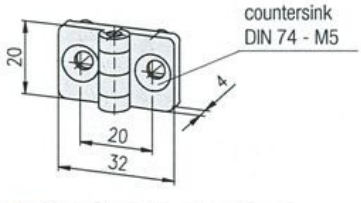


Doors with profile frames

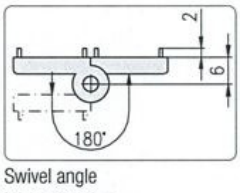


Doors made of panel elements without profile frames

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



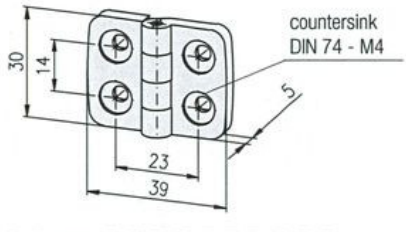
16 **20** 30 40 45 50 60



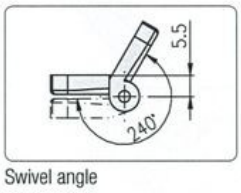
Swivel angle

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

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



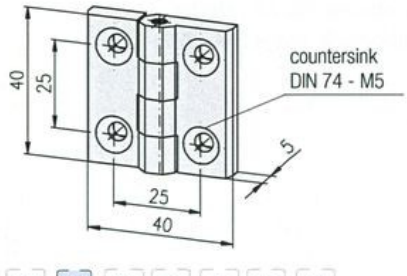
16 **20** 30 40 45 50 60



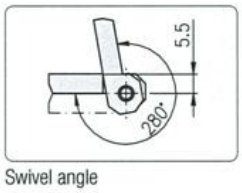
Swivel angle

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

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



16 **20** 30 40 45 50 60



Swivel angle

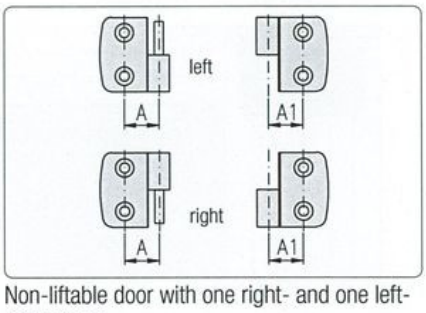
Comments
Countersink DIN 74 - M5 for countersunk screw DIN 7991 - M5

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

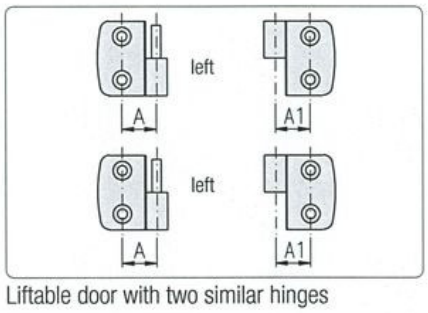
6

Lift-off hinges

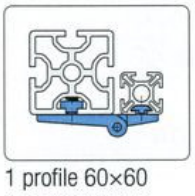
Application
The hinges enable the connection of profiles with different widths



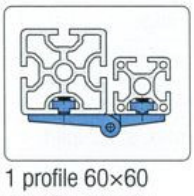
Non-liftable door with one right- and one left-sided hinge



Liftable door with two similar hinges



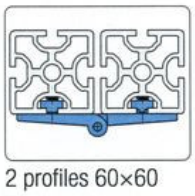
1 profile 60×60
1 profile 30×30



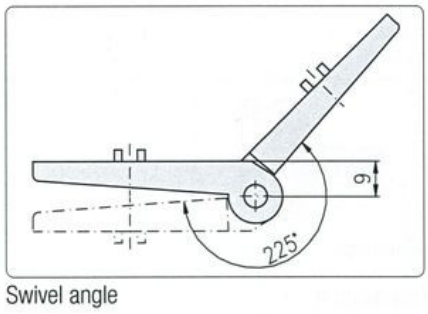
1 profile 60×60
1 profile 40×40

1 profile 60×60
1 profile 45×45

1 profile 60×60
1 profile 50×50



2 profiles 60×60

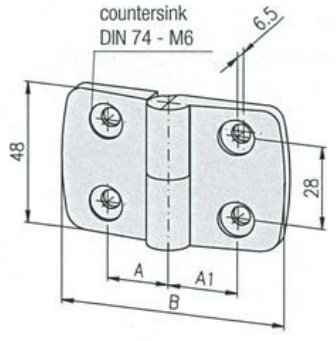


Swivel angle

Technical data

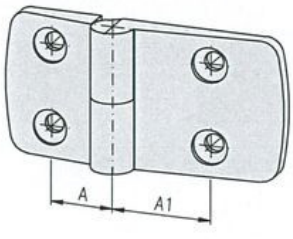
material:	PA-GF
surface:	black
hinge bolt:	stainless steel
max. static load:	150 N

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



16 20 30 40 45 50 60

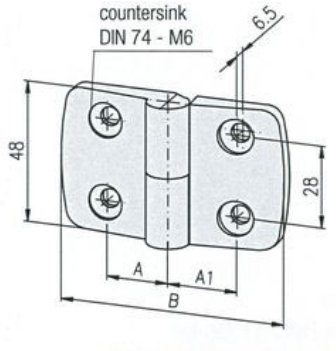
Description	A = A1	B	Weight	Article-No.
Lift-off hinge 48	A17.5, left	59	8 g	1.62.348.17/17L
Lift-off hinge 48	A22.5, left	77	10 g	1.62.348.22/22L
Lift-off hinge 48	A25.0, left	87	15 g	1.62.348.25/25L
Lift-off hinge 48	A27.5, left	97	25 g	1.62.348.27/27L
Lift-off hinge 48	A32.5, left	115	35 g	1.62.348.32/32L



Combinations

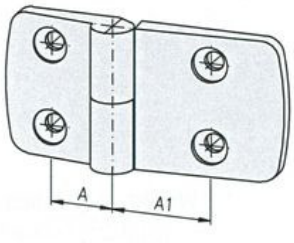
Description	A[1] A1[1]	Article-No.
Lift-off hinge 48 × □□/□□ left		1.62.348.□□/□□L

[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

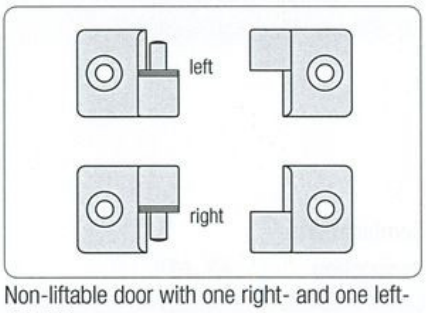
Description	A[1] A1[1]	Article-No.
Lift-off hinge 48 × □□/□□ right		1.62.348.□□/□□R

[1] Data without decimal places

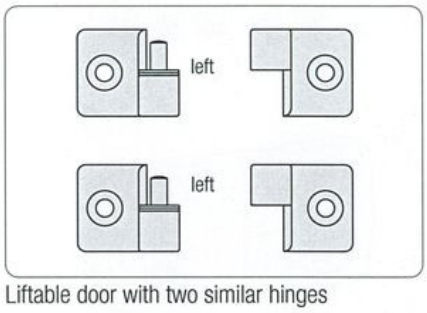
6

Hinges

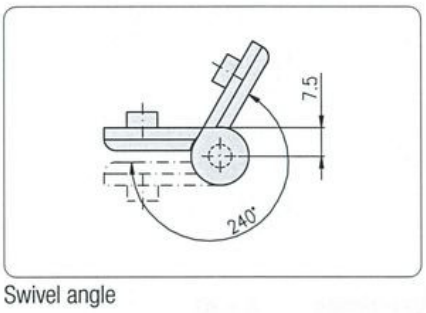
Application
Hinge for doors and flaps of light material



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



Liftable door with two similar hinges

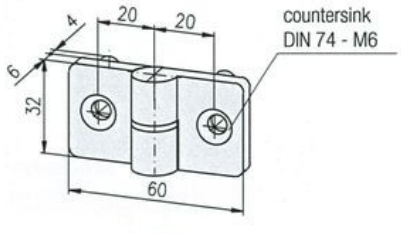


Swivel angle

Technical data

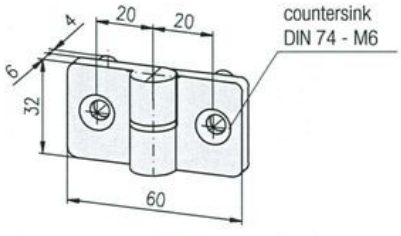
material:	PA-GF
colour:	black
max. static load:	100 N

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



16 20 30 **40** 45 50 60

Description	Weight	Article-No.
Hinge 32×60 left	21 g	1.62.41L

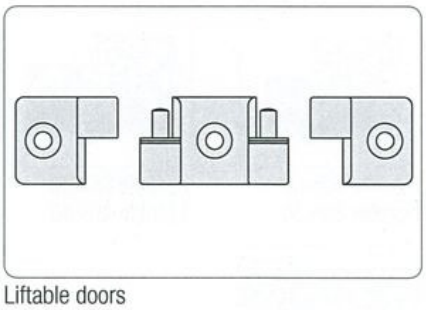


16 20 30 **40** 45 50 60

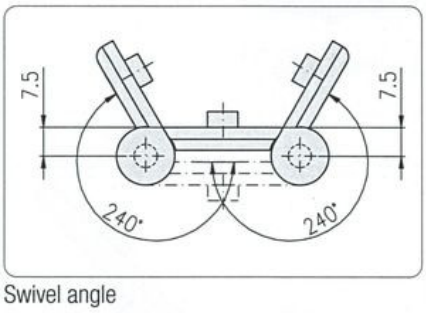
Description	Weight	Article-No.
Hinge 32×60 right	21 g	1.62.41R

Double hinge

Application
Hinge for doors and flaps of light material



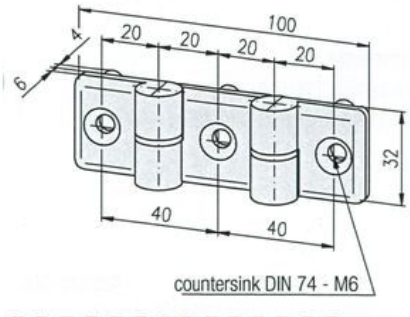
Liftable doors



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

6

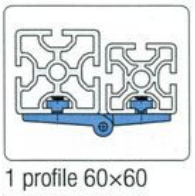
Hinges

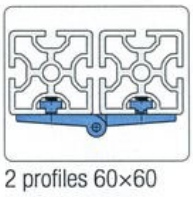
Application
The hinges enable the connection of profiles with different widths

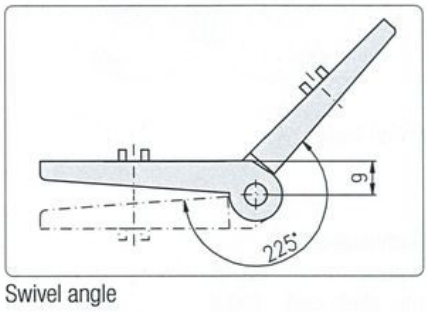
1 profile 60×60
1 profile 30×30

1 profile 60×60
1 profile 40×40

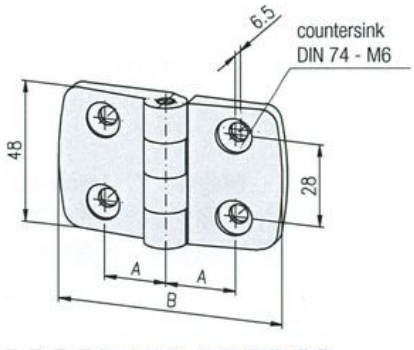
1 profile 60×60
1 profile 45×45


1 profile 60×60
1 profile 50×50


2 profiles 60×60



Swivel angle



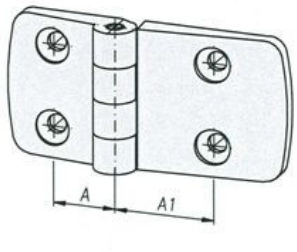
16 20 30 40 45 50 60

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.□□/□□

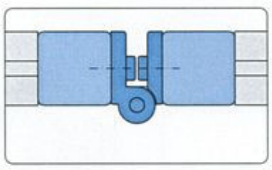
[1] Data without decimal places

Hinge
30×60

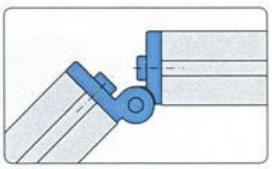
Application
Hinge or higher loads such as doors with profile frames

Technical data

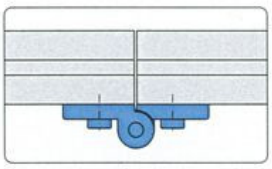
material:	GD-Zn
colour:	black
surface:	coated
max. static load:	400 N



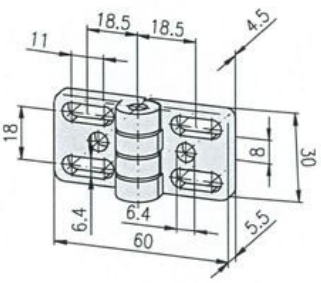
Connection of 2 vertical profiles, all anti-twist safety devices removed



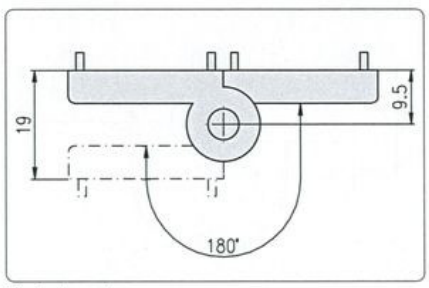
Face-sided connection of 2 profiles, with anti-twist safety device



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



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



Swivel angle

Description	Weight	Article-No.
Hinge 30×60	68.8 g	1.62.51030060

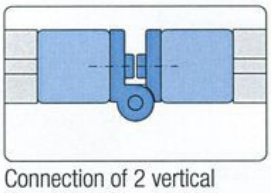
6

Hinge
40×80

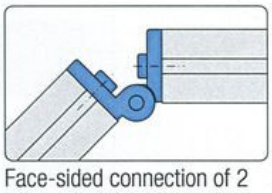
Application
Hinge or higher loads such as doors with profile frames

Technical data

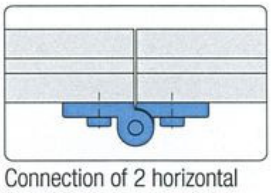
material:	GD-Zn
colour:	black
surface:	coated
max. static load:	750 N



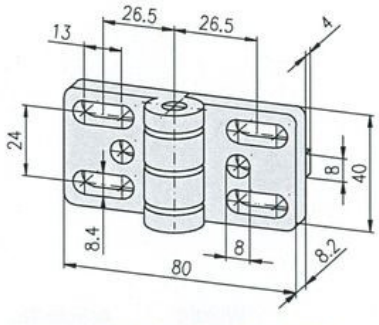
Connection of 2 vertical profiles, all anti-twist safety devices removed

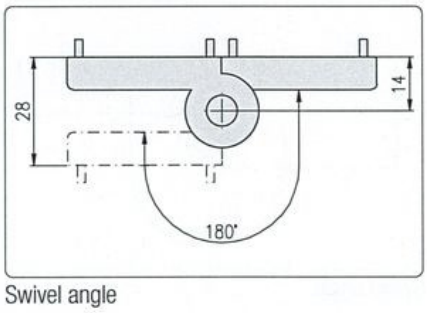


Face-sided connection of 2 profiles, with anti-twist safety device



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





Swivel angle

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

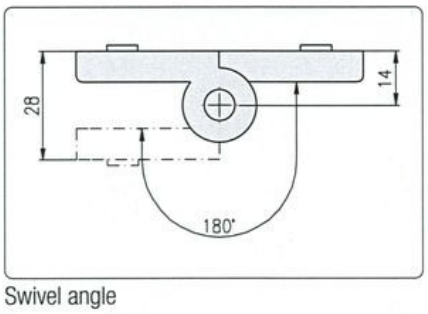
Description	Weight	Article-No.
Hinge 40×80	180 g	1.62.520

Hinges
40×80

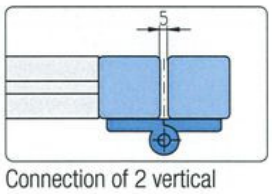
Application
Hinge or higher loads such as doors with profile frames

Technical data

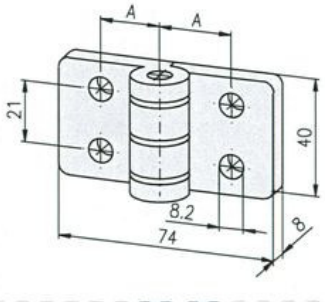
material:	GD-Zn
colour:	black
surface:	powder-coated
max. static load:	750 N



Swivel angle



Connection of 2 vertical profiles



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

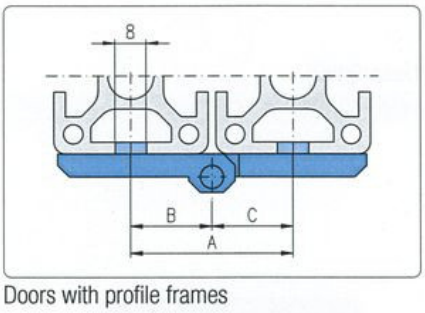
Fastening elements:

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

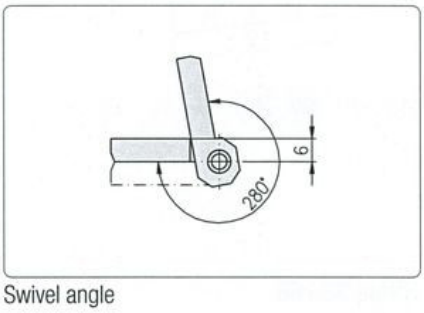
Description	A	Weight	Article-No.
Hinge 40×80 for PG 40	22.5	194 g	1.62.53045
Hinge 40×80 for PG 45	25.0	194 g	1.62.53050

Hinges

Application
Hinge with detachable fixing plug for different slot distances



Doors with profile frames



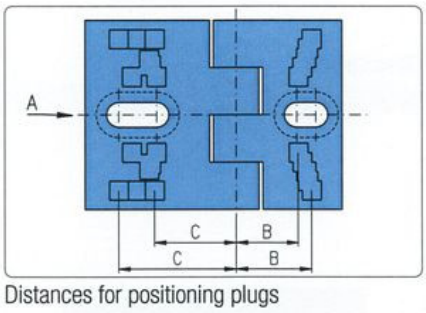
Swivel angle

Technical data

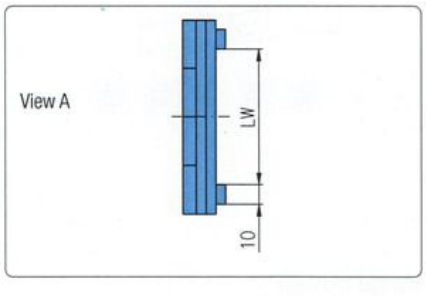
material:	GD-Zn
surface:	coated
colour:	black
max. static load:	250 N

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

Delivery unit
Including 4 plugs for F- and E-slot



Distances for positioning plugs



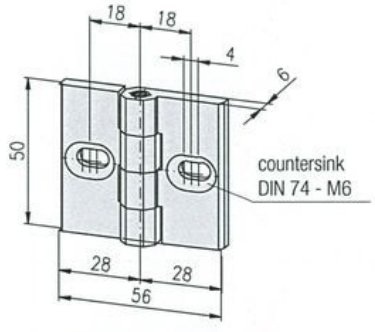
Possibilities of fastening

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

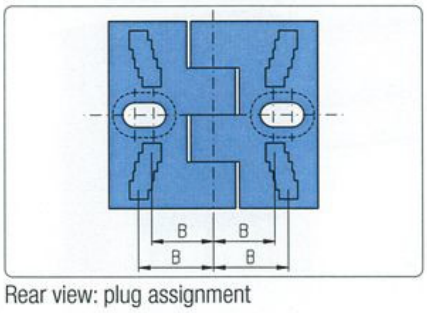
short flange							
		slots					
		F		E3		E4	
B	LW	G	T	G	T	G	T
16.5	11	-	-	x	-	x	x
17.5	14.75	x	x	x	-	x	x
18.5	20.5	x	x	x	x	x	x
19	25.25	x	x	x	x	x	x
20	30	x	x	x	x	x	x

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

Hinge 50×56



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



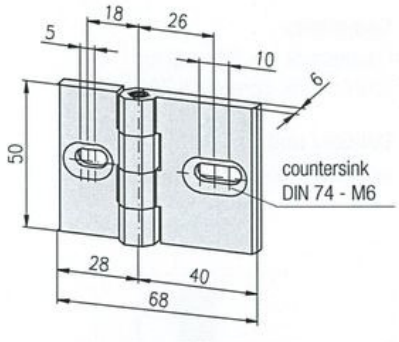
Rear view: plug assignment

2 short flanges

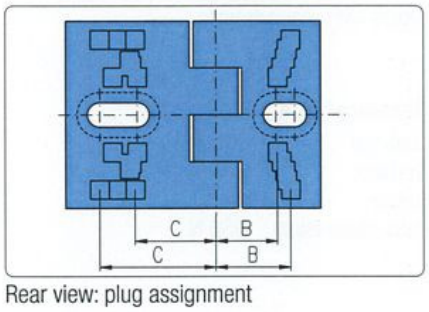
B
16.5
17.5
18.5
19
20

Description	Weight	Article-No.
Hinge 50×56	112 g	1.62.65056

Hinge 50×68



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



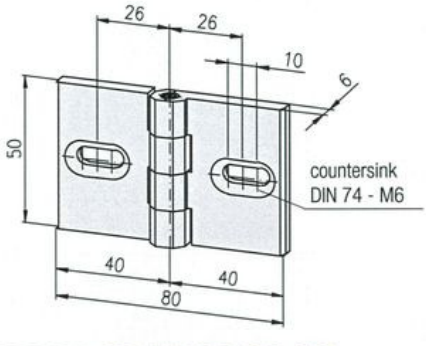
Rear view: plug assignment

1 short flange, 1 long flange

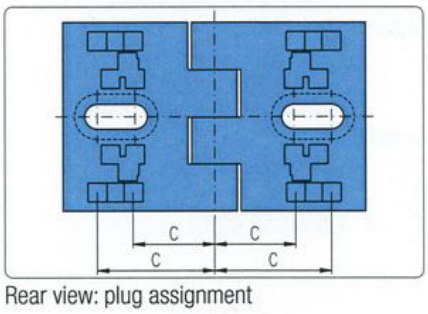
B	C
16.5	21
17.5	21.5
18.5	23.5
19	26
20	27.5
	31

Description	Weight	Article-No.
Hinge 50×68	130 g	1.62.65068

Hinge 50×80



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



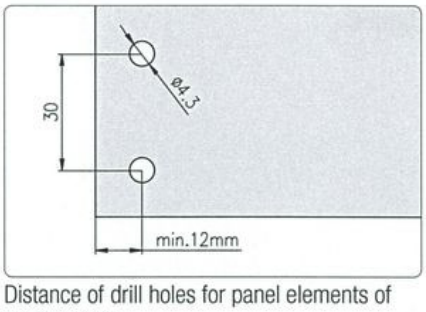
Rear view: plug assignment

2 long flanges

C
21
21.5
23.5
26
27.5
31

Description	Weight	Article-No.
Hinge 50×80	130 g	1.62.65080

Alu hinges



Distance of drill holes for panel elements of acrylic glass

Application

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

Technical data

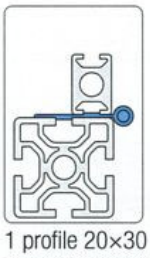
material: aluminium Al Mg Si 0.5
strength: F 25
surface: natural anodised
max. static load: 100 N

Comments

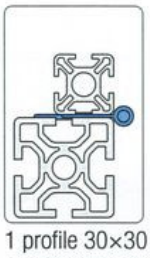
Countersink DIN 74 - M4 for countersunk screw DIN 7991 - M4

raw finish on request

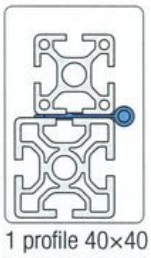
Type A



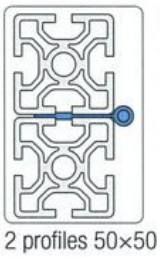
1 profile 20×30
1 profile 50×50



1 profile 30×30
1 profile 50×50



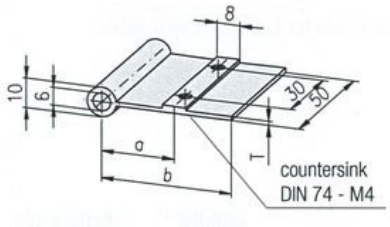
1 profile 40×40
1 profile 50×50



2 profiles 50×50

Connection:

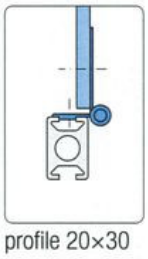
- profile to profile
- leg built-in covered
- hinge elements:
  Type A
  Type A



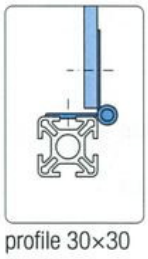
16 20 30 40 45 50 60

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

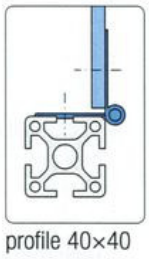
Type B



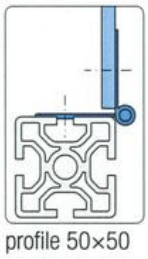
profile 20×30



profile 30×30



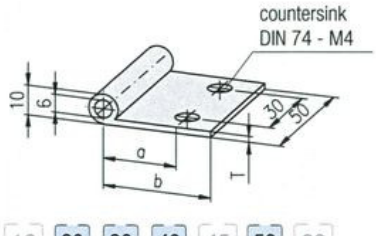
profile 40×40



profile 50×50

Connection:

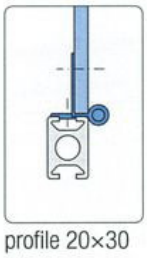
- profile to panel element
- leg one side visible
- hinge elements:
  Type A
  Type B

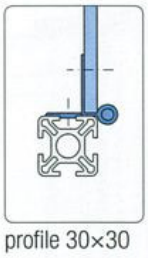


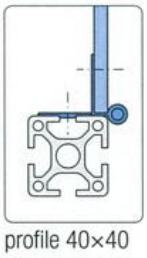
16 20 30 40 45 50 60

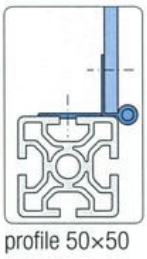
Description	T	a	b	Weight	Article-No.
Hinge element Type B, PG 20	2.0	15.3	21	11 g	1.62.7220
Hinge element Type B, PG 20	3.0	15.3	21	13 g	1.62.7220.030
Hinge element Type B, PG 30	2.0	20.3	29	11 g	1.62.7230
Hinge element Type B, PG 30	3.0	20.3	29	13 g	1.62.7230.030
Hinge element Type B, PG 40	2.0	25.3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

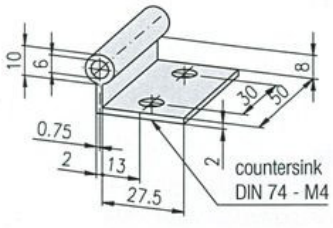

profile 20×30


profile 30×30


profile 40×40

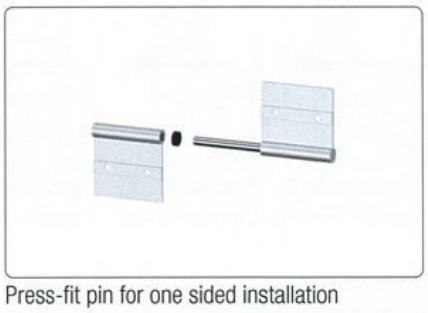

profile 50×50

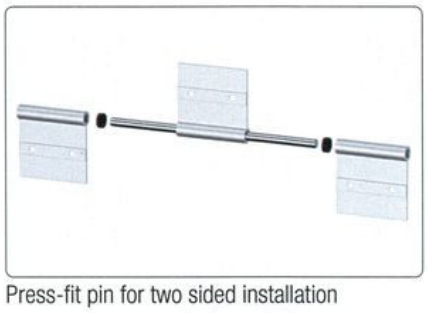
Connection:
- Profile to panel element
- leg built-in covered
- hinge elements:
  Type A
  Type C



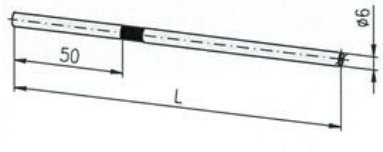
Description	Weight	Article-No.
Hinge element Type C, 30 mm	15 g	1.62.7330

Press-fit pins
for alu hinges


Press-fit pin for one sided installation

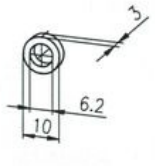

Press-fit pin for two sided installation

Technical data
material: steel
surface: galvanised



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

Spacer



Technical data
material: PE
colour: black

Description	Weight	Article-No.
Spacer	1 g	1.62.7810

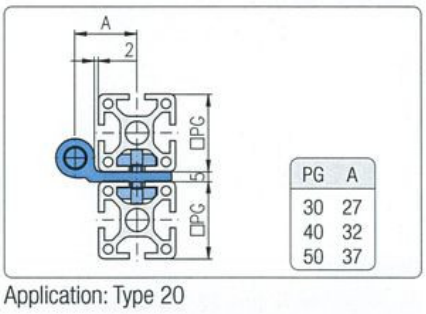
Alu hinges, heavy

Application
Hinge for higher loads such as doors with profile frames

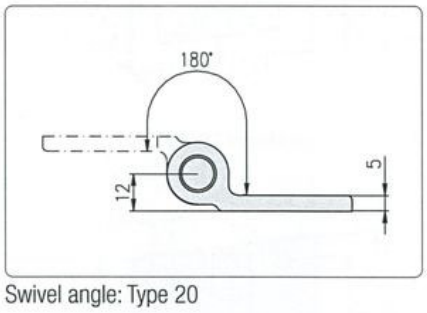
Technical data

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

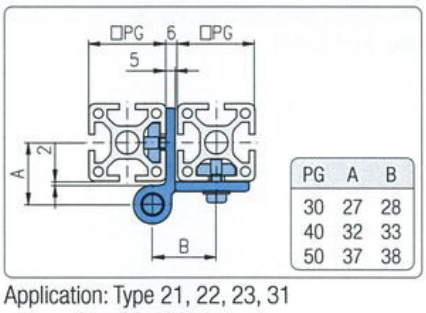
Comments
Countersink DIN 74 - M8 for countersunk screw DIN 7991 - M8
raw finish on request



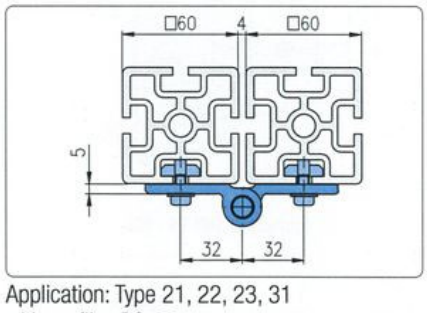
Application: Type 20



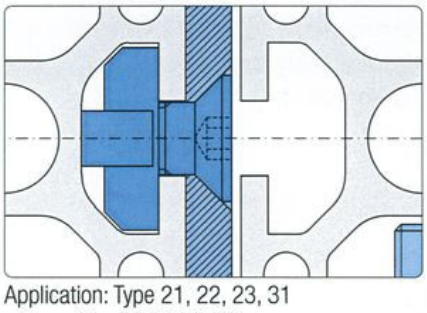
Swivel angle: Type 20



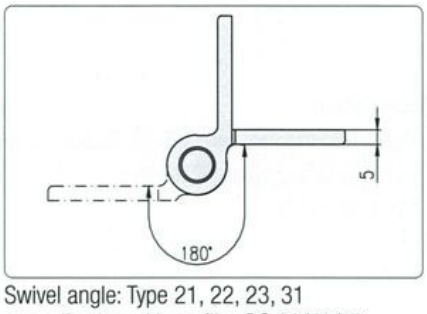
Application: Type 21, 22, 23, 31
with profiles PG 40/50



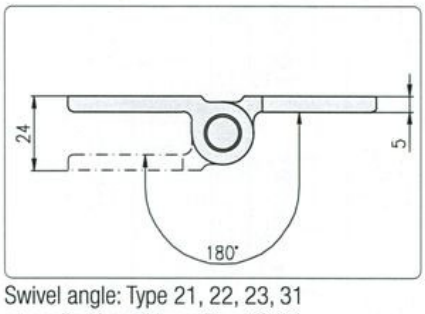
Application: Type 21, 22, 23, 31
with profiles PG 60



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



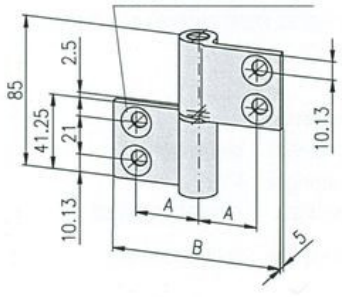
Swivel angle: Type 21, 22, 23, 31
at application with profiles PG 30/40/50



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

6

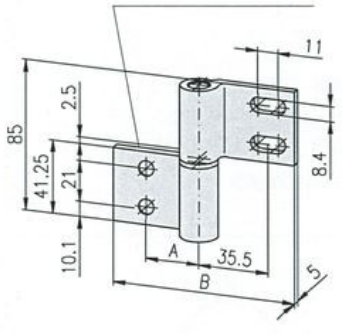
countersink DIN 74 - M8



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

max. load 150 N

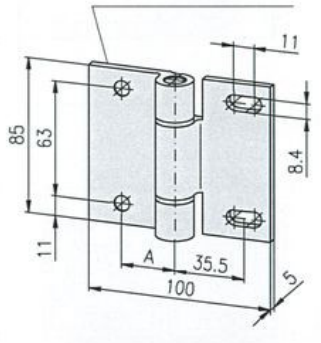
countersink DIN 74 - M8



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

max. load 150 N

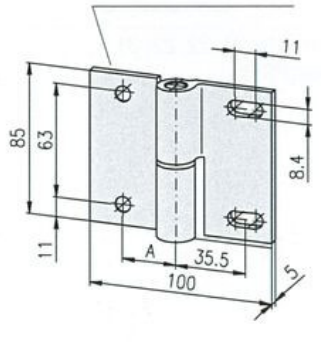
countersink DIN 74 - M8



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

max. load 250 N

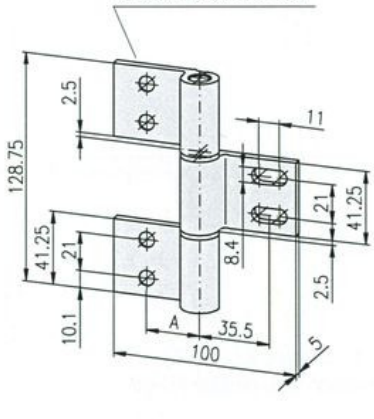
countersink DIN 74 - M8



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

max. load 250 N

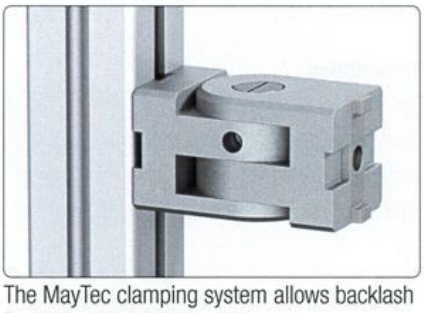
countersink DIN 74 - M8



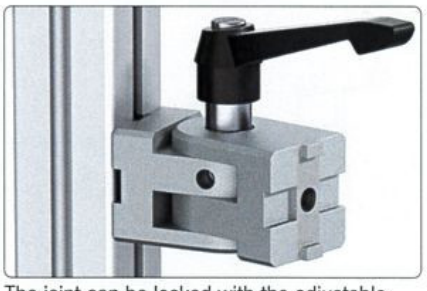
Description	A	Weight	Article-No.
Alu hinge, heavy, type 31, PG 40/40-50	32	245 g	1.62.843132128V
Alu hinge, heavy, type 31, PG 50	37	245 g	1.62.843137128V

max. load 250 N

Joints
with / without clamping lever



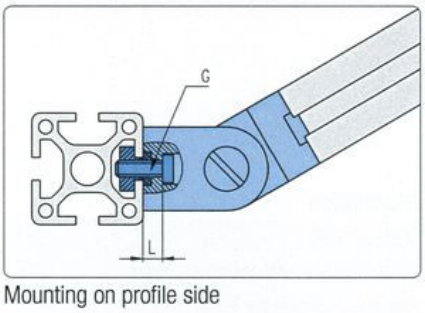
The MayTec clamping system allows backlash free adjusting and clamping



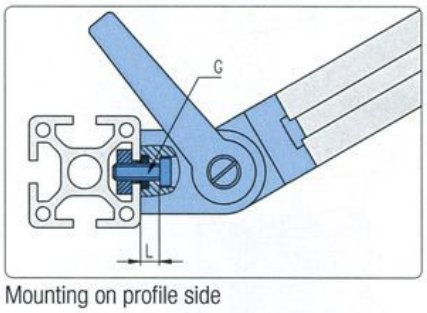
The joint can be locked with the adjustable clamping lever

Application
To enable infinitely variable adjusting and swivelling of profiles

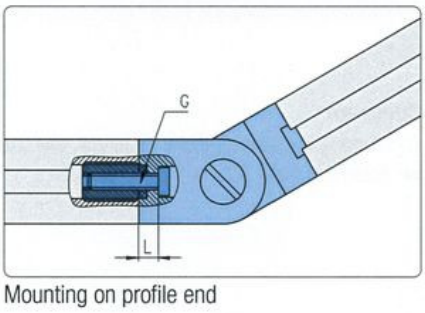
Technical data
material: steel
surface: galvanised



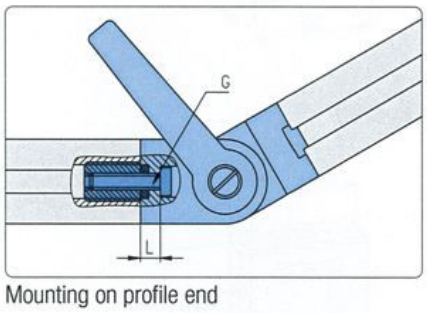
Mounting on profile side



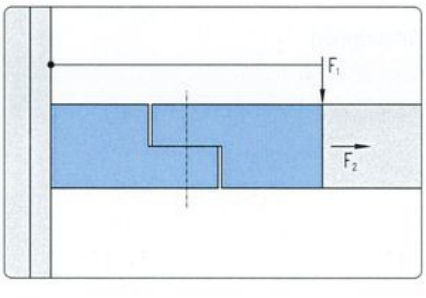
Mounting on profile side



Mounting on profile end



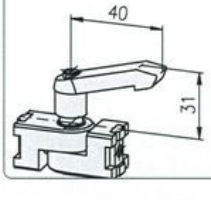
Mounting on profile end



max. loads		
Joint	$F1_{max}$	$F2_{max}$
20×20	10 Nm	2,000 N
30×30	30 Nm	4,000 N
30×50	50 Nm	4,000 N
30×100	100 Nm	8,000 N
30×100 [1]	200 Nm	8,000 N
40×40	50 Nm	6,000 N
50×50	60 Nm	10,000 N

[1] with fastening plate

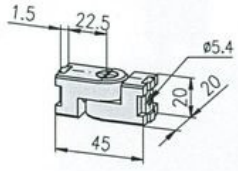
Comments
Mounting with:
- cap-screw DIN 6912
- washer DIN 433

Dimensions of clamping lever for joint:	
	20×20

Dimensions of clamping lever for joints:	
	30×30 30×50 30×100 40×40 50×50

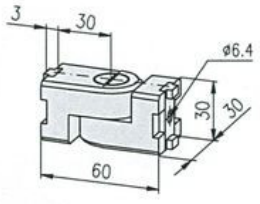
6

20×20



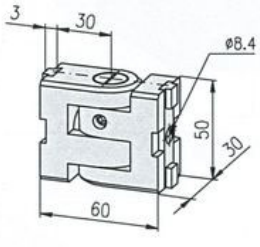
Description	G	L	Weight	Article-No.
Joint 20×20	M5	6.5	97 g	1.63.02021
Joint 20×20 with clamping lever	M5	6.5	114 g	1.63.12021
Anti-twist device for joint, H, L20			8 g	1.63.02022
Anti-twist device for joint, F, L20			8 g	1.63.02023

30×30



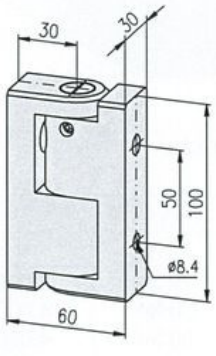
Description	G	L	Weight	Article-No.
Joint 30×30	M6	7.5	315 g	1.63.03031
Joint 30×30 with clamping lever	M6	7.5	380 g	1.63.13031
Anti-twist device for joint, L30			28 g	1.63.03032

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



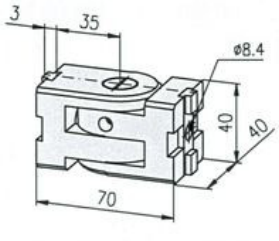
Comments

To increase the load capacity on hinge 30×100

☛ *fastening plate 30×150, 1.47.60315*

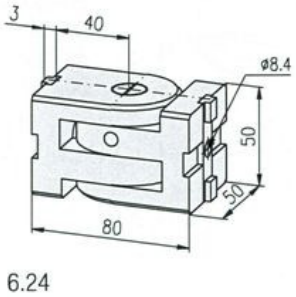
Description	G	L	Weight	Article-No.
Joint 30×100	M8	7.5	1,098 g	1.63.03101
Joint 30×100 with clamping lever	M8	7.5	1,160 g	1.63.13101

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

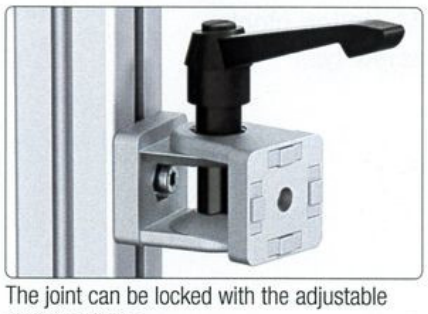
50×50



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

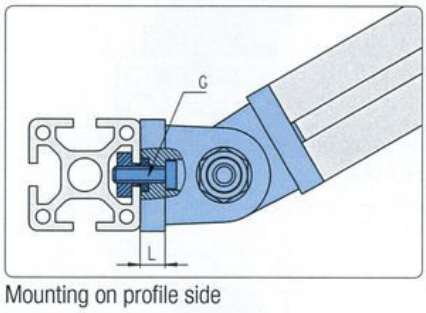
The MayTec clamping system allows backlash free adjusting and clamping



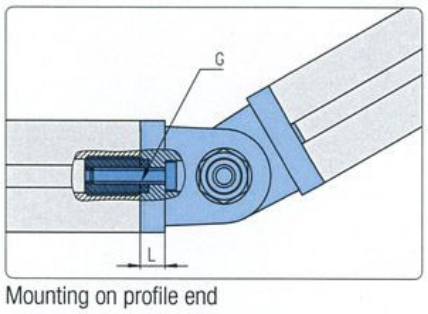
The joint can be locked with the adjustable clamping lever

Application
To enable infinitely variable adjusting and swivelling of profiles

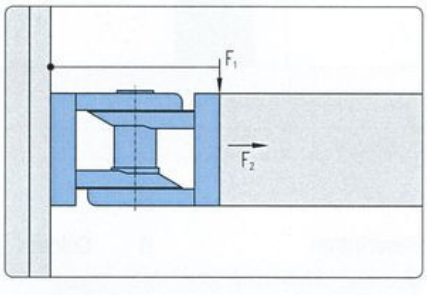
Technical data
material: GD-Zn
surface: aluminium coloured powder-coated



Mounting on profile side



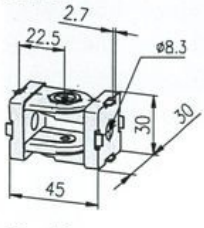
Mounting on profile end



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

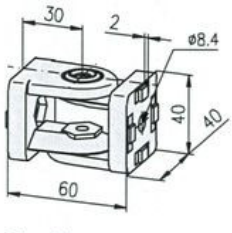
Comments
Mounting with:
- cap screw DIN 6912
- washer DIN 433

30×30



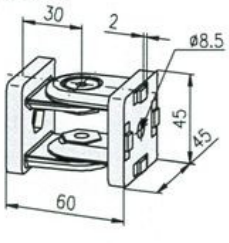
Description	G	L	Weight	Article-No.
Joint Zn 30×30	M8	7.0	124 g	1.63.51030030
Joint Zn 30×30 with clamping lever	M8	7.0	147 g	1.63.52030030

40×40



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

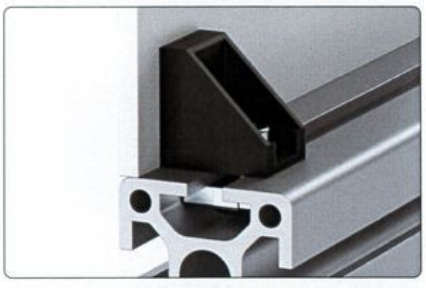
45×45



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

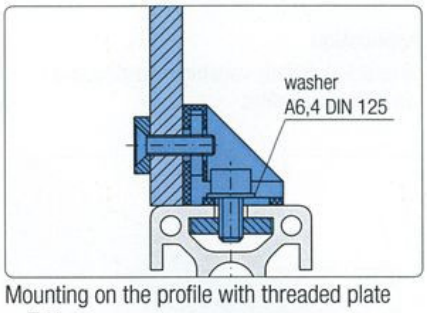
6

Mounting blocks
screw-type

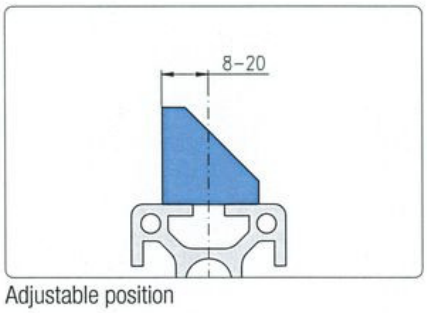


Application
For mounting of panels

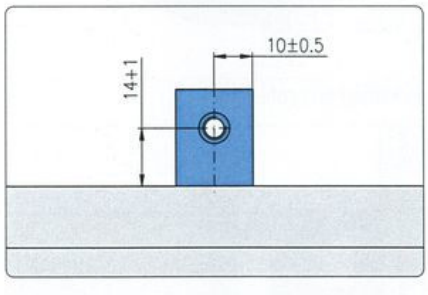
Technical data
Mounting block
material: PA-GF
colours: grey, black
Threaded plate
material: steel
surface: galvanised



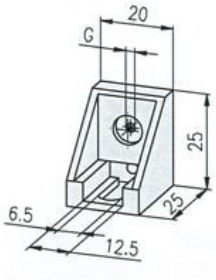
Mounting on the profile with threaded plate or T-Nut



Adjustable position



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

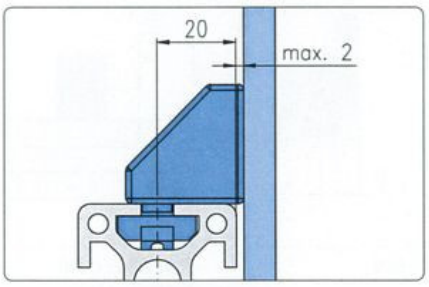


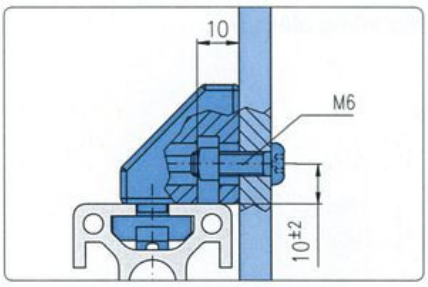
Description	G	Colour	Weight	Article-No.
Mounting block screw type	M3	grey	9 g	1.64.10M3.1
Mounting block screw type	M3	black	9 g	1.64.10M3.2
Mounting block screw type	M4	grey	9 g	1.64.10M4.1
Mounting block screw type	M4	black	9 g	1.64.10M4.2
Mounting block screw type	M5	grey	9 g	1.64.10M5.1
Mounting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

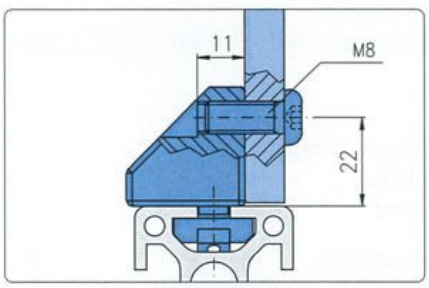
Mounting block GD-Zn

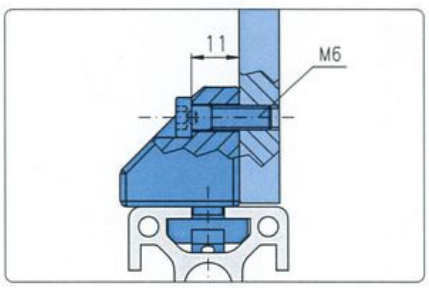
Application
For mounting of panels

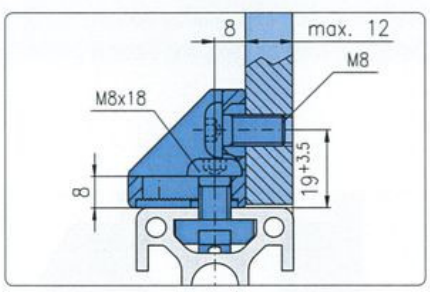
Technical data
material: GD-Zn

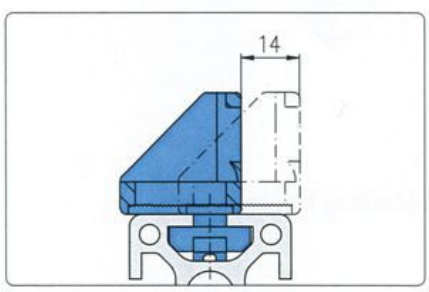




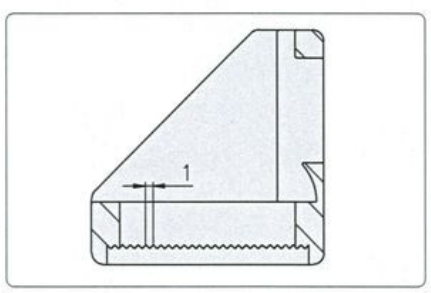


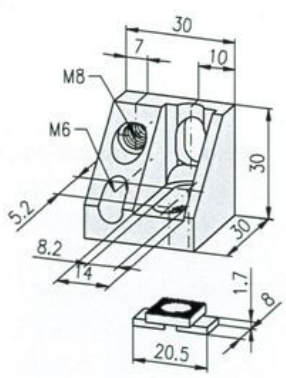






Anti-twistable mounting in steps of 1 mm





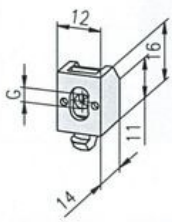
Description	G	Surface	Weight	Article-No.
Mounting block GD-Zn	M8	natural	68 g	1.64.153030.1
Mounting block GD-Zn	M8	black	68 g	1.64.153030.2

6

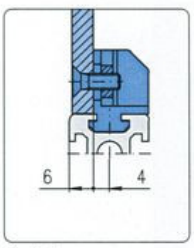
Mounting blocks
for subsequent insertion

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

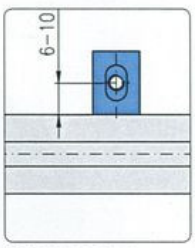
Mounting block H



H F E



H-slot



Tolerance equalisation: 4 mm

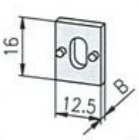
Technical data

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

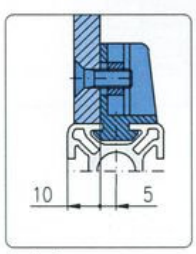
Technical data

material:	PA-GF
colour:	black

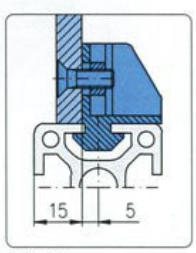


Description	B	Weight	Article-No.
Distancing plate for mounting block H	1	0.2 g	1.64.xH01
Distancing plate for mounting block H	2	0.4 g	1.64.xH02
Distancing plate for mounting block H	3	0.6 g	1.64.xH03
Distancing plate for mounting block H	4	0.8 g	1.64.xH04

Mounting blocks F and E

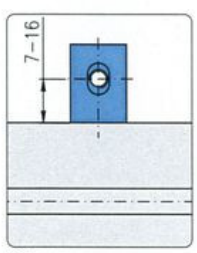


F-slot



E3-slot

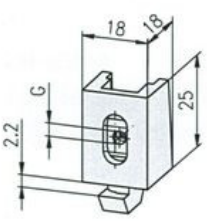
E4-slot



Tolerance equalisation: 9 mm

Technical data

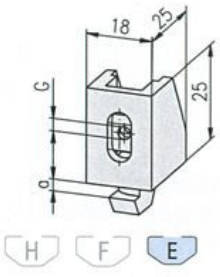
material:	PA-GF
colours:	grey, black
square nut:	steel , galvanised
max. static load:	250 N, rectangular to slot



H F E

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

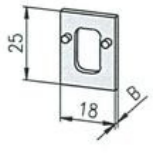
Mounting blocks E



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

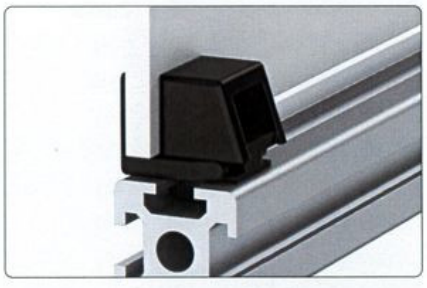
Technical data

material: PA-GF
colours: grey, black



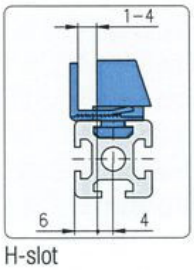
Description	B	Colour	Weight	Article-No.
Distancing plate for mounting block FE	2	grey	0.5 g	1.64.2x02.1
Distancing plate for mounting block FE	2	black	0.5 g	1.64.2x02.2
Distancing plate for mounting block FE	3	grey	0.8 g	1.64.2x03.1
Distancing plate for mounting block FE	3	black	0.8 g	1.64.2x03.2
Distancing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

Mounting clamp blocks
for subsequent insertion

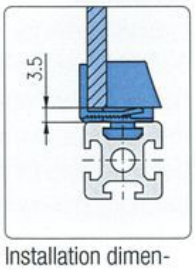


Application
Mounting of panels with clamps, without drilling and screwing
For subsequent insertion:
Variable mounting position of panels with distance plates

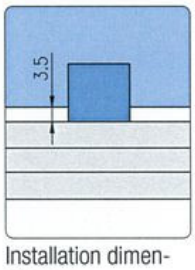
The distance plates are positioned and fastened by pins, it is possible to mount several distance plates in series



H-slot

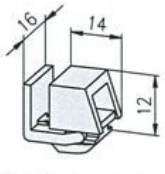


Installation dimensions



Installation dimensions

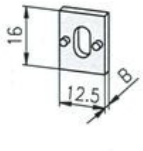
Technical data
material: PA-GF
colour: black
max. static load:
- towards clamp block: 110 N
- towards slider: 30 N



H F E

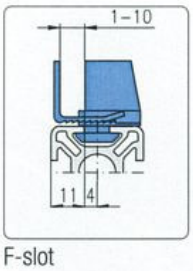
Description	Weight	Article-No.
Mounting clamp block H	3.4 g	1.64.3H2

Technical data
material: PA-GF
colour: black

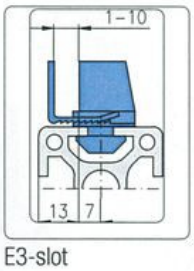


Description	B	Weight	Article-No.
Distancing plate for mounting clamp block H	1	0.2 g	1.64.xH01
Distancing plate for mounting clamp block H	2	0.4 g	1.64.xH02
Distancing plate for mounting clamp block H	3	0.6 g	1.64.xH03
Distancing plate for mounting clamp block H	4	0.8 g	1.64.xH04

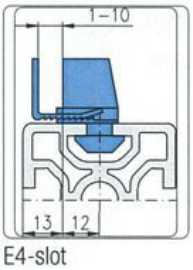
Mounting clamp blocks
for subsequent insertion



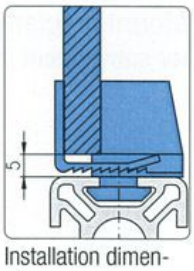
F-slot



E3-slot

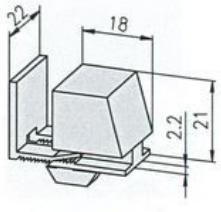


E4-slot



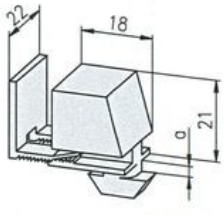
Installation dimensions

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



H F E

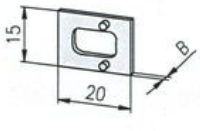
Description	Weight	Article-No.
Mounting clamp block F	7.5 g	1.64.3F2



H F E

Description	a	Weight	Article-No.
Mounting clamp block E3	3.0	8.0 g	1.64.3E3

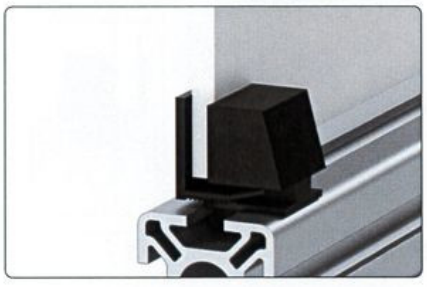
Technical data
material: PA-GF
colour: black



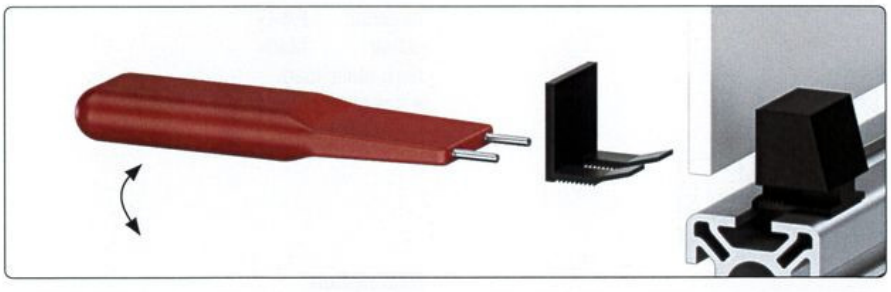
Description	B	Weight	Article-No.
Distancing plate for mounting clamp block FE	5	1.4 g	1.64.3x05

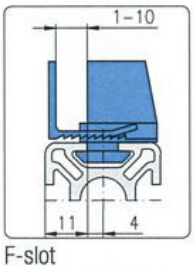
6

Mounting clamp blocks SL
for subsequent insertion

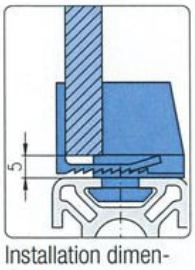


Application
As mounting clamp block, however:
For safety's sake it is only possible to be opened with special tools



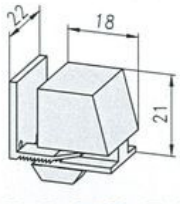


F-slot



Installation dimensions

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



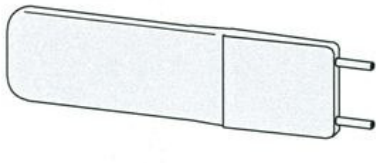
H F E

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

Technical data
material: PA-GF
colour: black

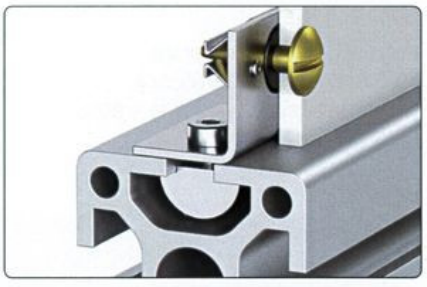
Description	B	Weight	Article-No.
Distancing plate for mounting clamp block FE	2	0.6 g	1.64.3x02
Distancing plate for mounting clamp block FE	3	0.9 g	1.64.3x03
Distancing plate for mounting clamp block FE	5	1.4 g	1.64.3x05

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



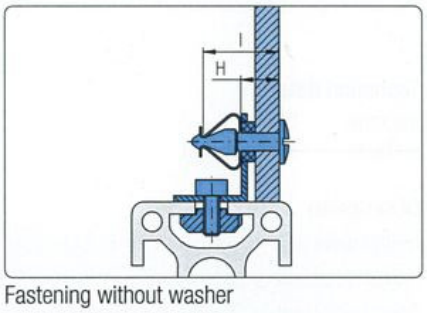
Description	Weight	Article-No.
Tool for mounting clamp block SL	23 g	1.64.4W

Quick locks

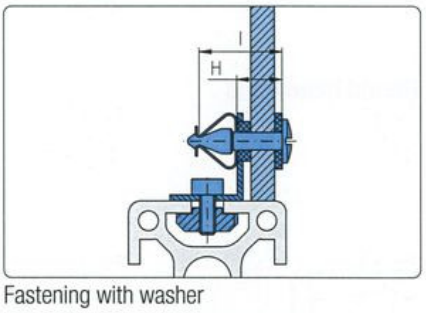


Application
Mounting element for quick mounting and dismounting of covers

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



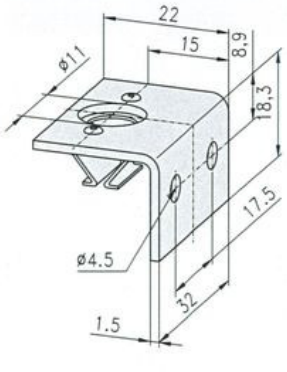
Fastening without washer
$H_{max} = S_{retaining\ ring}$ + panel thickness



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

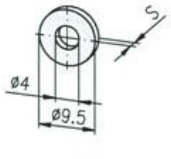
Mounting elements:
F-slot:
- T-Nut, with leaf spring F, 2×M4 1.32.4F2M4.25
- threaded plate F, M4 1.31.FM4
- spring nut F, M4 1.33.FM4
- T-slot nut F, M4 1.34.10FM4

E-slot:
- T-Nut, with leaf spring E, 2×M4 1.32.4E2M4.25
- spring nut E, M4 1.33.EM4
- T-slot nut E, M4 1.34.10EM4
- rhomboid T-slot nut E, M4 1.34.20EM4

Description	Weight	Article-No.
Mounting angle	14,6 g	1.64.5101

6

Retaining rings

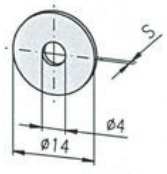


Technical data
material: neoprene
hardness: 55 Shore A
temperature range: - 50°C to + 90°C

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

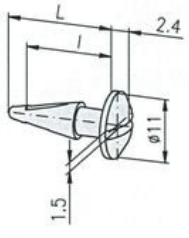


Description	S	Weight	Article-No.
Sealing washer	0.5	0.8 g	1.64.5305
Sealing washer	1.0	1.7 g	1.64.5310
Sealing washer	1.5	2.5 g	1.64.5315
Sealing washer	2.0	3.3 g	1.64.5320

Round head bolts

Technical data
material: brass
surface: nickel-plated

Comments
Mounting dimension „H" see mounting sketch

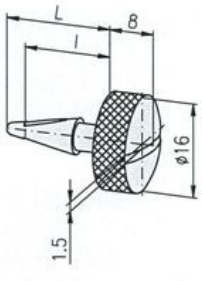


Description	H_{max}	L	l	Weight	Article-No.
Round head bolt	3.7	16.6	14.4	4.0 g	1.64.5416
Round head bolt	4.7	17.6	15.4	4.0 g	1.64.5417
Round head bolt	6.9	19.8	17.6	4.5 g	1.64.5419
Round head bolt	7.7	20.6	18.4	5.0 g	1.64.5420
Round head bolt	9.7	22.6	20.4	6.0 g	1.64.5422
Round head bolt	10.7	23.6	21.4	6.0 g	1.64.5423

Knurled head bolts

Technical data
material: brass
surface: nickel-plated

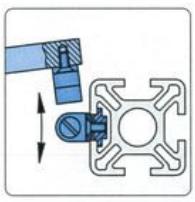
Comments
Mounting dimension „H" see mounting sketch

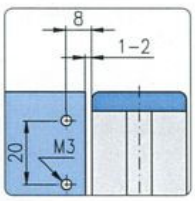


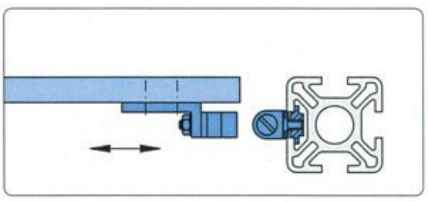
Description	H_{max}	L	l	Weight	Article-No.
Knurled head bolt	4.7	17.6	15.4	14.0 g	1.64.5517
Knurled head bolt	5.7	18.6	16.4	14.0 g	1.64.5518
Knurled head bolt	7.7	20.6	18.4	15.0 g	1.64.5520
Knurled head bolt	8.9	21.8	19.6	15.0 g	1.64.5521

Bullet catches

Application
Lock for swinging and sliding doors

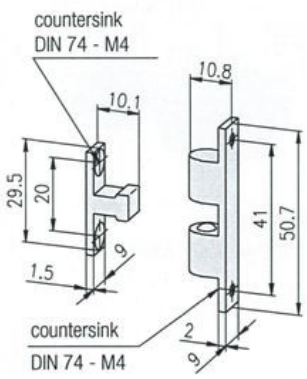






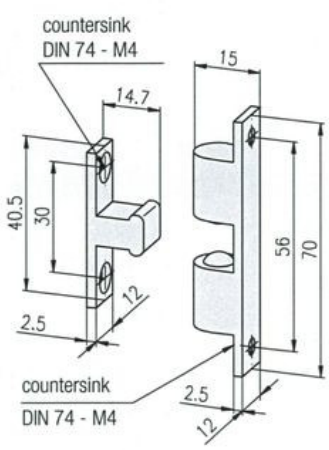
Technical data

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



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

Description	Weight	Article-No.
Bullet catch 9×50	25.0 g	1.65.1101

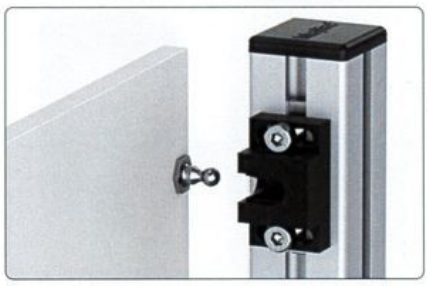


Comments
Countersink DIN 74 - M4 for countersunk screw DIN 7991 - M4

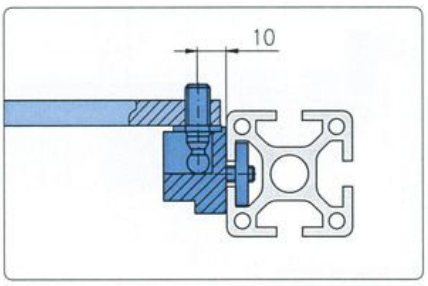
Description	Weight	Article-No.
Bullet catch 12×70	72.0 g	1.65.1102

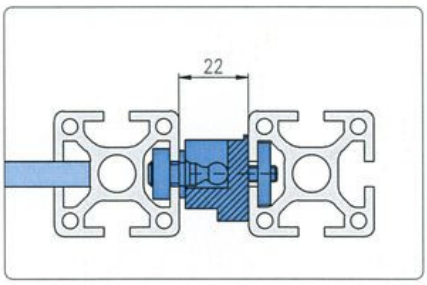
6

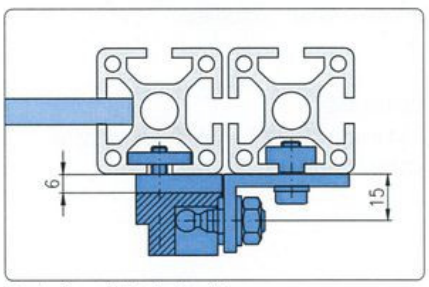
Bullet catch PA



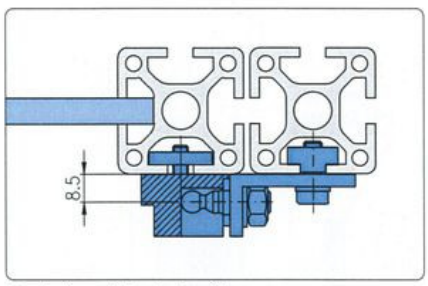
Application
Lock for swinging and sliding doors





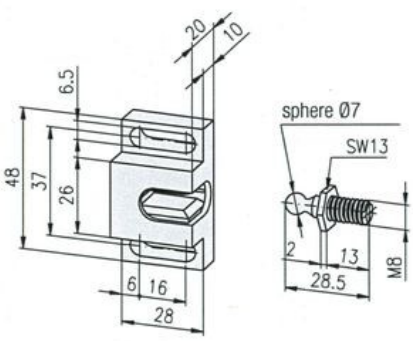


Fastening of the bolt with
angle 25×40, Ø8.7 ☛ *1.46.115*



Fastening of the bolt with
angle 20×47, M8 ☛ *1.65.1301*

Bullet catch PA

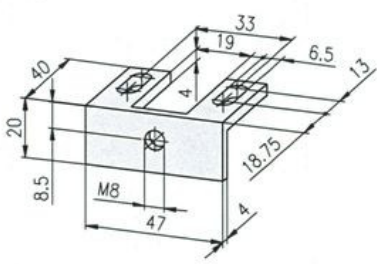


Technical data

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

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

Angle

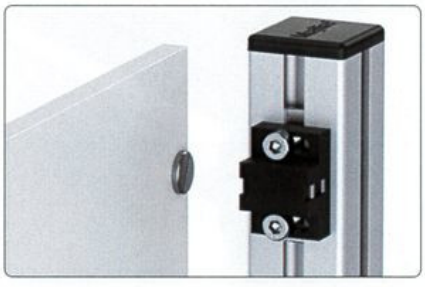


Technical data

material:	aluminium
strength:	F22
surface:	natural anodised

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

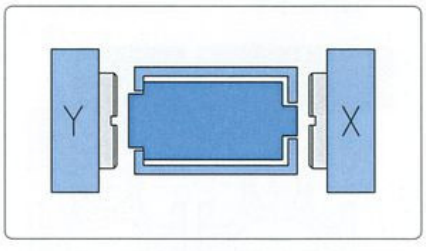
Magnetic lock PA



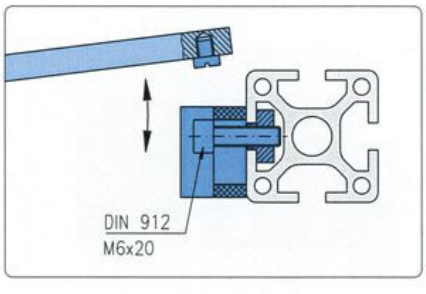
Application
Lock for swinging and sliding doors

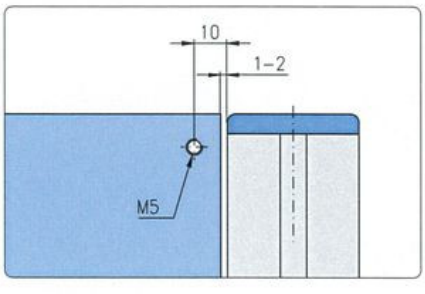
Technical data

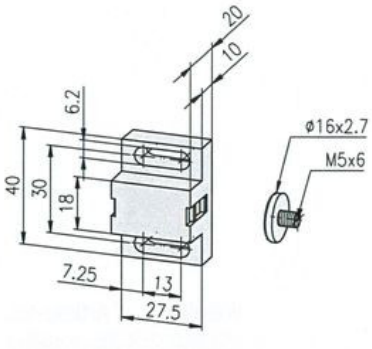
capsule:	PA-GF, black
flat head screw:	steel, galvanised
retention force:	y = 40 N
	x = 25 N



Comments
Different force
y = large force
x = small force

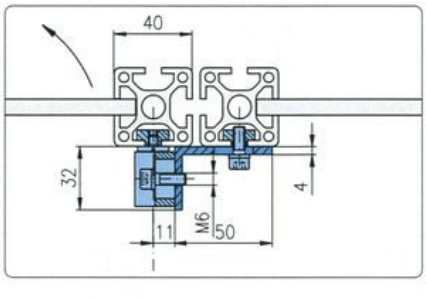






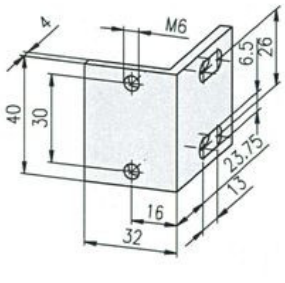
Description	Weight	Article-No.
Magnetic lock PA	38.0 g	1.65.2101

Angle bracket
for magnetic lock PA



Technical data

material:	aluminium
strength:	F22
surface:	natural anodised



Description	Weight	Article-No.
Angle bracket for magnetic lock PA	32.0 g	1.65.2301

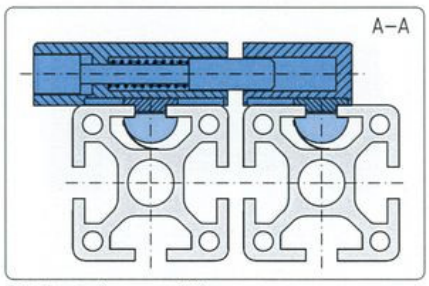
6

Lock GD-Zn

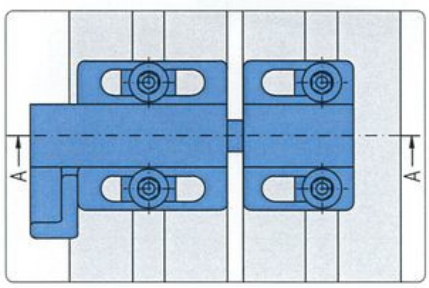
Application
Lock with sprung bolt for easy closing of doors and panels, including separate slot fastening capability

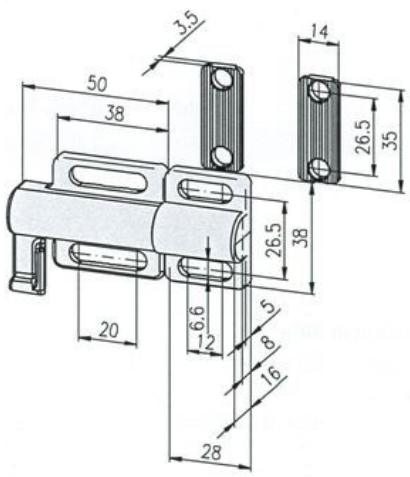
Technical data

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



Slot fastening capability





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

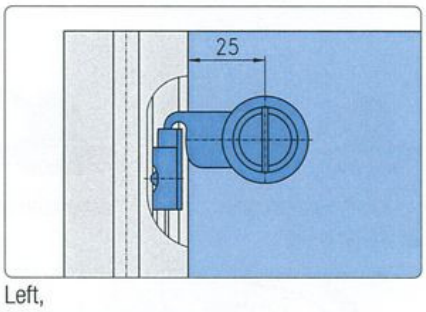
Cylinder locks

Application
Locking system for swinging and sliding doors

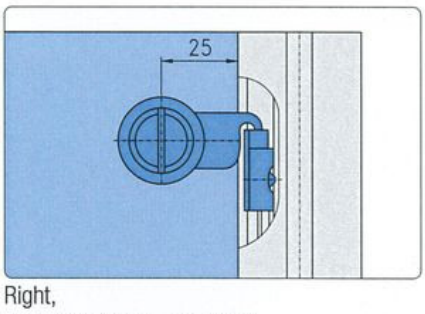
Technical data

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

Mounting position

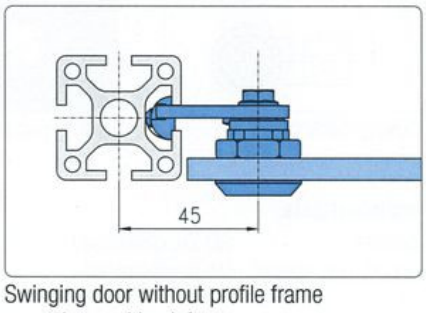


Left,
with tongue left, latch left

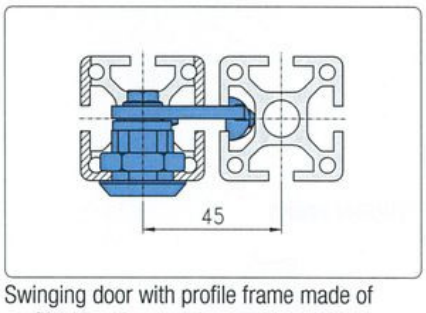


Right,
with tongue right, latch right

Mounting variants

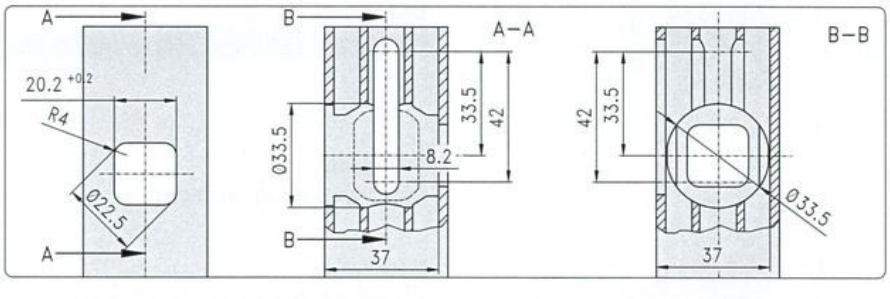


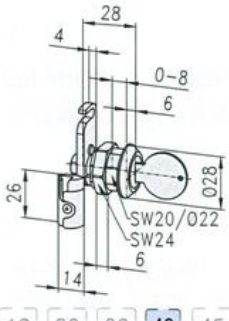
Swinging door without profile frame
mounting position left



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

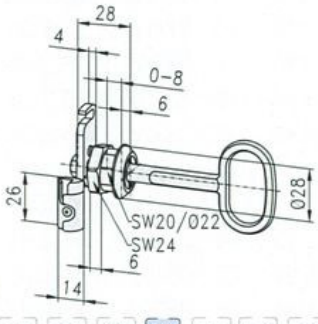
Installation dimensions





16 20 30 **40** 45 50 60

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



16 20 30 **40** 45 50 60

Comments
Key with double beard Ø8 mm

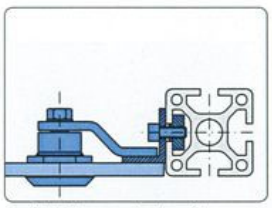
Description	Weight	Article-No.
Cylinder lock with double beard insert, left	100.0 g	1.65.3102.L
Cylinder lock with double beard insert, right	100.0 g	1.65.3102.R

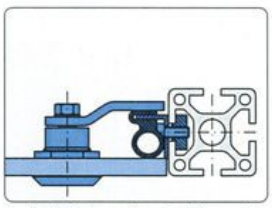
6

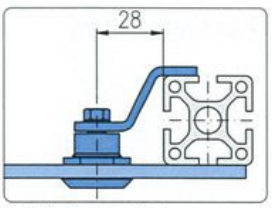
Cylinder locks
with security latch

Application
Lock for swinging door

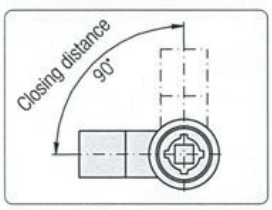
Comments
Security latch
Jolting- and vibrationless by integral lock


Installation variant with mounting angle

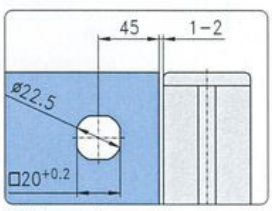

Installation variant with seal



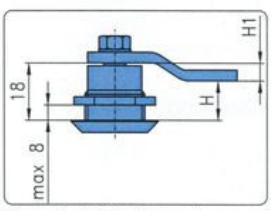
Installation variant



Closing distance

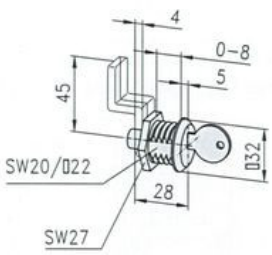


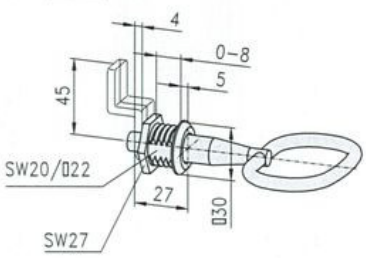
Drilling pattern



Security latch dimension
H1 = 18 - H

Cylinder locks





Technical data

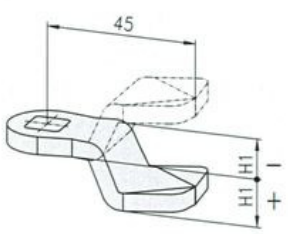
capsule:	GD Zn, galvanised
tongue, nut, screw:	steel, galvanised

Description	Weight	Article-No.
Cylinder lock with 2 keys, without security latch	66 g	1.65.3201

Comments
Socket wrench / square 8 mm

Description	Weight	Article-No.
Cylinder lock with 1 square key, without security latch	100 g	1.65.3202

Security latches



Description	H1	Weight	Article-No.
Security latch 45	14	29.5 g	1.65.3204
Security latch 45	12	28.5 g	1.65.3206
Security latch 45	10	27.5 g	1.65.3208
Security latch 45	8	27.3 g	1.65.3210
Security latch 45	5	26.5 g	1.65.3213
Security latch 45	4	26.0 g	1.65.3214
Security latch 45	2	27.0 g	1.65.3216
Security latch 45	0	26.5 g	1.65.3218
Security latch 45	-2	26.5 g	1.65.3220
Security latch 45	-4	26.0 g	1.65.3222
Security latch 45	-6	26.5 g	1.65.3224
Security latch 45	-7	27.5 g	1.65.3225
Security latch 45	-8	28.0 g	1.65.3226

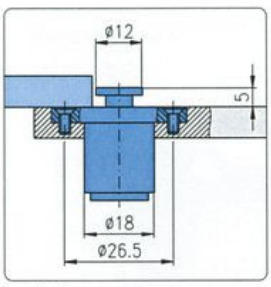
Description	H1	Weight	Article-No.
Security latch 45	-10	26.5 g	1.65.3228
Security latch 45	-12	27.5 g	1.65.3230
Security latch 45	-14	28.5 g	1.65.3232
Security latch 45	-16	32.0 g	1.65.3234
Security latch 45	-17	34.5 g	1.65.3235
Security latch 45	-18	33.5 g	1.65.3236
Security latch 45	-20	35.0 g	1.65.3238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

Flap-lock countersunk
for sliding door

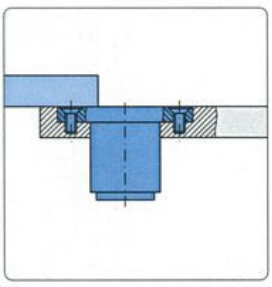
Application
Lock for sliding door

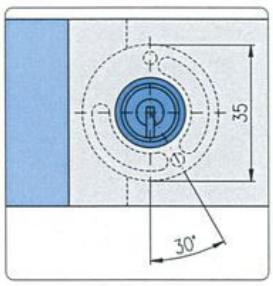
Technical data

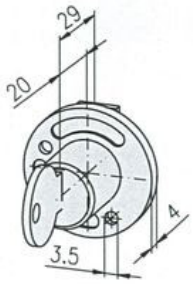
capsule:	GD Zn, chrome-plated
tongue and nut:	steel, galvanised



Locked


Open





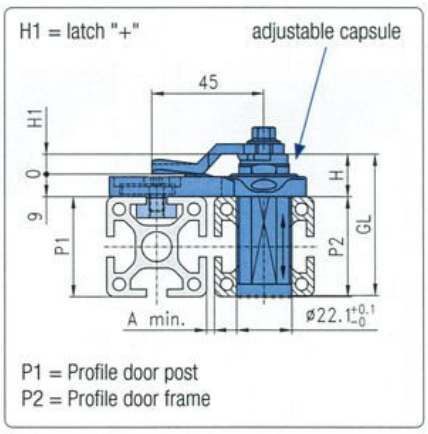
Description	Weight	Article-No.
Flap-lock countersunk, for sliding door	52 g	1.65.3301

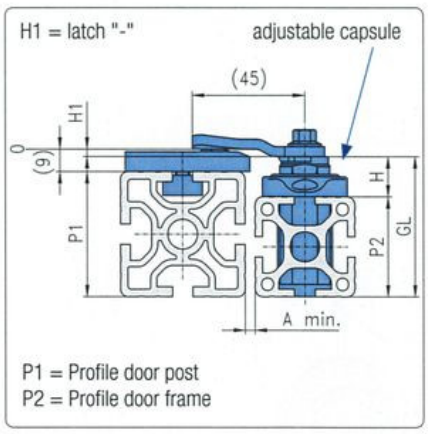
6

Cylinder locks flush

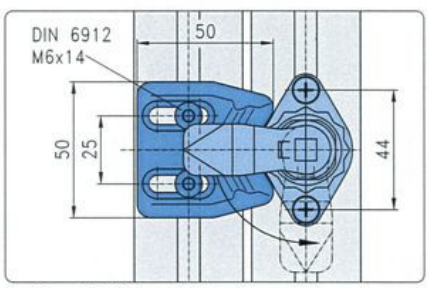
Application
Locking system for swinging doors

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





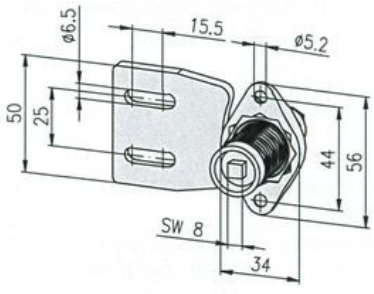
Outside: flush
(without jutout of lock parts)



Inside: with fixing plate

Profile			Capsule lock		Latch
Door post	Door frame	A min.	GL	H	H1
40	40	1.6	56	17	8
45	40	1.6	56	16	2
50	40	1.6	56	17	-2
60	40	1.6	56	16	-12

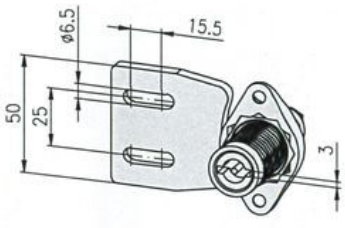
Cylinder locks flush



Delivery unit
- cylinder lock with fixing plate

Separate order
- key
- security latch

Description	GL	Weight	Article-No.
Cylinder lock flush, square	56	194.0 g	1.65.34156

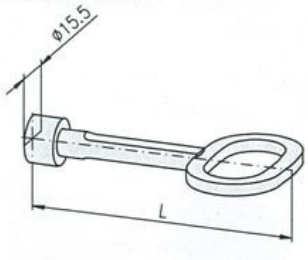


Delivery unit
- cylinder lock with fixing plate

Separate order
- key
- security latch

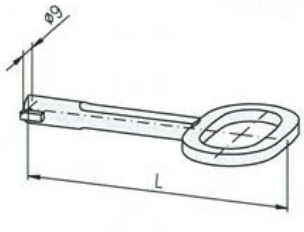
Description	GL	Weight	Article-No.
Cylinder lock flush, double beard	56	193.8 g	1.65.34356

Square keys



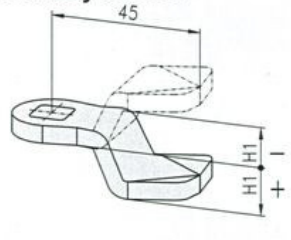
Description L	Material	Weight	Article-No.
Square key 8, 40 mm	PA-GF	7.5 g	1.65.34540
Square key 8, 81 mm	GD Zn	41.6 g	1.65.34581

Double beard keys

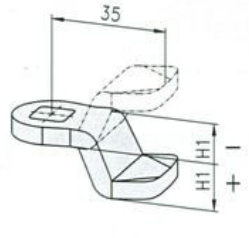


Description L	Material	Weight	Article-No.
Double beard key 3, 40 mm	PA-GF	6.4 g	1.65.34740
Double beard key 3, 89 mm	GD Zn	35.8 g	1.65.34789

Security latches



Description H1	Weight	Article-No.
Security latch 45 12	30.3 g	1.65.3206
Security latch 45 8	27.3 g	1.65.3210
Security latch 45 2	26.8 g	1.65.3216
Security latch 45 -2	27.4 g	1.65.3220
Security latch 45 -8	27.3 g	1.65.3226
Security latch 45 -12	30.3 g	1.65.3230



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

6

Mortise deadlocks

Application

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

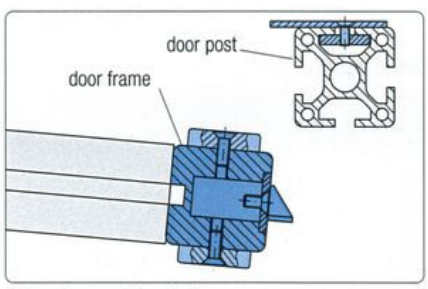
Technical data

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

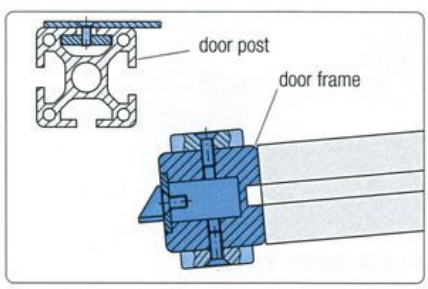
Door lock without lock insert and handles both sides

Door lock with cylinder lock and handles both sides

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



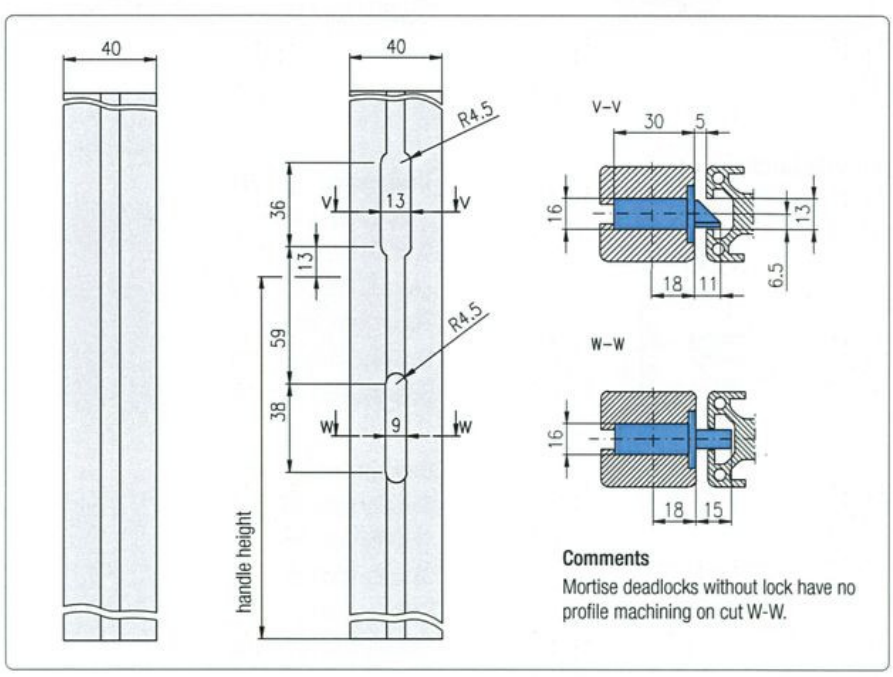
Mounting position left



Mounting position right

Profile machining

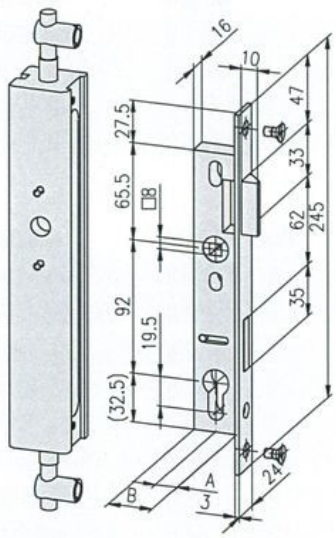
for door post



Comments

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

Mortise deadlock installation sets
without lock



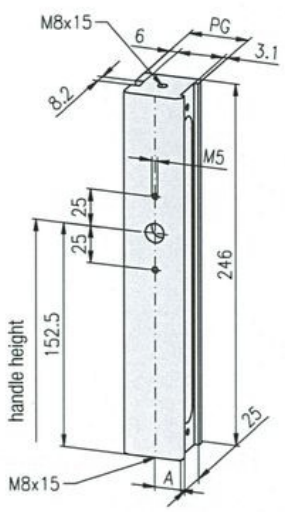
Comments
Drawing shows mounting position left,
mirror image mounting position right

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

Single parts

Description	Pcs.	Weight	Article-No.
Mortise deadlock case without lock PG 40	1	665 g	1.65.4101x40
Mortise deadlock case without lock PG 45	1	790 g	1.65.4101x45
Mortise deadlock left, PG 40	1	412 g	1.65.4211L40
Mortise deadlock right, PG 40	1	412 g	1.65.4211R40
Mortise deadlock left, PG 45	1	430 g	1.65.4211L45
Mortise deadlock right, PG 45	1	430 g	1.65.4211R45
Screw connector PG 40	2	55 g	1.21.4S1M8-11
Screw connector PG 45	2	64 g	1.21.45S1M8-11
Countersunk screw DIN 7991 - M5×12	2	2 g	0.63.D07991.05012

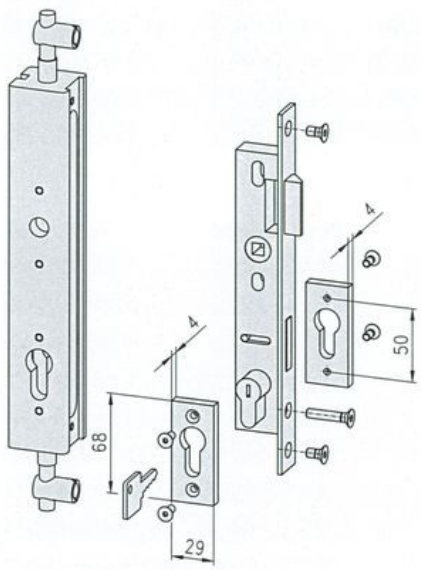
Mortise deadlock cases
without lock



16 20 30 40 45 50 60

Description	A	B	Weight	Article-No.
Mortise deadlock case without lock				
mounting position le/ri, PG 40	18	30	665 g	1.65.4101x40
mounting position le/ri, PG 45	20	32	790 g	1.65.4101x45

Mortise deadlock installation sets
with lock



Dimensions ☛ *6.45, drawing „Mortise deadlock installation sets without lock“*

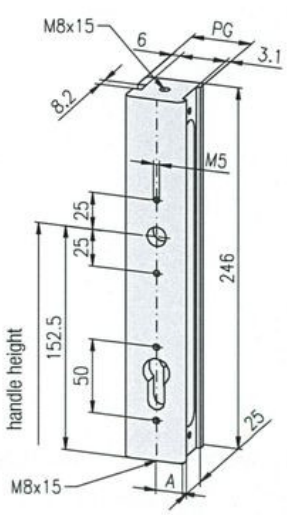
Comments
Drawing shows mounting position left,
mirror image mounting position right

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	1.21.45S1M8-11
Lock insert with 2 keys, PG 40	1	188 g	1.65.421240
Lock insert with 2 keys, PG 45	1	196 g	1.65.421245
Countersunk screw DIN 7991 - M5×12	2	2 g	0.63.D07991.05012
Countersunk screw DIN 7991 - M5×30	1	4 g	0.63.D07991.05030
Rosette, set	1	25 g	1.65.4213
Countersunk screw DIN 7991 - M5×12	4	2 g	0.63.D07991.05012

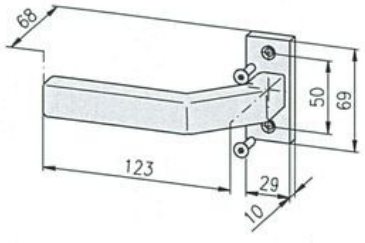
Mortise deadlock cases
with lock



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

Description	A	B	Weight	Article-No.
Mortise deadlock case with lock				
mounting position L/R, PG 40	18	30	620 g	1.65.4102x40
mounting position L/R, PG 45	20	32	740 g	1.65.4102x45

Door handle



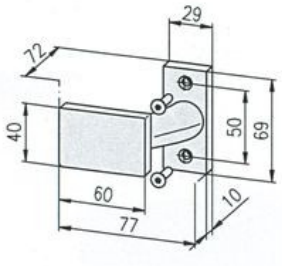
Technical data
material: LM
surface: natural anodised

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

Single parts

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

Door knob



Technical data
material: LM
surface: natural anodised

Comments
Door knob fixed

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

Single parts

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

Push pins

Technical data
material: steel
surface: galvanised

Comments
Stop pin for 1 door handle variant only

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

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

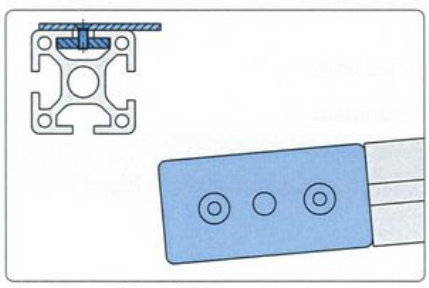
Bar locks

Bar lock with olive

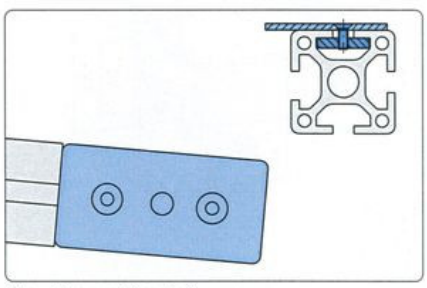
Application

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

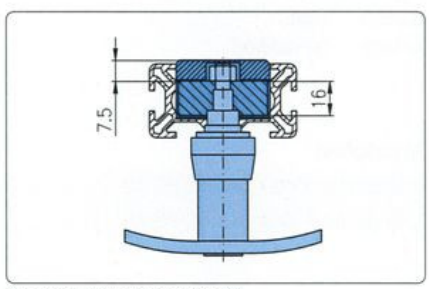
Bar lock with socket wrench



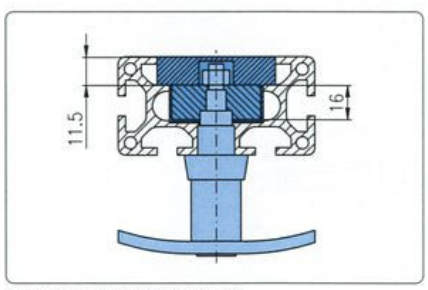
Mounting position right



Mounting position left

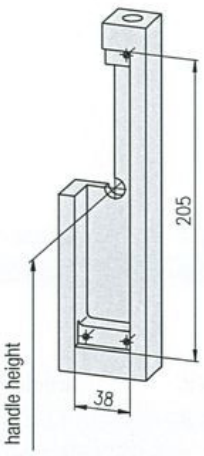


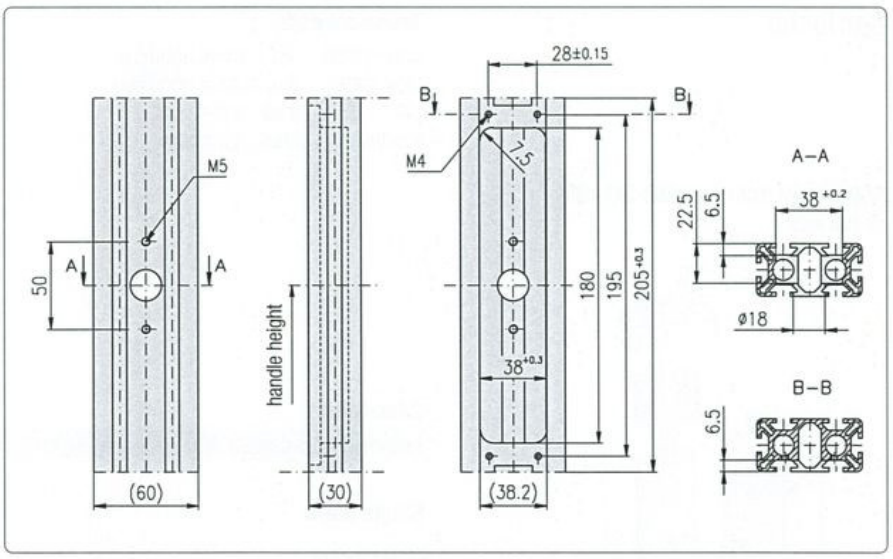
Mounting in profile 30×60



Mounting in profile 40×80

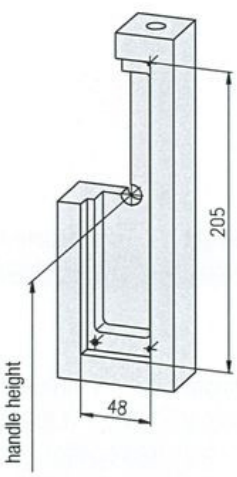
Profile machining 30×60
for bar lock

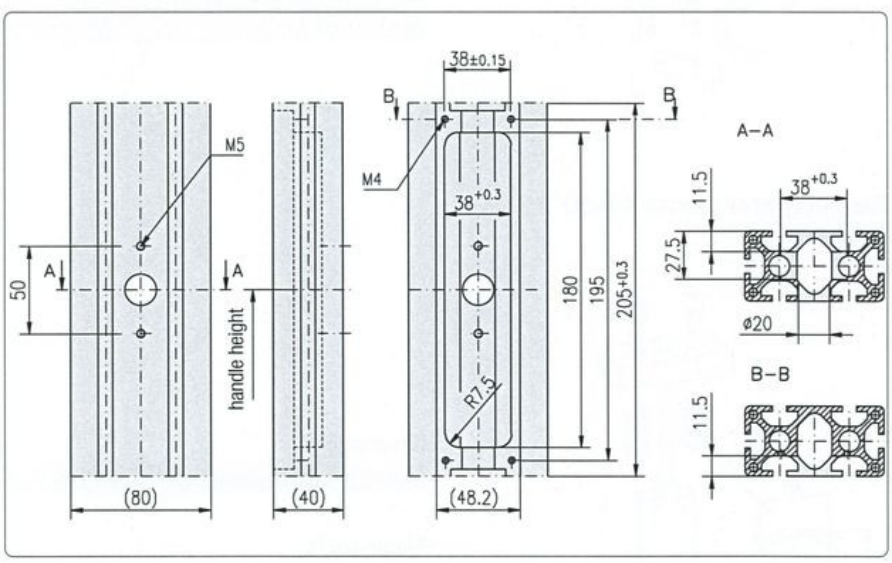




Description	Article-No.
Profile machining 30×60 for bar lock	1.65.5110

Profile machining 40×80
for bar lock

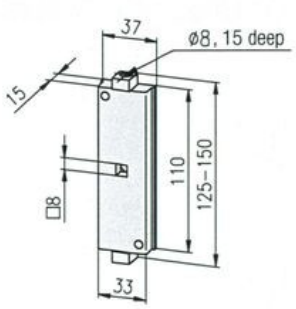




Description	Article-No.
Profile machining 40×80 for bar lock	1.65.5120

6

Bar locks



Technical data
material: steel
surface: galvanised

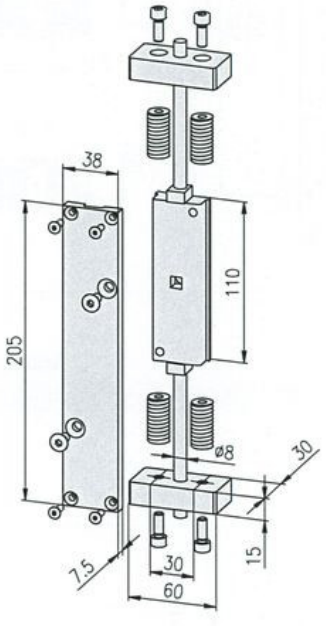
Description	Weight	Article-No.
Bar lock, left side	230 g	1.65.5210L
Bar lock, right side	230 g	1.65.5210R

Bar locks

Technical data

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

Assembly accessories 30×60
for bar lock

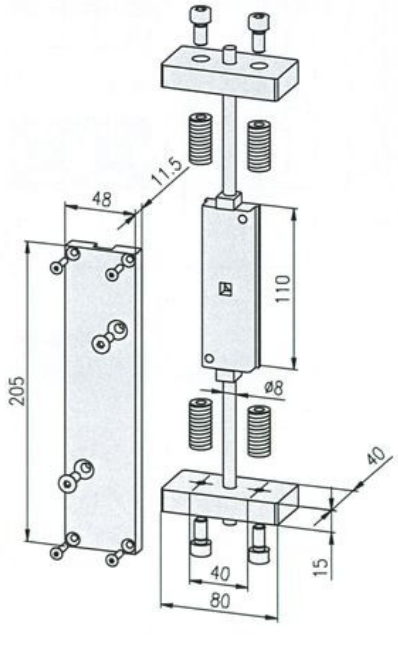


Description	Weight	Article-No.
Assembly accessories 30×60 for bar lock	590 g	1.65.5310

Single parts

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

Assembly accessories 40×80
for bar lock

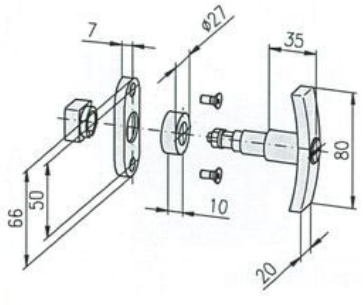


Description	Weight	Article-No.
Assembly accessories 40×80 for bar lock	800 g	1.65.5320

Single parts

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

Olive installation set
for bar lock



Technical data
material: GD-Zn, chrome-plated

Comments
Execution for profile 30×60 = with rosette
Execution for profile 40×80 = without rosette

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

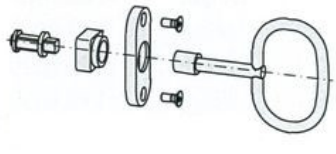
Single parts

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

Lock mounting set

Technical data
lock insert: GD-Zn, galvanised
key: GD-Zn, galvanised
rosette: LM, natural anodised
key catch: PVC, grey

with square key
for bar lock

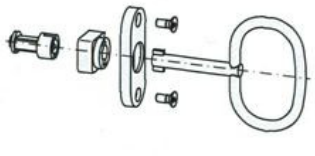


Description	Weight	Article-No.
Lock mounting set with square key		
for bar lock	73 g	1.65.5600

Single parts

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

with double beard key
for bar lock

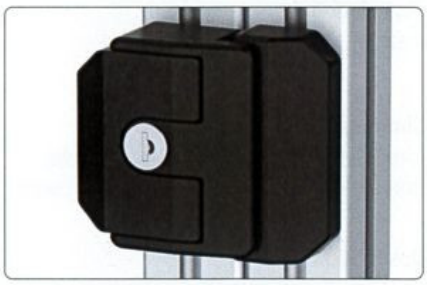


Description	Weight	Article-No.
Lock mounting set with double beard key		
for bar lock	73 g	1.65.5700

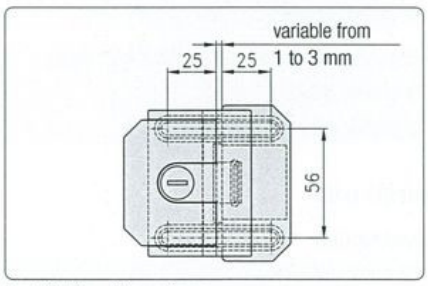
Single parts

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

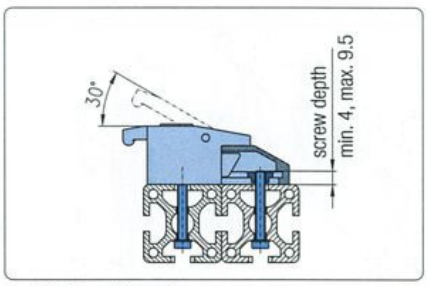
Latch locks



Application
Door lock with small jutout



Installation dimensions

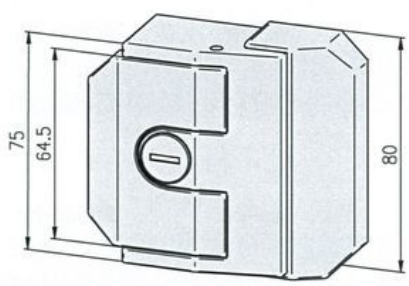


Installation dimensions

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

Mounting elements
- cap-screw DIN 6912, M6
- washer DIN 433-6.4

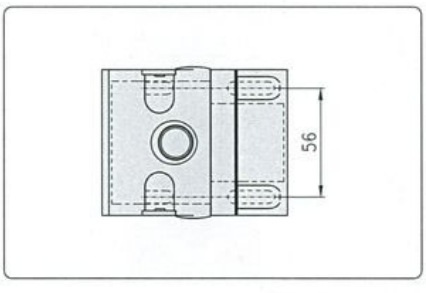
Delivery unit
- latch lock
- 4 nuts M6
- 2 keys (by variant with lock)
- cover plug (by variant without lock)

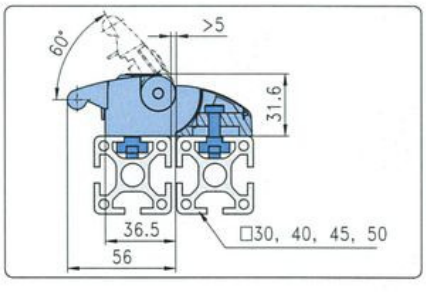


Description	Weight	Article-No.
Latch lock without lock	560 g	1.65.6010
Latch lock with lock, all keyed alike	560 g	1.65.6020
Latch lock with lock, keyed different	560 g	1.65.6030

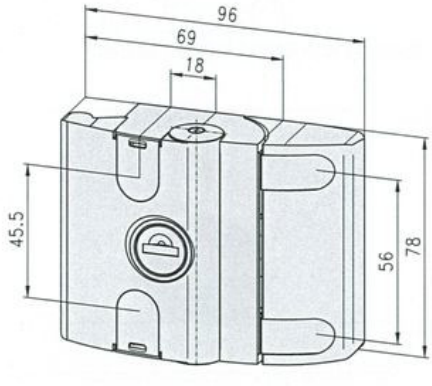
Latch locks
for sliding door

Application
For easy and secure closing of doors and flaps.
Mounting without mechanical processing.
Secured against disassembly when closed.



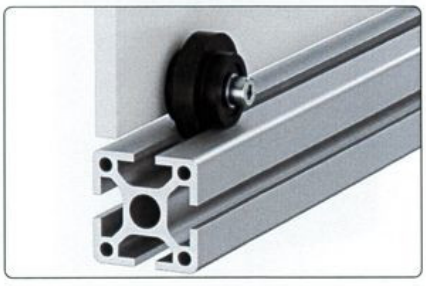


Technical data
material: Aluminum die casting
colour: black, powder coated

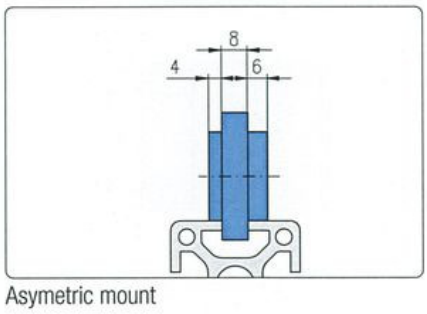


Description	Weight	Article-No.
Latch lock for sliding door, without lock	266 g	1.65.7010
Latch lock for sliding door, with lock, all keyed alike	246 g	1.65.7020
Latch lock for sliding door, with lock, keyed different	246 g	1.65.7030

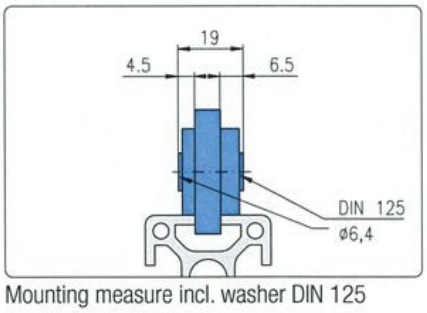
Roller 39



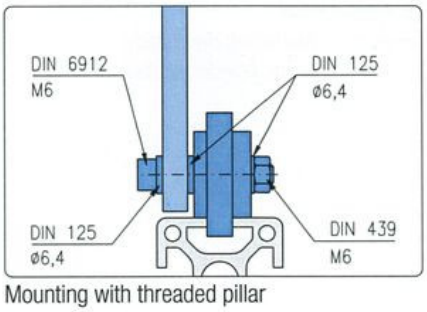
Application
Roller for guiding in the 8 mm profile slot for sliding doors



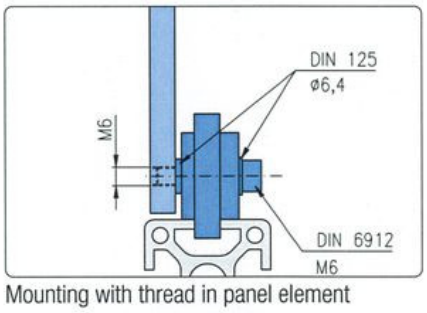
Asymetric mount



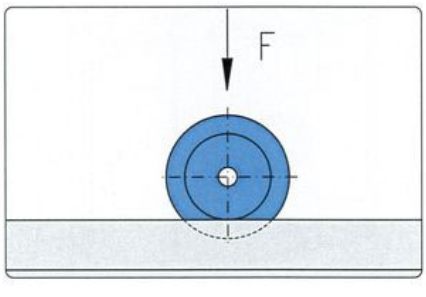
Mounting measure incl. washer DIN 125



Mounting with threaded pillar



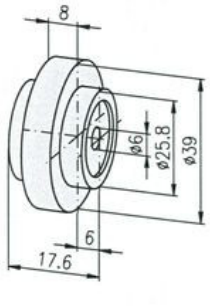
Mounting with thread in panel element



Technical data

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

Comments
2 deep grooved ball bearings with 2 cover discs

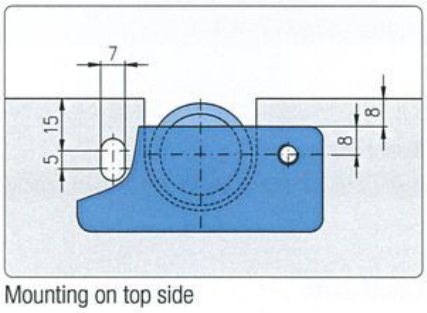


Description	Weight	Article-No.
Roller 39	32 g	1.66.1395

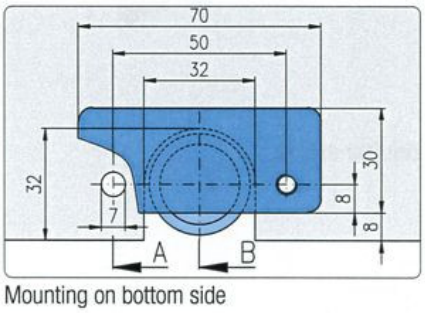
Roller fastening sets type A

Roller fastening set type A, one-sided

Roller fastening set type A, double-sided



Mounting on top side



Mounting on bottom side

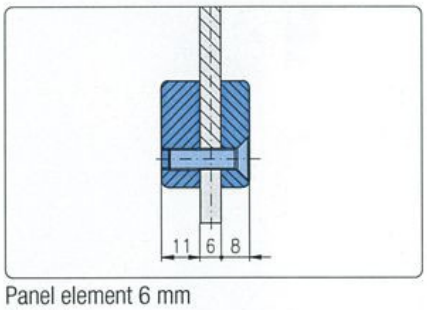
Application

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

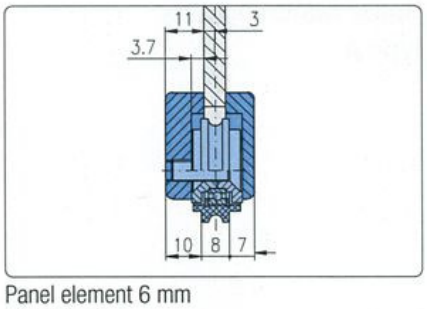
Comments

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

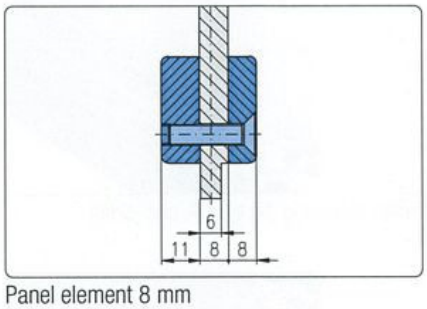
Roller fastening sets type A



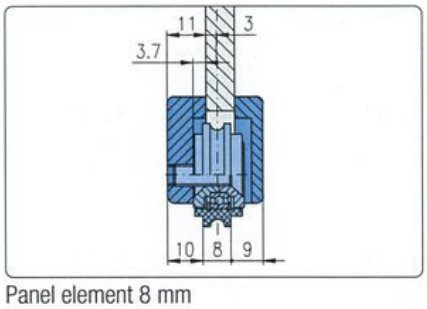
Panel element 6 mm
View A - A



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

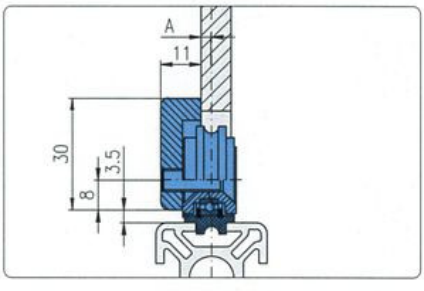
Description	Pcs.	Weight	Article-No.
Roller bracket type A, right	1	16.0 g	1.66.5298
Roller bracket type A, left	1	21.0 g	1.66.5299
Roller 29	1	12.0 g	1.66.2290
Countersunk screw DIN 7991 - M6×20	1	4.5 g	0.63.D07991.06020
Countersunk screw DIN 7991 - M6×25	2	5.5 g	0.63.D07991.06025

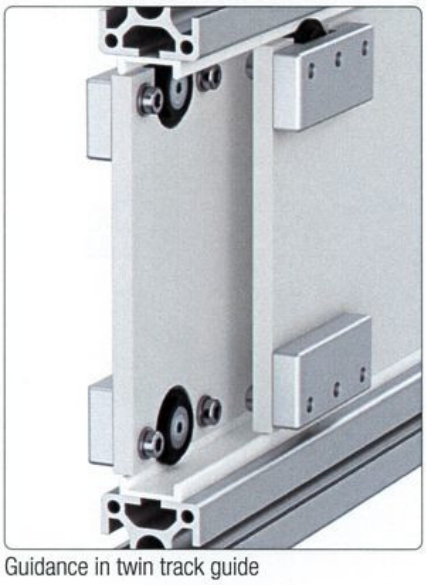
Roller fastening sets type B

Guidance in profile slot

Application

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

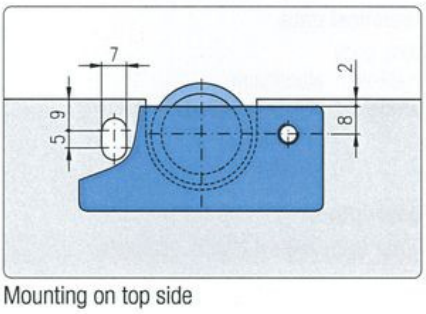




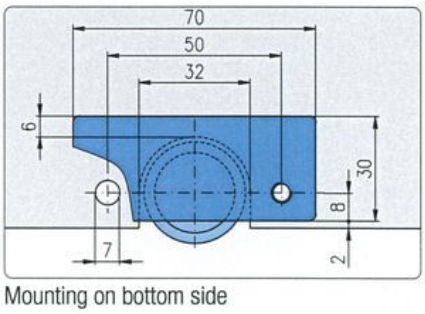
Guidance in twin track guide

Comments

Mounting position of roller optional
A = 1.7 mm
2.7 mm



Mounting on top side

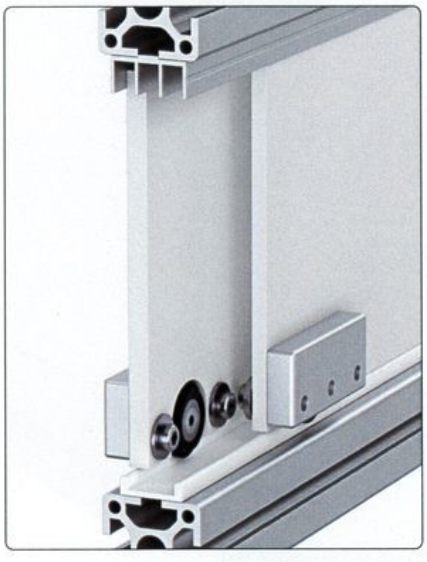


Mounting on bottom side

Comments

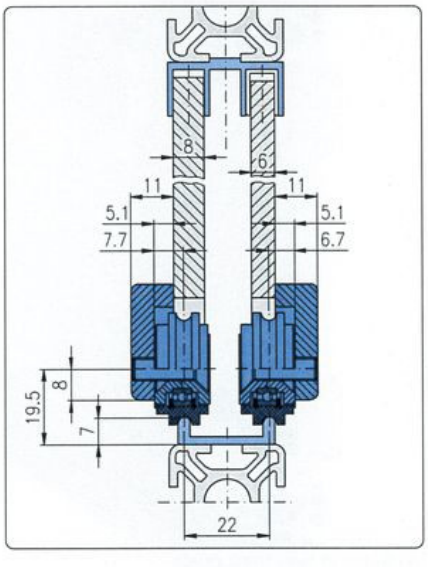
The elongated hole in the panel element allows to adjust the height tolerance and to unhinge the sliding door

Roller fastening sets type B

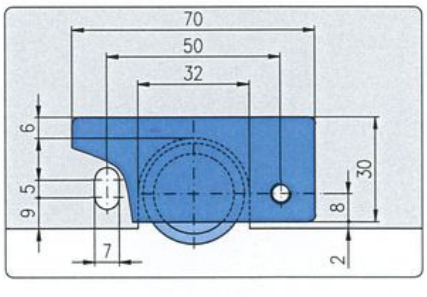


Application
Guidance of sliding door
on top: sliding profile 30×14
on bottom: twin track guide with profile

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

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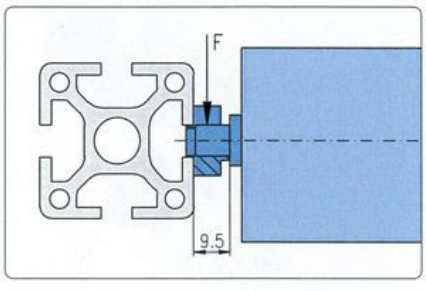
Description	Weight	Article-No.
Roller fastening set type B, complete	62 g	1.66.5360

Single parts

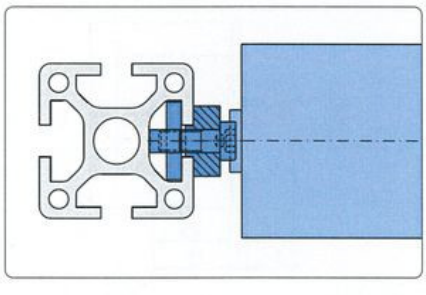
Description	Pcs.	Weight	Article-No.
Roller bracket type B	1	21.0 g	1.66.5399
Roller 29	1	12.0 g	1.66.2290
Countersunk screw DIN 7991 - M6×20	1	4.5 g	0.63.D07991.06020
Cap-screw DIN 6912 - M6×20	2	5.0 g	0.63.D06912.06020
Washer DIN 6340 - 6.4	2	4.0 g	0.62.D06340.06.4

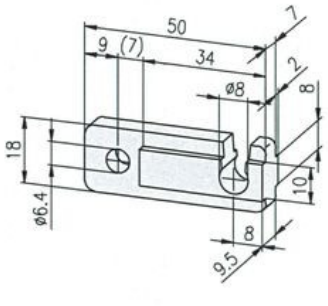
Mounting adaptor for roller

Application
For fastening of rollers



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





Technical data
material: PA, black

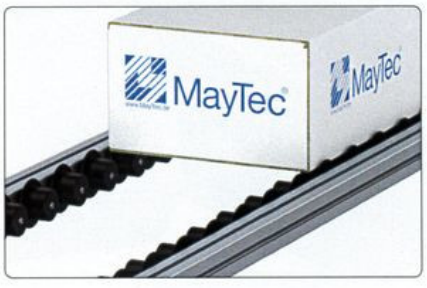
Mounting elements

F-slot:	threaded plate F M6	1.31.FM6
E-slot:	threaded plate E M6	1.31.EM6
	threaded plate, heavy E M6	1.31.6EM6

cap-screw DIN 6912, M6

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

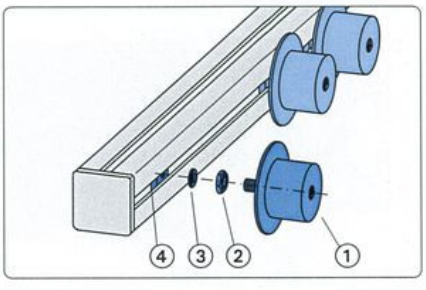
Edge roller



Application

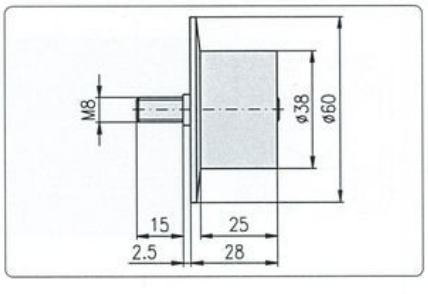
Roller conveyors for transporting boxes and containers

- low noise
- low friction operation due to double ball bearings
- simple assembly



Single parts

① edge roller
② hexagon nut
③ shim
④ threaded plate



Technical data

material:
- roller: impact resistant plastic
- axle: galvanised

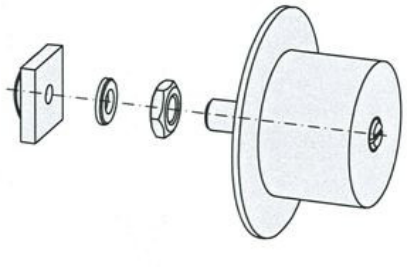
colour:
- roller: black

bearings: steel or stainlessball bearings on galvanised steel bolt

loading capacity:
- static: 50 N
- dynamic: 100 N

Mounting elements

threaded plate E M8	1.31.EM8
hexagon nut DIN 934 - M8	0.61.D00934.08
washer DIN 125 - 8.4	0.62.D00125.A08.4

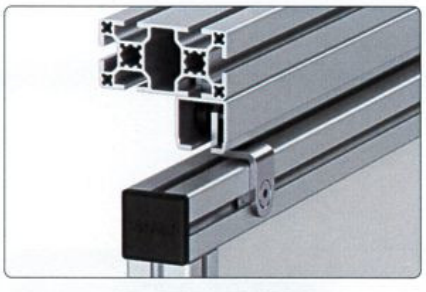


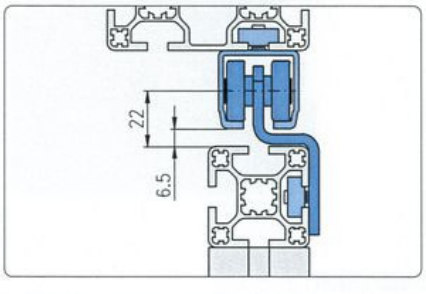
Description	Weight	Article-No.
Edge roller E	51.0 g	1.66.7523860

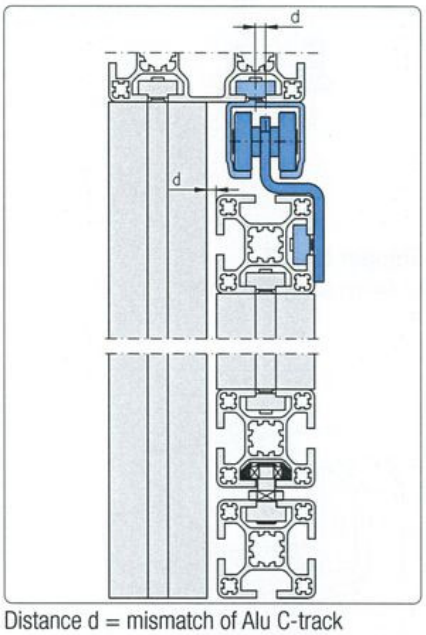
6

Runner
for sliding suspended doors

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

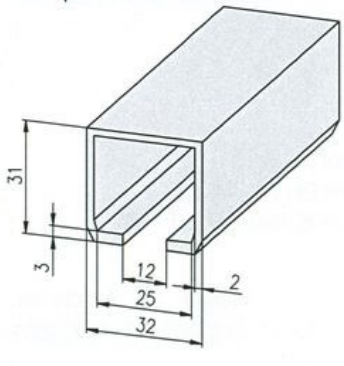






Distance d = mismatch of Alu C-track

Alu C-track
for suspended doors

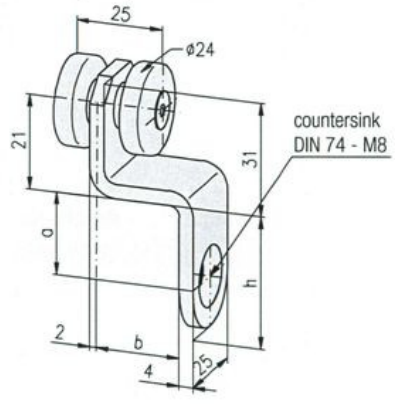


Technical data
bar length: 6 m
material: aluminium
surface: natural anodised

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

/... = length in mm

Runner
for sliding suspended door



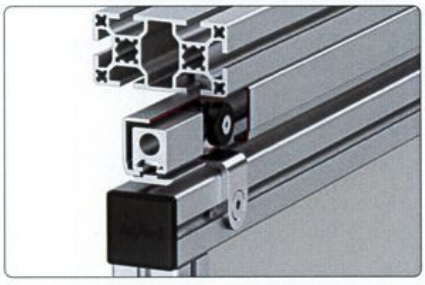
Technical data
material:
- strap: VA
- bolt: C45 K
- distance bush: AlMg3

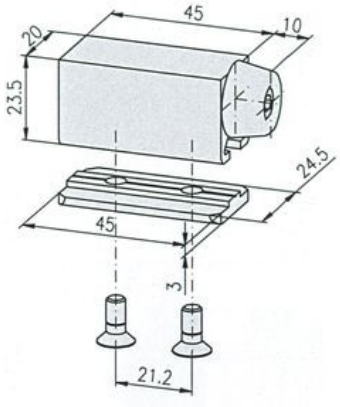
max. load capacity: 100 kg

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

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

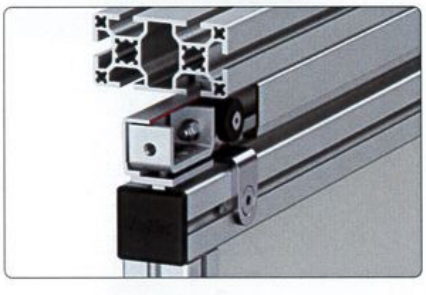
Stopper type 1
for sliding suspended door

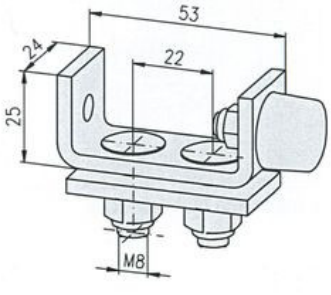




Description	Weight	Article-No.
Stopper type 1 for sliding suspended door, complete	63 g	1.66.8201055

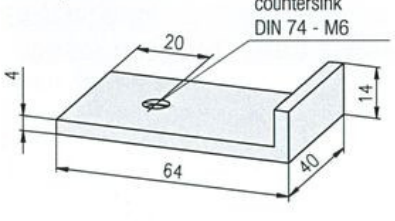
Stopper type 2
for sliding suspended door





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

Frame guide
for suspended door

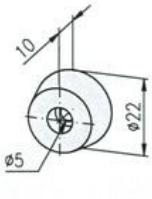


Technical data
material: aluminium
surface: natural anodised

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

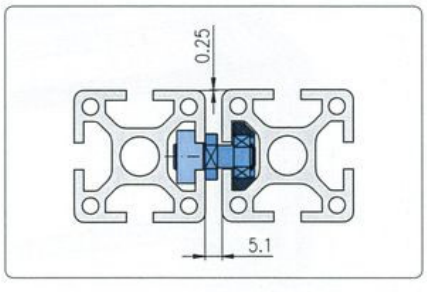
6

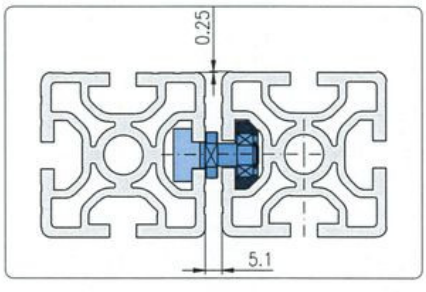
Slot rollers

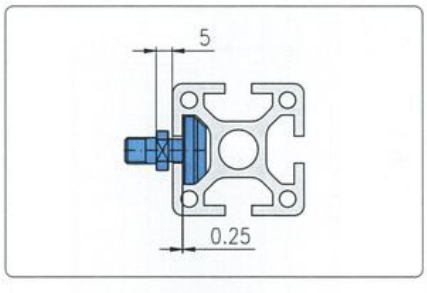
Application
For light running sliding doors

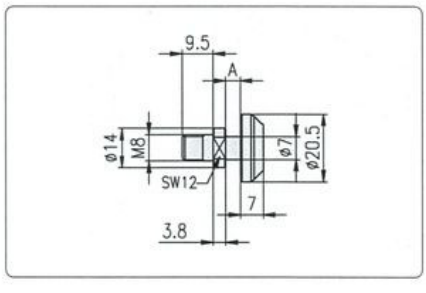
Technical data

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



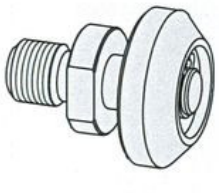




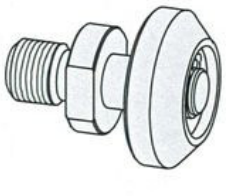


Fastening elements (optional)

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



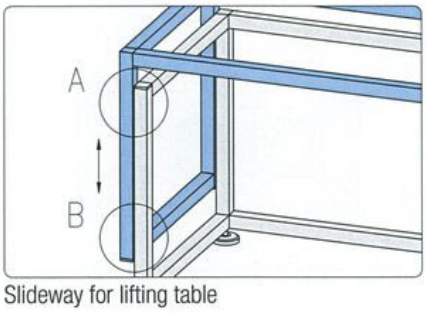
Description	A	Weight	Article-No.
Slot roller E3	4.45	24 g	1.67.42E3M8



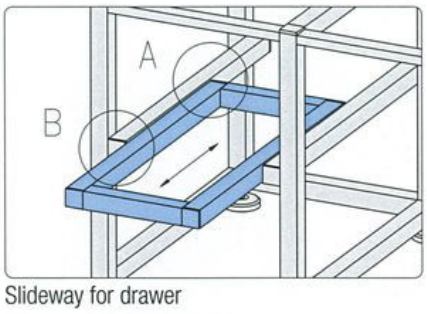
Description	A	Weight	Article-No.
Slot roller E4	5.45	24 g	1.67.42E4M8

Guidance system

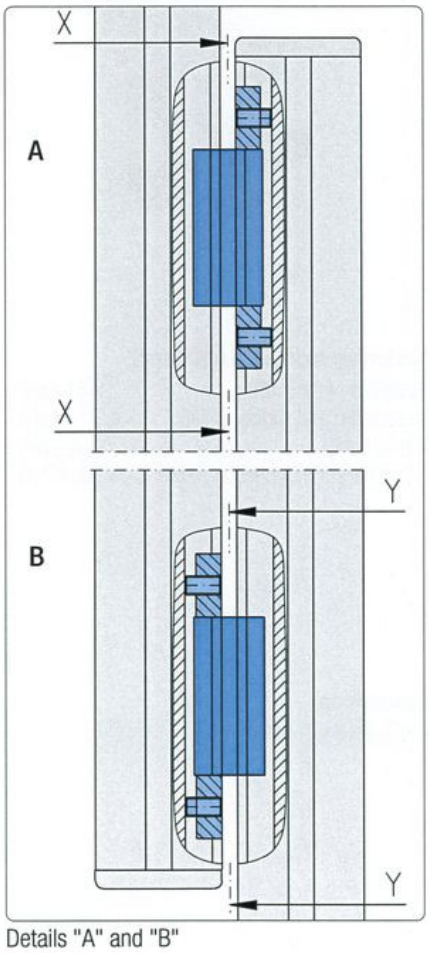
Application
Slideway with sliding blocks e.g. for lifting tables and drawers



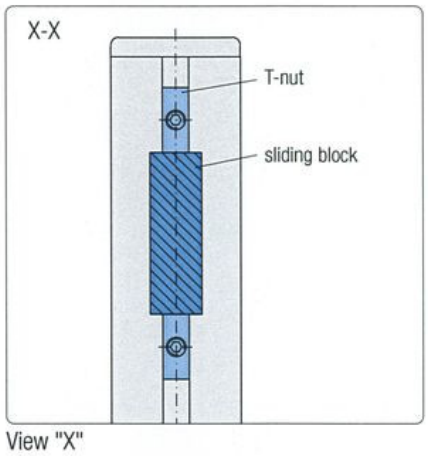
Slideway for lifting table



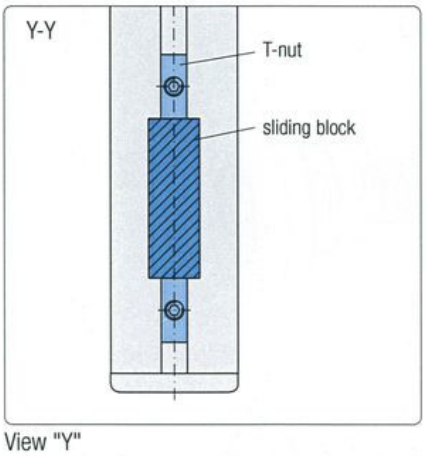
Slideway for drawer



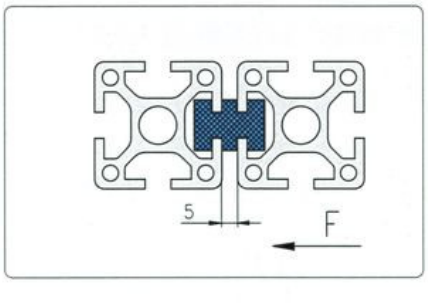
Details "A" and "B"



View "X"

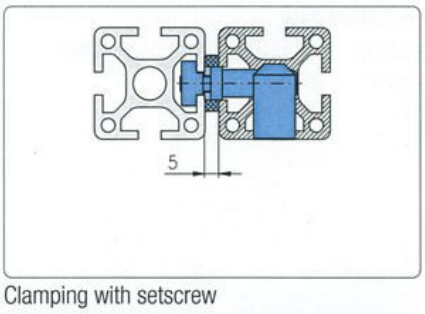


View "Y"

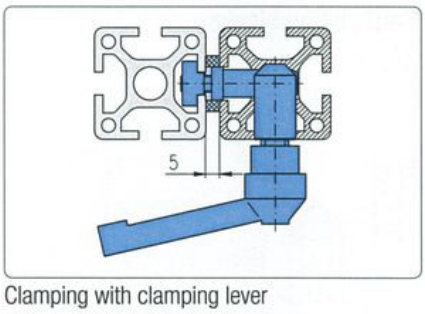


6

Clamping
for guidance system



Clamping with setscrew



Clamping with clamping lever

Single parts for clamping

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

Connector

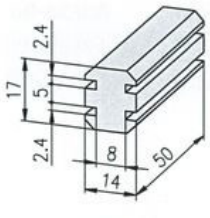
Description	for profile	Article-No.
Connector, screw-typee, parallel, M8	30×30	1.21.3-4S5M8-7
Connector, screw-typee, parallel, M8	40×40	1.21.4-5S5M8-11
Connector, screw-typee, parallel, M8	45×45	1.21.45-55S5M8-11
Connector, screw-typee, parallel, M8	50×50	1.21.5-6S5M8-11
Connector, screw-typee, parallel, M8	60×60	1.21.6S1M8-11

Sliding blocks

Technical data

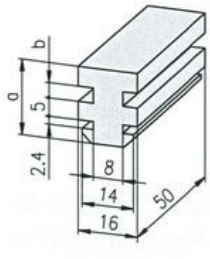
material: PA6G oil, (murlubric or similar)
colour: black
max. carrying capacity: p = 20 N/mm²
at • temperature 20°C
• velocity 1 m/sec

Comments
raw finish on request



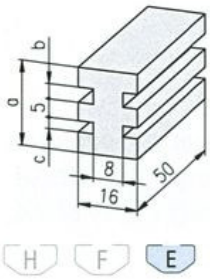
H F E

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



H F E

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



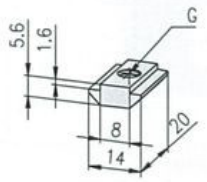
H F E

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

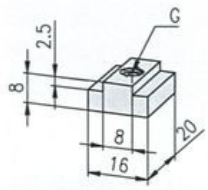
Technical data
material: PA6G oil (murlubric or similar)
colour: black

Comments
raw finish on request



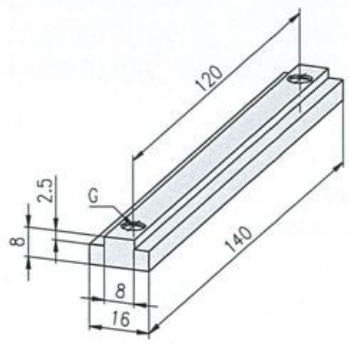
H F E

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



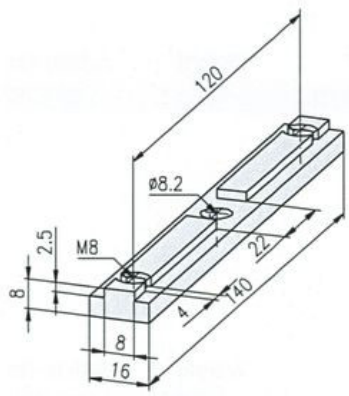
H F E

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



H F E

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

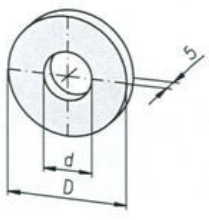


H F E

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

Distance washer

Technical data
material: PVC
colour: grey



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

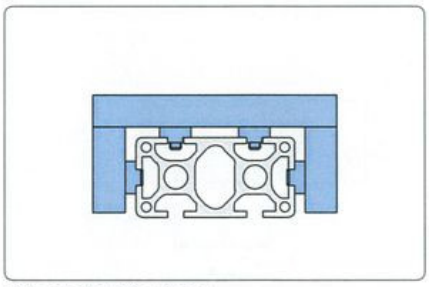
6

Eco-Slides

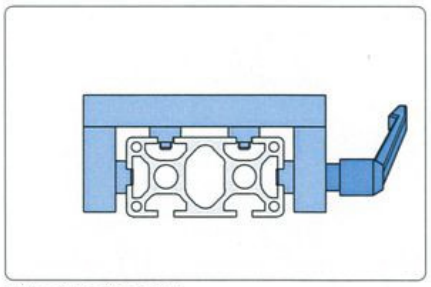
Application

Sliding carriage in variable, simple and rugged design with low sliding resistance

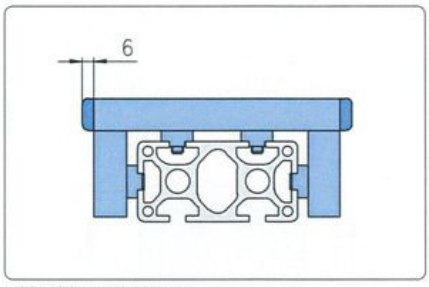
High tolerance adjustment for width and height



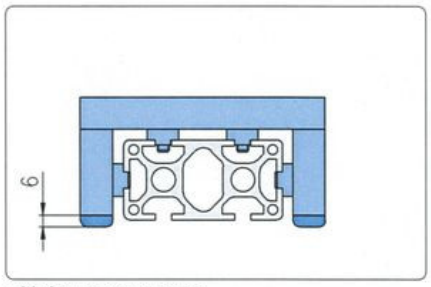
without clamping lever



with clamping lever

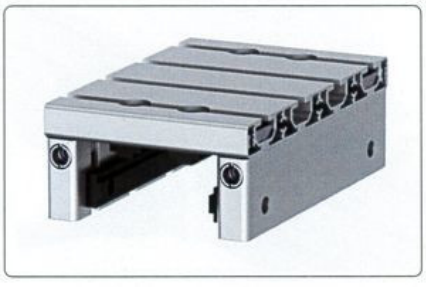


with side cover caps

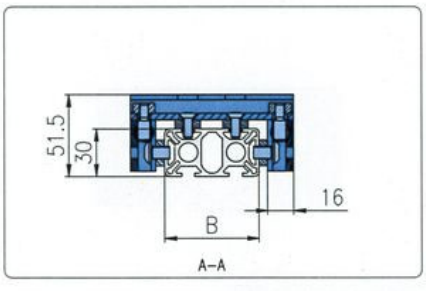


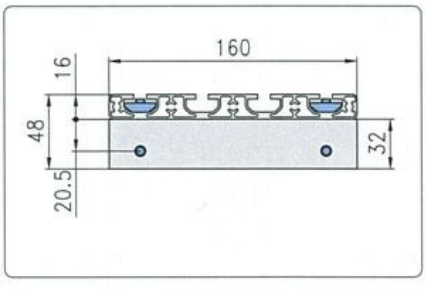
with lower cover caps

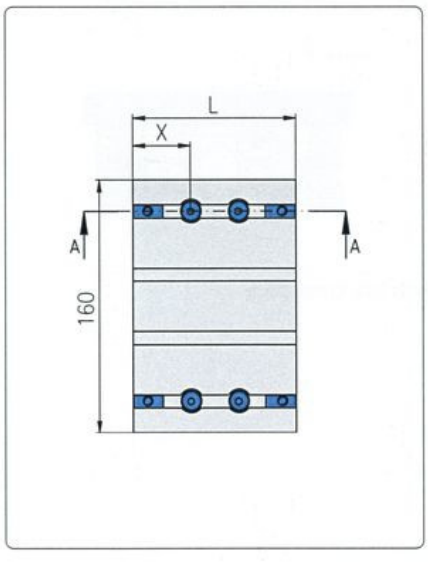
Eco-Slide
for profile group 30
F-slot



Technical data
loading capacity: max. 1,000 N







6

Width of profile

30 mm

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

60 mm

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

100 mm

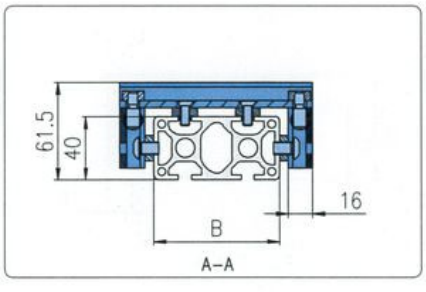
Description	B	X	L	Weight	Article-No.
Eco-Slide, PG 30 - 100F		46,5	143	720 g	1.67.S101.030100F
Eco-Slide, PG 30 - 100F, with clamping lever		46,5	143	759 g	1.67.S102.030100F

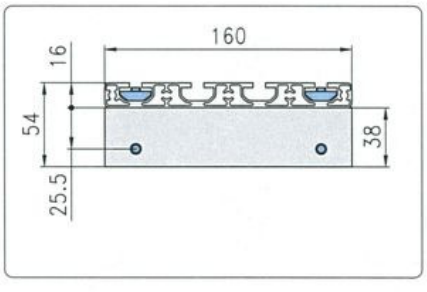
150 mm

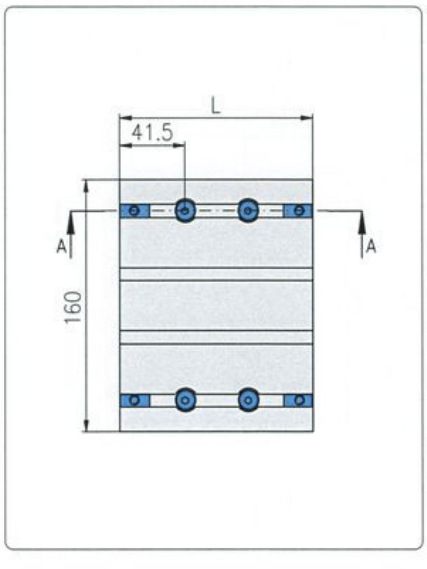
Description	B	X	L	Weight	Article-No.
Eco-Slide, PG 30 - 150F		46,5	193	810 g	1.67.S101.030150F
Eco-Slide, PG 30 - 150F, with clamping lever		46,5	193	849 g	1.67.S102.030150F

Eco-Slide
for profile group 40
E-slot

Technical data
loading capacity: max. 1,000 N







Width of profile

40 mm

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

80 mm

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

120 mm

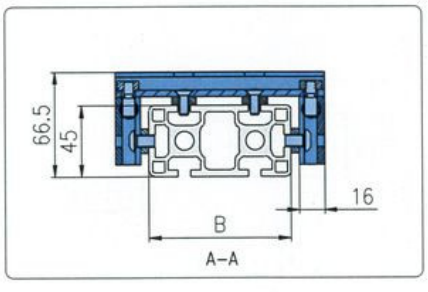
Description	B	L	Weight	Article-No.
Eco-Slide, PG 40 - 120E		163	790 g	1.67.S101.040120E
Eco-Slide, PG 40 - 120E, with clamping lever		163	829 g	1.67.S102.040120E

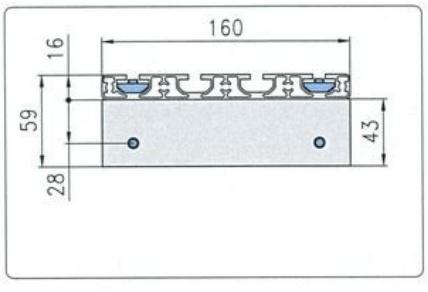
160 mm

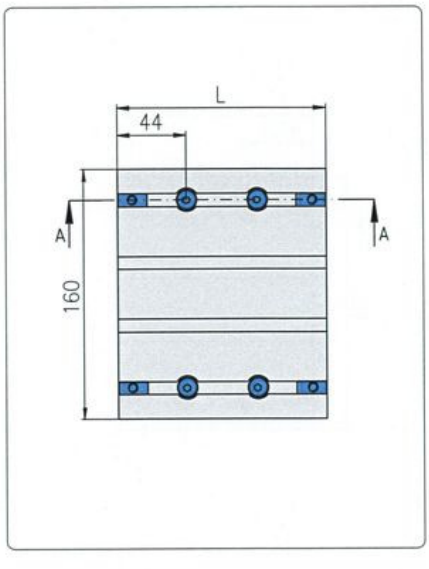
Description	B	L	Weight	Article-No.
Eco-Slide, PG 40 - 160E		203	910 g	1.67.S101.040160E
Eco-Slide, PG 40 - 160E, with clamping lever		203	949 g	1.67.S102.040160E

Eco-Slide
for profile group 45
E-slot

Technical data
loading capacity: max. 1,000 N







Width of profile

45 mm

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

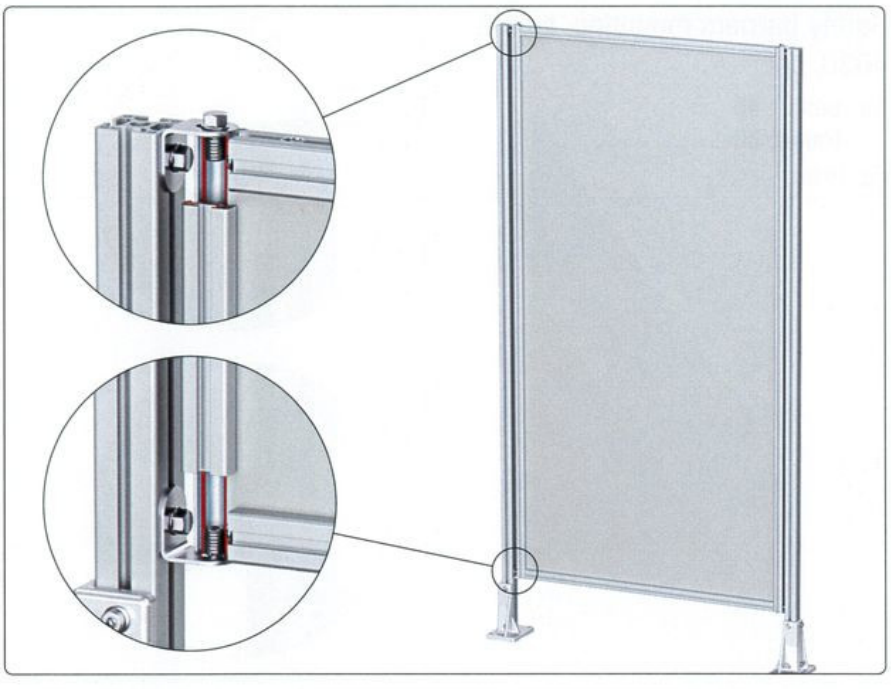
90 mm

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

Safety barriers mounting, type 1 4030, cpl.

for post: 40
frame: 30

gap 12.5 mm



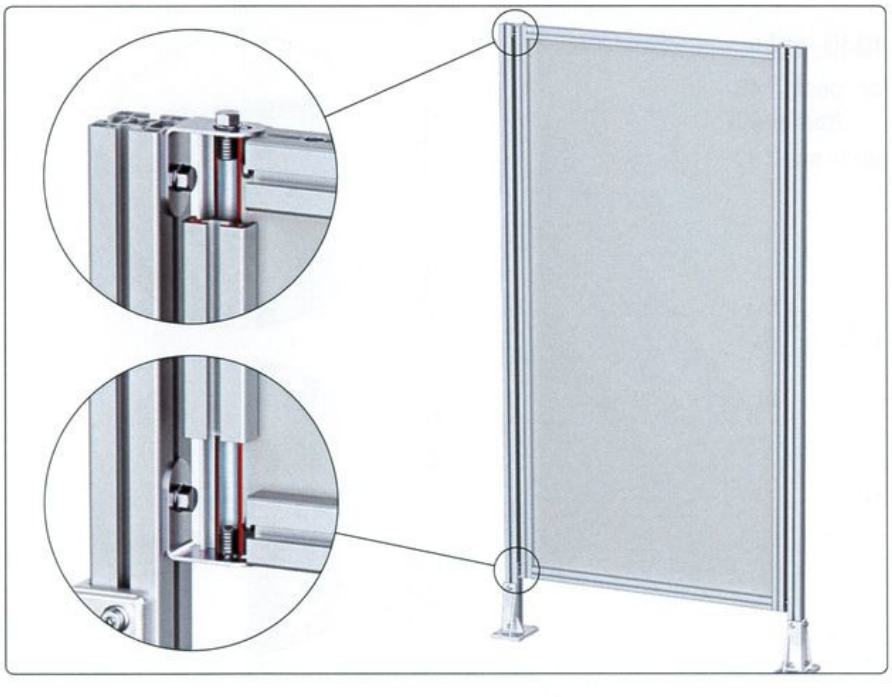
Description		Weight	Article-No.
Safety barriers mounting, type 1, 4030, cpl.		303.2 g	1.68.1.1.4030
Assemblies	**Pcs**	**Weight**	**Article-No.**
Safety barriers mounting, type 1, 4030, top	2	77.3 g	1.68.1.1.4030.1
Safety barriers mounting, type 1, 4030, bottom	2	74.3 g	1.68.1.1.4030.2

Single parts ☛ *6.74*

4540, cpl.

for post: 45
frame: 40

gap 12.5 - 22.5 mm



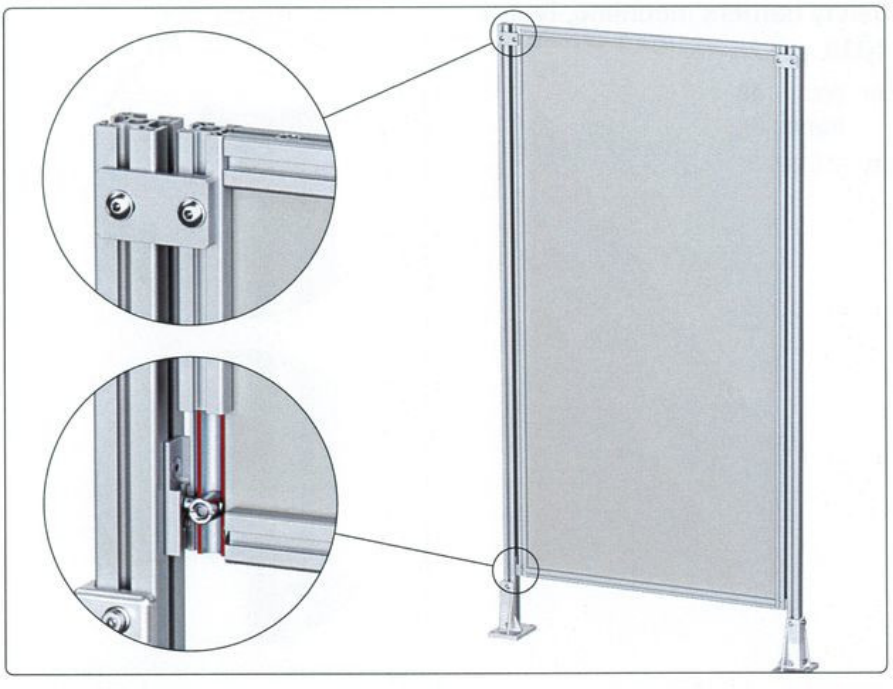
Description		Weight	Article-No.
Safety barriers mounting, type 1, 4540, cpl.		371.2 g	1.68.1.1.4540
Assemblies	**Pcs**	**Weight**	**Article-No.**
Safety barriers mounting, type 1, 4540, top	2	94.3 g	1.68.1.1.4540.1
Safety barriers mounting, type 1, 4540, bottom	2	91.3 g	1.68.1.1.4540.2

Single parts ☛ *6.75*

Safety barriers mounting, type 2 4030, cpl.

for post: 40
frame: 30

gap 10 mm



Description		Weight	Article-No.
Safety barriers mounting, type 2, 4030, cpl.		241.0 g	1.68.2.1.4030

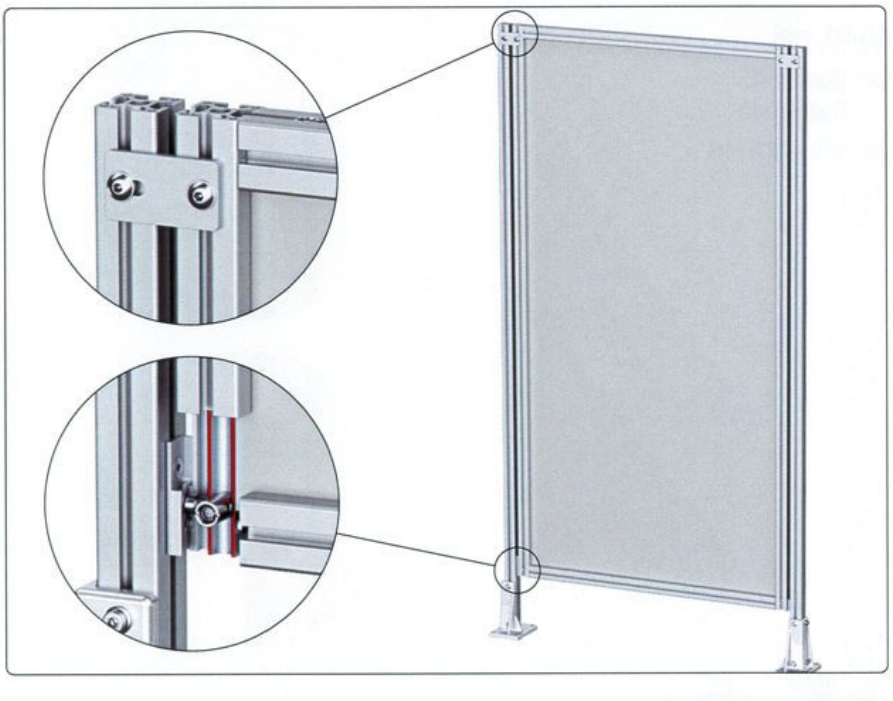
Assemblies	Pcs	Weight	Article-No.
Safety barriers mounting, type 2, 4030, top	2	76.5 g	1.68.2.1.4030.1
Safety barriers mounting, type 2, 4030, bottom left	1	44.0 g	1.68.2.1.4030.2L
Safety barriers mounting, type 2, 4030, bottom right	1	44.0 g	1.68.2.1.4030.2R

Single parts ☛ *6.76*

4040, cpl.

for post: 40
frame: 40

gap 10 mm



Description		Weight	Article-No.
Safety barriers mounting, type 2, 4040, cpl.		229.6 g	1.68.2.1.4040

Assemblies	Pcs	Weight	Article-No.
Safety barriers mounting, type 2, 4040, top	2	70.8 g	1.68.2.1.4040.1
Safety barriers mounting, type 2, 4030, bottom left	1	44.0 g	1.68.2.1.4030.2L
Safety barriers mounting, type 2, 4030, bottom right	1	44.0 g	1.68.2.1.4030.2R

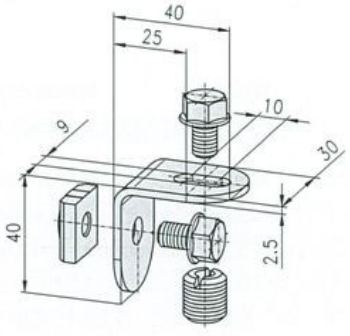
Single parts ☛ *6.77*

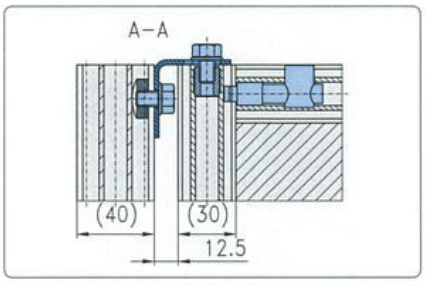
Assemblies

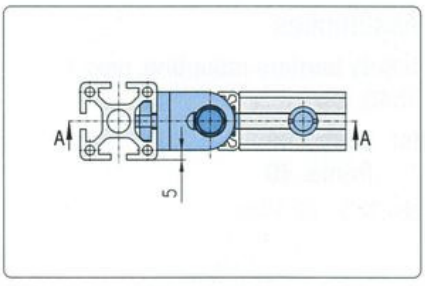
Safety barriers mounting, type 1 4030, top

for post: 40
frame: 30

gap 12.5 mm





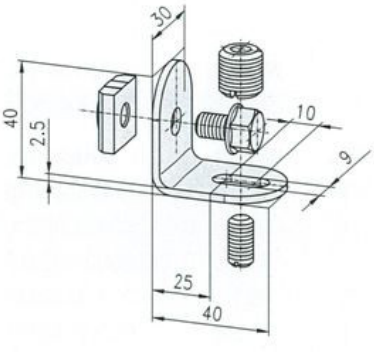


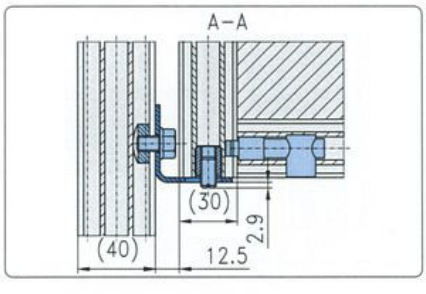
Description		Weight	Article-No.
Safety barriers mounting, type 1, 4030, top		77.3 g	1.68.1.1.4030.1
Single parts	**Pcs**	**Weight**	**Article-No.**
Angle 40×40×2,5, stainless	1	36.0 g	1.68.1.1.4030.x/01V
Hexagon head screw with flange DIN 6921 - M8×12	2	8.0 g	0.63.D06921.08012
Threaded plate, heavy, E, M8	1	16.3 g	1.31.6EM8
Threaded insert M14/M8, L15	1	9.0 g	1.35.1140815

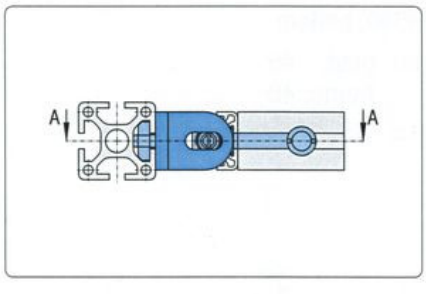
4030, bottom

for post: 40
frame: 30

gap 12.5 mm







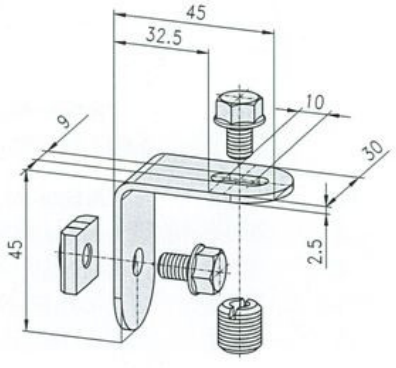
Description		Weight	Article-No.
Safety barriers mounting, type 1, 4030, bottom		74.3 g	1.68.1.1.4030.2
Single parts	**Pcs**	**Weight**	**Article-No.**
Angle 40×40×2,5, stainless	1	36.0 g	1.68.1.1.4030.x/01V
Shaft screw with slit DIN 427 - M8×16	1	5.0 g	0.63.D00427.08016
Hexagon head screw with flange DIN 6921 - M8×12	1	8.0 g	0.63.D06921.08012
Threaded plate, heavy, E, M8	1	16.3 g	1.31.6EM8
Threaded insert M14/M8, L15	1	9.0 g	1.35.1140815

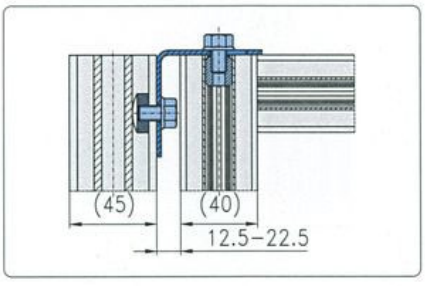
Assemblies

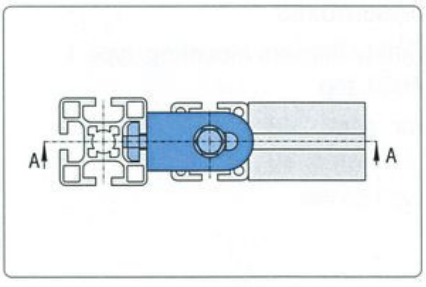
Safety barriers mounting, type 1 4540, top

for post: 45
frame: 40

gap 12.5 - 22.5 mm





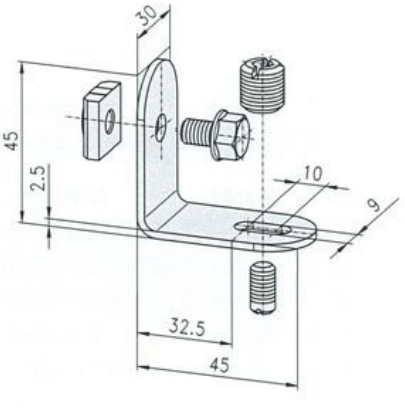


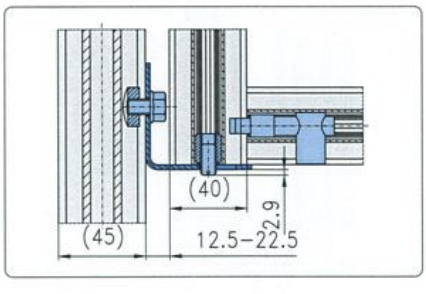
Description		Weight	Article-No.
Safety barriers mounting, type 1, 4540, top		94.3 g	1.68.1.1.4540.1
Single parts	**Pcs**	**Weight**	**Article-No.**
Angle 55×55×2,5, stainless	1	53.0 g	1.68.1.1.4540.x/01V
Hexagon head screw with flange DIN 6921 - M8×12	2	8.0 g	0.63.D06921.08012
Threaded plate, heavy, E, M8	1	16.3 g	1.31.6EM8
Threaded insert M14/M8, L15	1	9.0 g	1.35.1140815

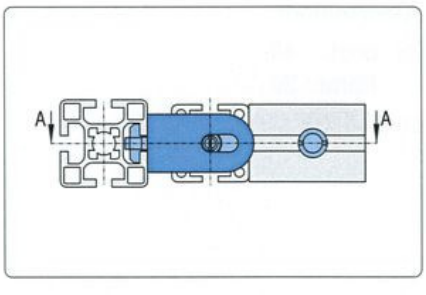
4540, bottom

for post: 45
frame: 40

gap 12.5 - 22.5 mm







Description		Weight	Article-No.
Safety barriers mounting, type 1, 4030, bottom		91.3 g	1.68.1.1.4540.2
Single parts	**Pcs**	**Weight**	**Article-No.**
Angle 55×55×2,5, stainless	1	53.0 g	1.68.1.1.4540.x/01V
Shaft screw with slit DIN 427 - M8×16	1	5.0 g	0.63.D00427.08016
Hexagon head screw with flange DIN 6921 - M8×12	1	8.0 g	0.63.D06921.08012
Threaded plate, heavy, E, M8	1	16.3 g	1.31.6EM8
Threaded insert M14/M8, L15	1	9.0 g	1.35.1140815

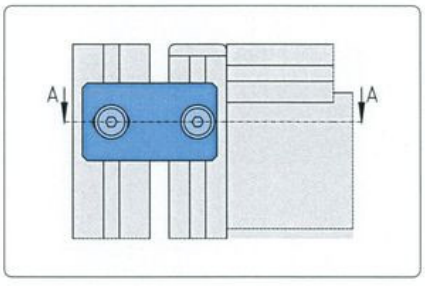
6

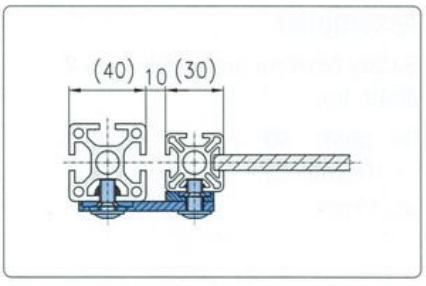
Assemblies

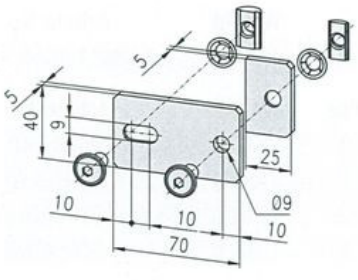
Safety barriers mounting, type 2 4030, top

for post: 40
frame: 30

gap 10 mm





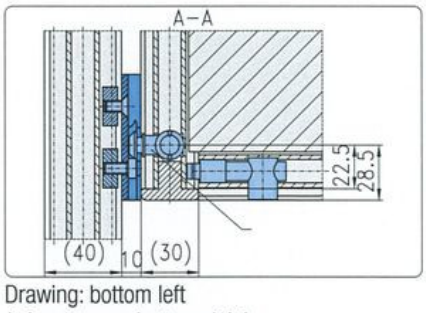


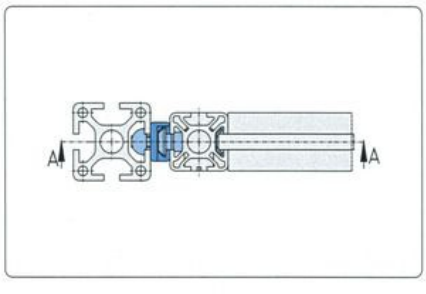
Description		Weight	Article-No.
Safety barriers mounting, type 2, 4030, top		76.5 g	1.68.2.1.4030.1
Single parts	**Pcs**	**Weight**	**Article-No.**
Connection plate 40×70×5	1	33.0 g	1.68.2.1.4030.1/01
Filler piece 40×25×5	1	11.0 g	1.68.2.1.4030.1/02
Clamping washer M8	2	0.9 g	0.62.WN04019.08
Round head flange screw WN 7381 - M8×16	2	9.0 g	0.63.WN7381.08016
T-Nut for subsequent insertion, w. spring, F, M8	1	3.7 g	1.32.4FM8
T-Nut for subsequent insertion, w. spring, E, M8	1	9.0 g	1.32.4EM8

4030, bottom left / right

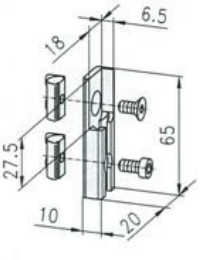
for post: 40
frame: 30

gap 10 mm

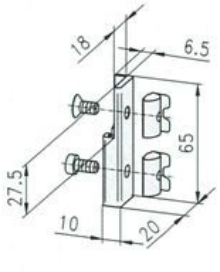




Drawing: bottom left
(mirror image: bottom right)



Description		Weight	Article-No.
Safety barriers mounting, type 2, 4030, bottom left		44.0 g	1.68.2.1.4030.2L
Single parts	**Pcs**	**Weight**	**Article-No.**
Hanging bracket 20×10, left	1	17.0 g	1.68.2.1.4030.2L/01
Cylindric head screw DIN 6912 - M6×12	1	4.0 g	0.63.D06912.06012
Flat head screw DIN 7991 - M6×12	1	3.0 g	0.63.D07991.06012
T-Nut for subsequent insertion, w. spring, E, M6	1	10.0 g	1.32.4EM6



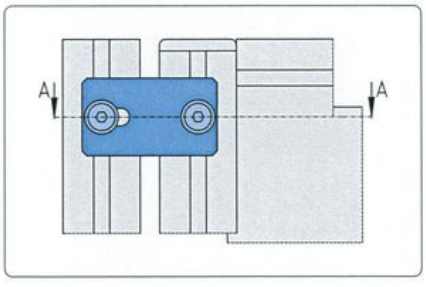
Description		Weight	Article-No.
Safety barriers mounting, type 2, 4030, bottom right		44.0 g	1.68.2.1.4030.2R
Single parts	**Pcs**	**Weight**	**Article-No.**
Hanging bracket 20×10, right	1	17.0 g	1.68.2.1.4030.2R/01
Cylindric head screw DIN 6912 - M6×12	1	4.0 g	0.63.D06912.06012
Flat head screw DIN 7991 - M6×12	1	3.0 g	0.63.D07991.06012
T-Nut for subsequent insertion, w. spring, E, M6	1	10.0 g	1.32.4EM6

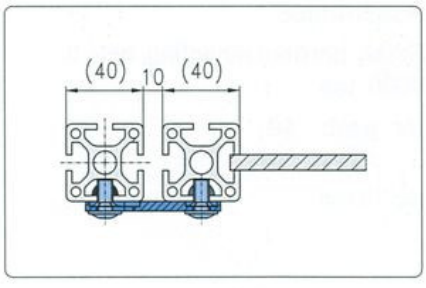
Assemblies

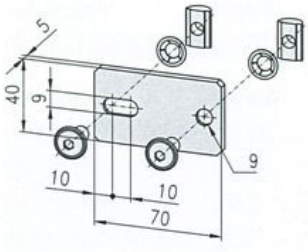
Safety barriers mounting, type 2 4040, top

for post: 40
frame: 40

gap 10 mm







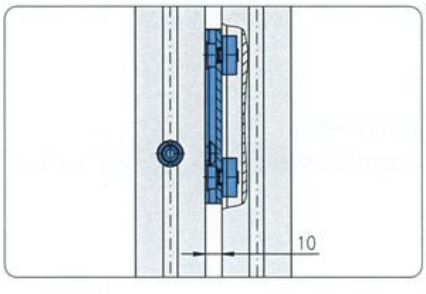
Description		Weight	Article-No.
Safety barriers mounting, type 2, 4040, top		70.8 g	1.68.2.1.4040.1
Single parts	**Pcs**	**Weight**	**Article-No.**
Connection plate 40×70×5	1	33.0 g	1.68.2.1.4030.1/01
Clamping washer M8	2	0.9 g	0.62.WN04019.08
Round head flange screw WN 7381 - M8×16	2	9.0 g	0.63.WN7381.08016
T-Nut for subsequent insertion, w. spring, E, M8	2	9.0 g	1.32.4EM8

6

Hanging bracket
for safety barriers

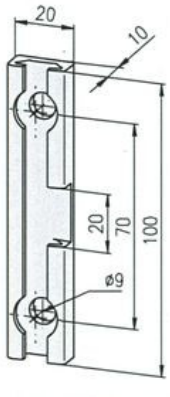
Application
Element for mounting unhingeable fence elements

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



H F E

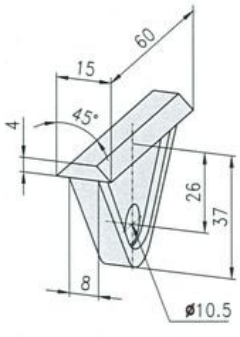
Description	Weight	Article-No.
Hanging bracket	16 g	1.68.201050

Suspended glider

Application
Element for tool suspension in MayTec-profile

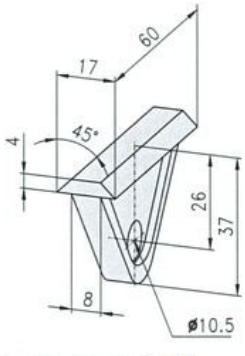
Technical data

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



H F E

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



H F E

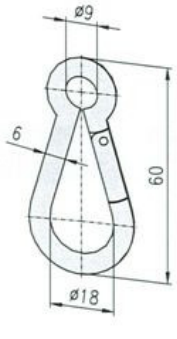
Description	Weight	Article-No.
Suspended glider E	10 g	1.69.E010

6

Carabine swivel

Technical data

material:	steel
surface:	galvanised



Description	Weight	Article-No.
Carabine swivel 60×6	27 g	1.69.1606

1.7 Electrical accessories

Potential equalisation
☛ *7.02*

Ground connections
☛ *7.03*

Cable and hose clamp
☛ *7.04*

Block for cable binder
☛ *7.05*

Installation rings
☛ *7.06*

Mounting set for 19" profile
☛ *7.07*

Safety interlocking-mountings
☛ *7.08*

Sensor brackets
☛ *7.13*

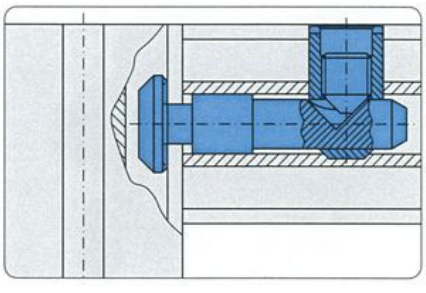
Electrical installation trunkings
☛ *7.14*

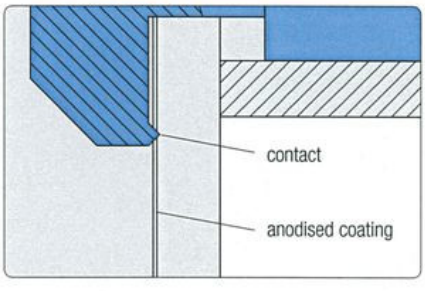
Potential equalisation

Application

Ground connections to establish the potential equalisation between two profiles

The serration at the bottom of the socket head of the connector pushes through the anodised coating of the profiles and thus provides the electrical contact



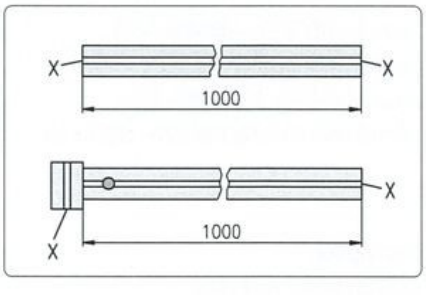


Comments

Suitable to equalise charge accumulations
Not suitable for higher currents

Technical data

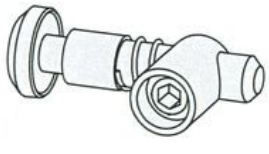
Low current measurements in accordance with DIN VDE 0413, Part 4 for the control of protective circuits, earthing circuits and potential equalisation methods through low resistance connections for protection against dangerous currents



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

H F E

Description	Article-No.
Connector, universal, grounding, PG 20	1.21.2F0E
Connector, universal, grounding, PG 30	1.21.3F0E
Connector, universal, grounding, PG 40	1.21.4F0E
Connector, universal, grounding, PG 45	1.21.45F0E
Connector, universal, grounding, PG 50	1.21.5F0E
Connector, universal, grounding, PG 60	1.21.6F0E



H F E

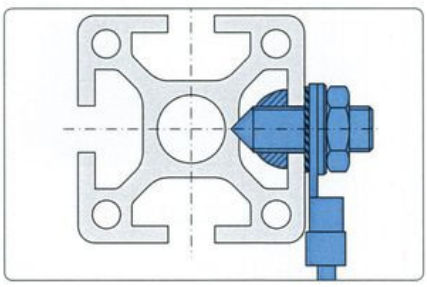
Description	Article-No.
Connector, universal, grounding, PG 20	1.21.2E0E
Connector, universal, grounding, PG 30	1.21.3E0E
Connector, universal, grounding, PG 40	1.21.4E0E
Connector, universal, grounding, PG 45	1.21.45E0E
Connector, universal, grounding, PG 50	1.21.5E0E
Connector, universal, grounding, PG 60	1.21.6E0E

Comments

More grounding connectors
☛ *Connectors 1.2A*

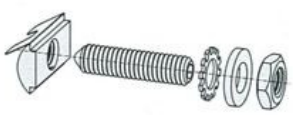
Ground connections

Application
Couplings for grounding of anodised profiles



Comments
The grounding is caused by breaking the anodised layer at the bottom of the slot and at the profile's front side

Description	Weight	Article-No.
Ground connection F, M6	74 g	1.70.10FM6

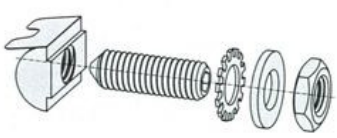


H F E

Single parts

T-Nut for subseqent insertion F, M6
Setscrew DIN 914 - M6×25 - V2A
Fan type lock washer DIN 6798 - A6.4 - V2A
Hexagon nut DIN 439 - M6 - Ms
Washer with chamfer DIN 125 - B6.4 - Ms

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

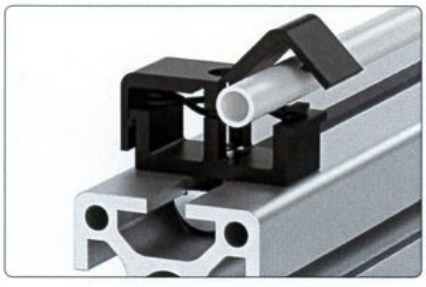


H F E

Single parts

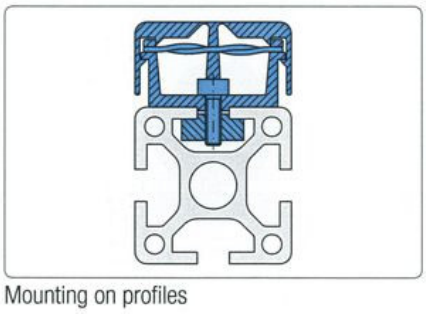
T-Nut for subseqent insertion E, M8
Setscrew DIN 914 - M8×25 - V2A
Fan type lock washer DIN 6798 - A8.4 - V2A
Hexagon nut DIN 439 - M8 - Ms
Washer with chamfer DIN 125 - B8.4 - Ms

Cable and hose clamp

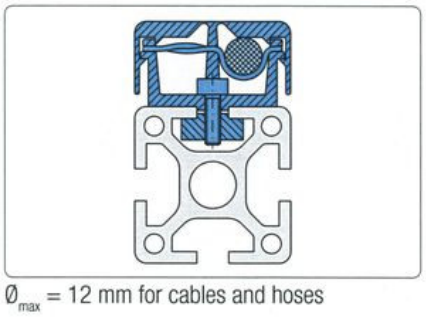


Application
Fixing element for cables and hoses up to Ø12 mm

Technical data
material: PA
colour: black

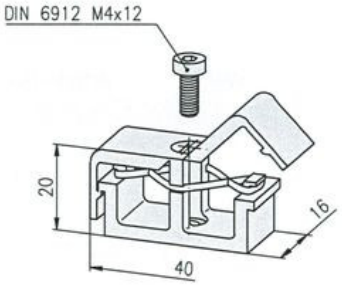


Mounting on profiles



$Ø_{max}$ = 12 mm for cables and hoses

Delivery unit
Including cap-screw DIN 6912 M4×12



Fastening elements for E-slot

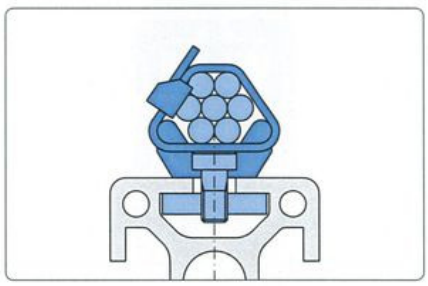
T-Nut for subs. insertion, with leaf spring E, M4	1.32.4EM4
spring-nut E, M4	1.33.EM4
T-slot nut E, M4	1.34.10EM4

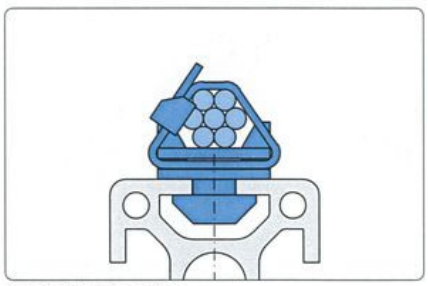
Description	Weight	Article-No.
Cable and hose clamp	8 g	1.71.1010

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

Block for cable binder

Cross-block for cable binder

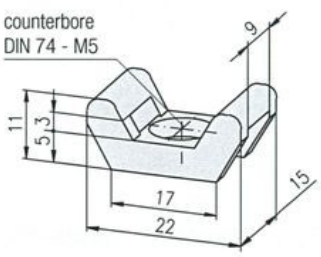



front-sided insertion

Technical data
material: PA
colour: black

Application
Element for fixing single cables and hoses or large quantities

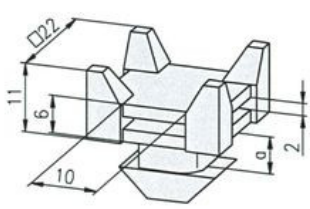
Block for cable binder



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

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

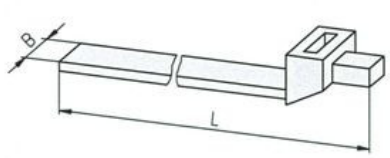
Cross-blocks for cable binder
front-sided insertion



H F E

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

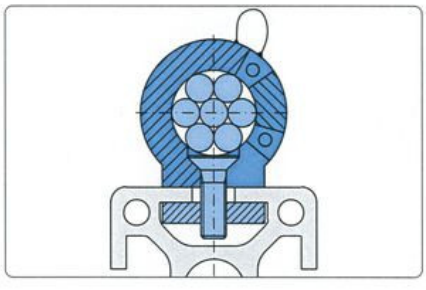
Cable binder
detachable



Description	B×L	Weight	Article-No.
Cable binder, detachable	4.8×190	1.0 g	1.71.2048190
Cable binder, detachable	7.6×150	1.9 g	1.71.2090140

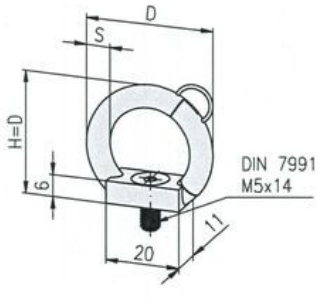
Installation rings

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



Technical data
material: PA-GF
colour: black

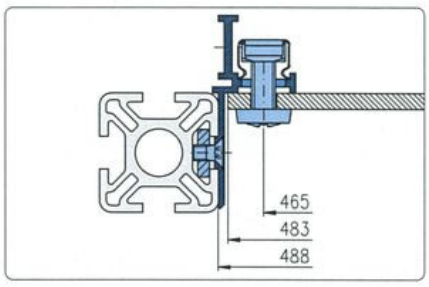
Comments
Delivery unit incl. screw

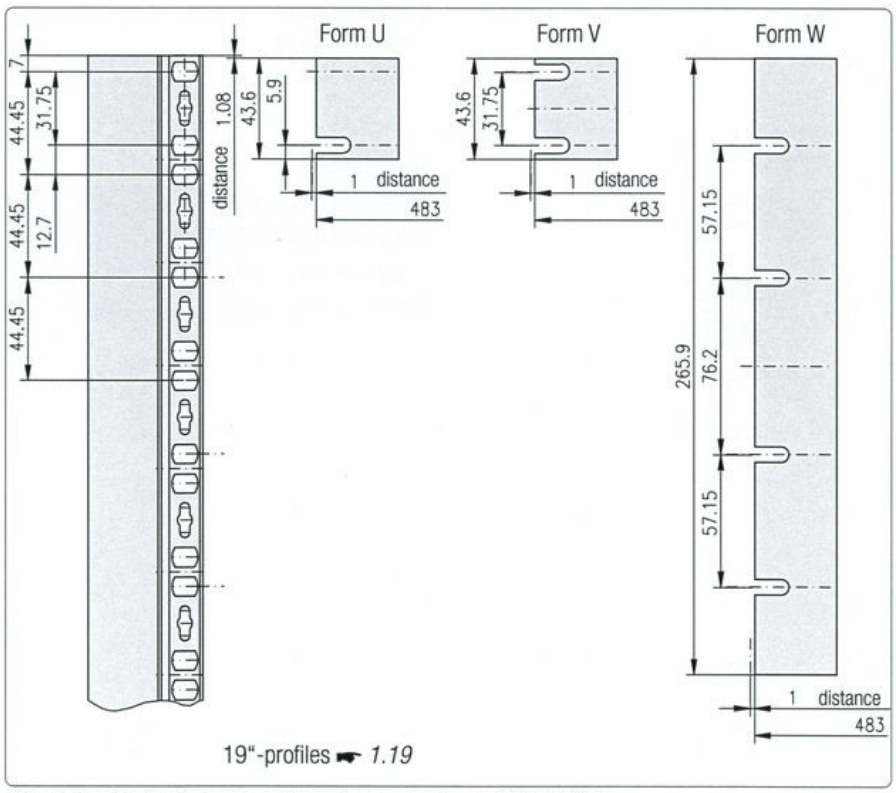


Description	D	s	Weight	Article-No.
Installation ring	Ø28.5	6.0	5 g	1.71.30285
Installation ring	Ø36.5	6.0	6 g	1.71.30365
Installation ring	Ø47.5	7.5	8 g	1.71.30475
Installation ring	Ø56.5	7.5	9 g	1.71.30565

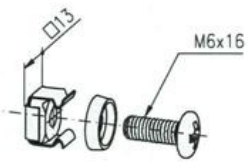
Mounting set for 19“ profile

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





Dimensions for front panels and housings according to DIN 41494



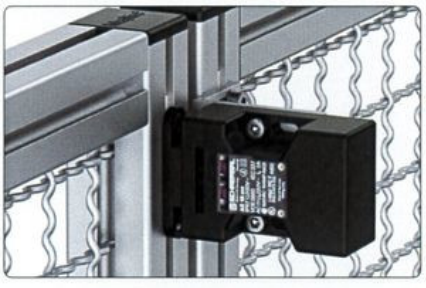
Technical data

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

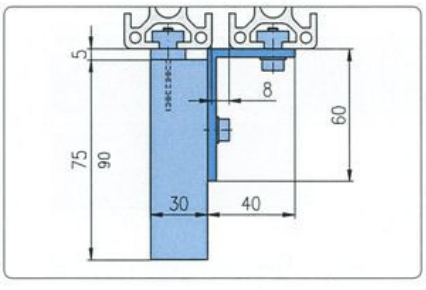
Description	Weight	Article-No.
Mounting set for 19“ profile	70 g	1.72.2010.10

7

Safety interlocking-mountings
for swinging door



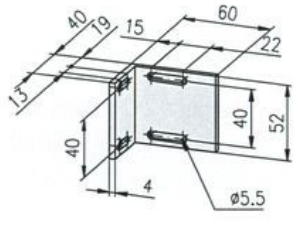
Application
Mounting element for electrical interlocking switches



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

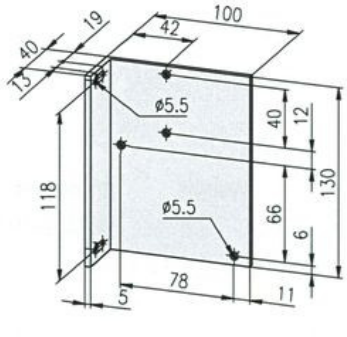
Technical data
material: aluminium
surface: natural anodised

for swinging door



Description	Weight	Article-No.
Safety interlocking-mounting	46 g	1.73.4010
for swinging door		

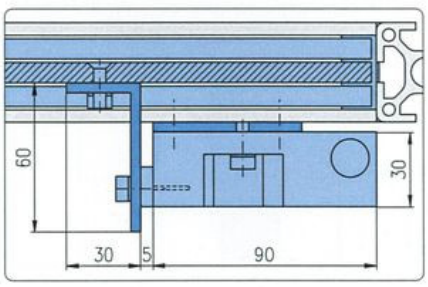
with lock for swinging door



Description	Weight	Article-No.
Safety interlocking-mounting	183 g	1.73.4020
with lock for swinging door		

Safety interlocking-mountings
for sliding door

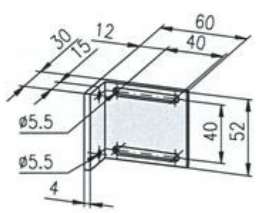
Application
Mounting element for the electrical interlokking of sliding doors



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

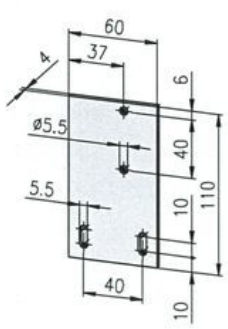
Technical data
material: aluminium
surface: natural anodised

Contact bracket-mounting
for sliding door



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

Safety interlocking-mounting
for sliding door

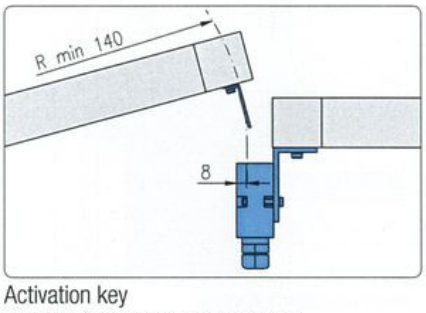


Description	Weight	Article-No.
Safety interlocking-mounting	70 g	1.73.4040
for sliding door		

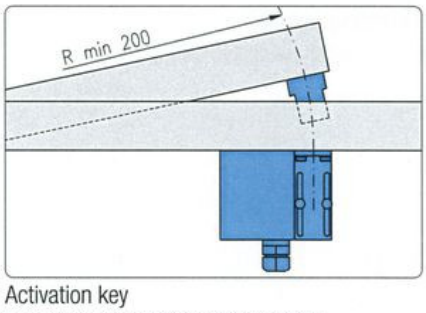
7

Safety interlocking-mountings AZ 17
for swinging door

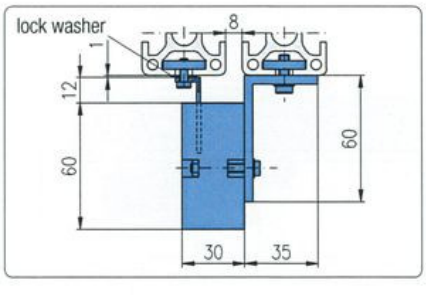
Application
Fastening elements for:
- safety switches AZ 17
- safety closing AZM 170 at sliding doors



Activation key
Mounting vertical to swivel radius



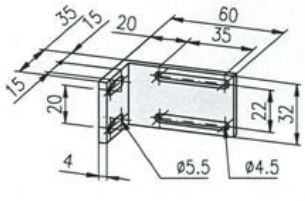
Activation key
Mounting horizontal to swivel radius



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

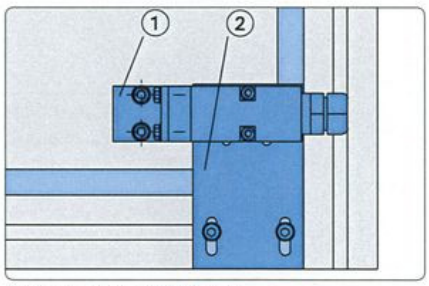


Description	Weight	Article-No.
Safety interlocking-mounting AZ 17	26 g	1.73.4110
for swinging door		

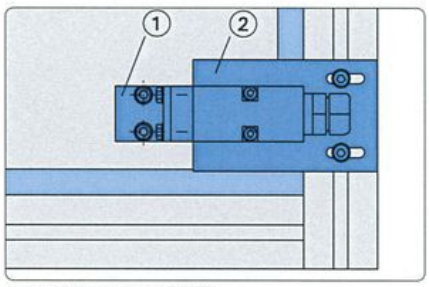
Safety interlocking-mountings AZ 17
for sliding door

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

Mounting position:
Safety switch parallel to sliding door

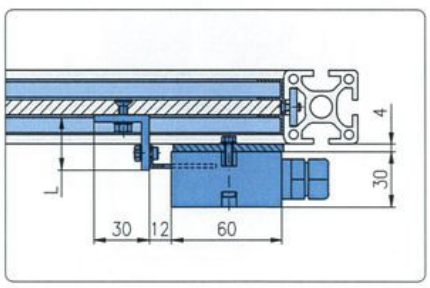


Fastening plate horizontal

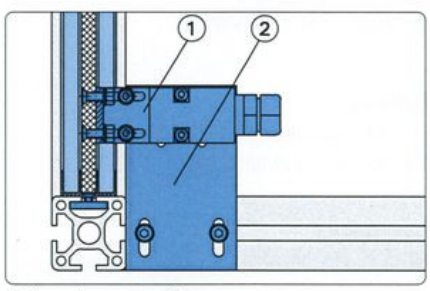


Fastening plate vertical

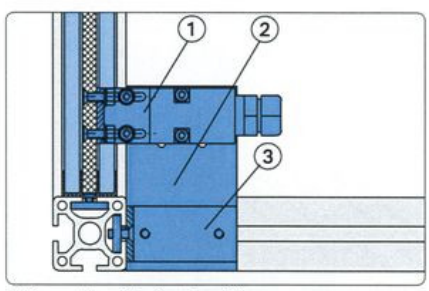
① Contact bracket-mounting AZ 17
② Safety interlocking-mounting AZ 17



Mounting position:
Safety switch across to sliding door

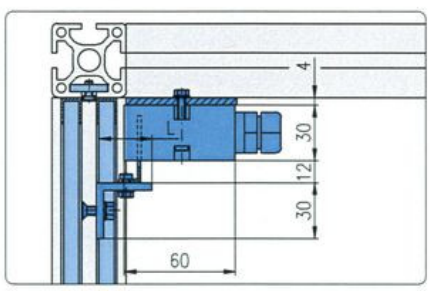


Fixing at cross profile



Fixing at longitudinal profile

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



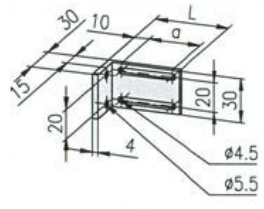
7

Safety interlocking-mountings AZ 17
for sliding door

Technical data
material: aluminium
surface: natural anodised

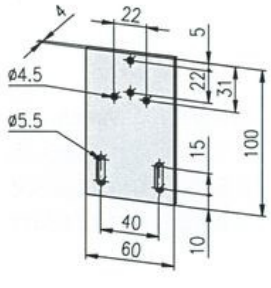
Comments
Assembly on
profile 30×30
profile 40×40
profile 40×80

Contact bracket-mounting AZ 17
for sliding door



Description		a	Weight	Article-No.
Contact bracket-mounting AZ 17 for sliding door,	L 30	15	16 g	1.73.4123
Contact bracket-mounting AZ 17 for sliding door,	L 40	25	19 g	1.73.4124
Contact bracket-mounting AZ 17 for sliding door,	L 50	35	21 g	1.73.4125

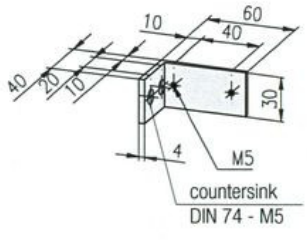
Safety interlocking-mounting AZ 17
for sliding door



Description	Weight	Article-No.
Safety interlocking-mounting AZ 17 for sliding door	62 g	1.73.4130

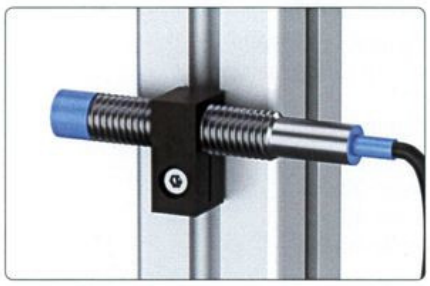
Angle for safety interlocking-mounting AZ 17
for sliding door

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



Description	Weight	Article-No.
Angle for safety interlocking-mounting AZ 17 for sliding door	30 g	1.73.4140

Sensor brackets

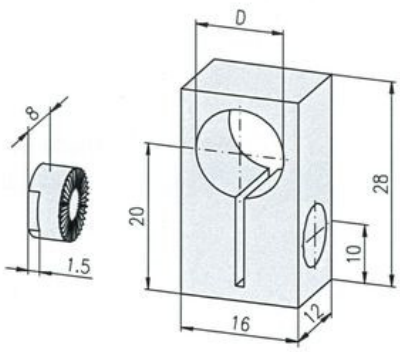


Application
For fastening of sensors

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

Technical data
material: PA, black

Fastening elements
cap-screw DIN 6912, M4



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

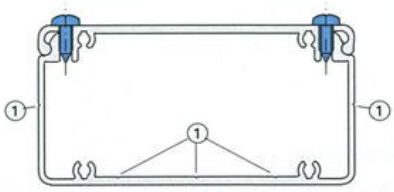
7

Electrical installation trunking

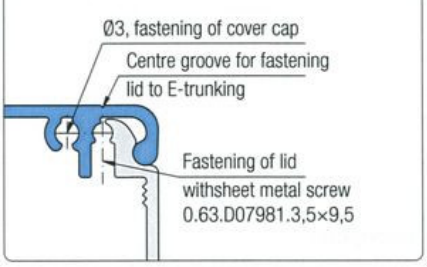
Application
Installation trunking for electrical and pneumatic lines

Technical data
material: aluminium
surface: natural anodised

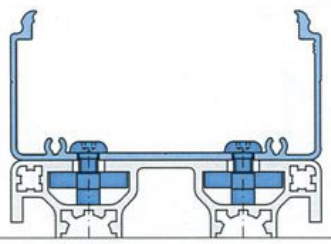
Mounting
Lid profile to base profile



① Centre groove for fastening E-trunking to profile

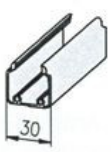


Mounting
Base profile to profile with E-slot



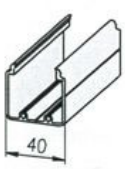
Possibilities of fastening
button-headed screw M5×12 0.63. WN7380.05012
with:
- threaded plate EM5, 1.31.EM5
- T-nut for subs. insertion, with leaf spring EM5, 1.32.4EM5
- T-slot nut EM5, 1.34.10EM5

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

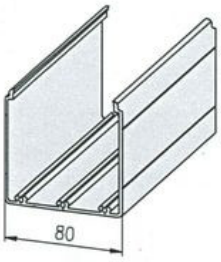
Description	Weight	Article-No.
E-trunking 40×20, bar 6 m	1.80 kg	1.19.204020G.60
E-trunking 40×20, cut to length	0.30 kg/m	1.19.204020G-A00A00/... /... = length in mm



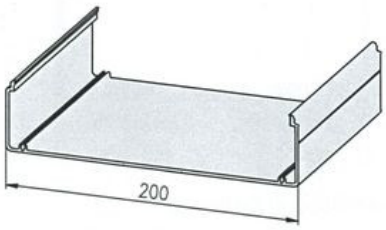
Description	Weight	Article-No.
E-trunking 40×40, bar 6 m	3.66 kg	1.19.204040G.60
E-trunking 40×40, cut to length	0.61 kg/m	1.19.204040G-A00A00/... /... = length in mm

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



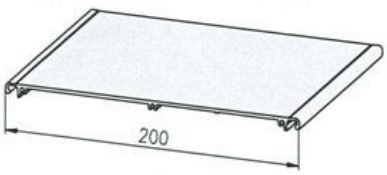
	Description	Weight	Article-No.
	E-trunking 200×50, bar 6 m	12.00 kg	1.19.220050G.60
	E-trunking 200×50, cut to length	2.0 kg/m	1.19.220050G-L00L00/...
			/... = length in mm

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

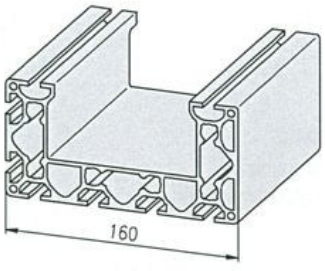
	Description	Weight	Article-No.
	E-trunking, lid 40, bar 6 m	2.10 kg	1.19.2040D.60
	E-trunking, lid 40, cut to length	0.35 kg/m	1.19.2040D-A00A00/...
			/... = length in mm

	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

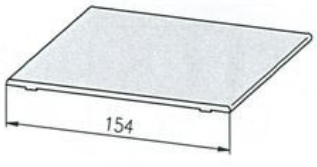
E-trunking



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

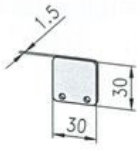


Description	Weight	Article-No.
Profile pre-cut lid 120, bar 6 m	10.80 kg	1.19.1101120.60
Profile pre-cut lid 120, cut to length	1.80 kg/m	1.19.1101120-L00L00/...

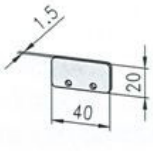
/... = length in mm

E-trunking, end plates

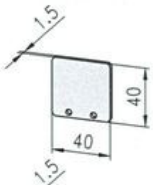
Technical data
material: stainless steel
surface: pickled and passivated



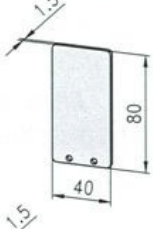
Description	Weight	Article-No.
E-trunking, end plate 30×30	3.8 g	1.75.2030302



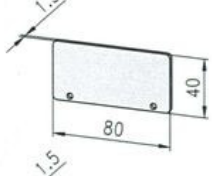
Description	Weight	Article-No.
E-trunking, end plate 40×20	3.8 g	1.75.2040202



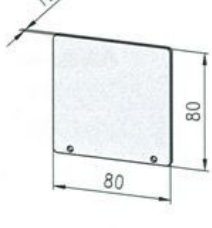
Description	Weight	Article-No.
E-trunking, end plate 40×40	6.8 g	1.75.2040402



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

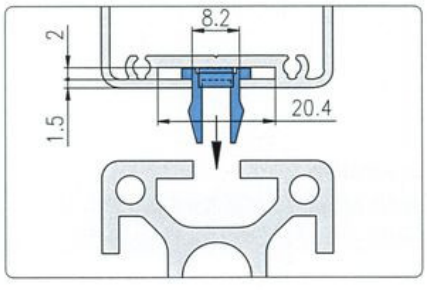


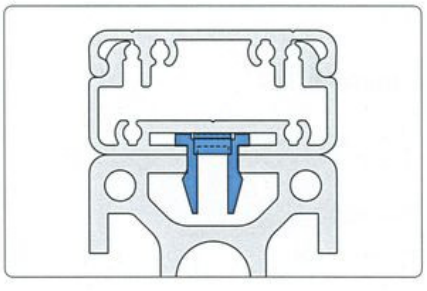
Description	Weight	Article-No.
E-trunking, end plate 80×80	27.7 g	1.75.2080802

Electrical installation trunking
for clips

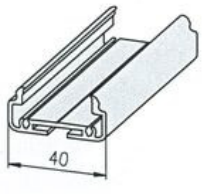
Application
Clip-system for quick assembly of the E-trunking

Technical data
material: aluminium
surface: natural anodised



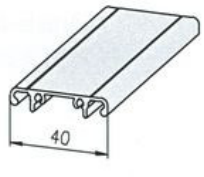


E-trunking, for clips



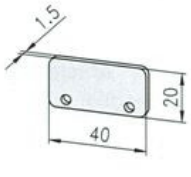
	Description	Weight	Article-No.
	E-trunking 40×20, Clips, bar 6 m	3.00 kg	1.19.214020G.60
	E-trunking 40×20, Clips, cut to length	0.50 kg/m	1.19.214020G-A00A00/... /... = length in mm

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

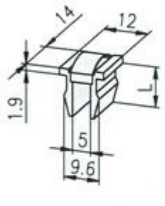
E-trunking, end plate



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

7

1.8 Panel elements

Corner elements for wire net m. profile
☛ 8.02

Corner element 33 for wire net m. prf. 33×10
☛ 8.03

Mounting sockets
☛ 8.04

Chipboards
☛ 8.06

Solid plastic panels
☛ 8.07

Alu-plastic composite panels
☛ 8.08

Structured-core panels
☛ 8.09

Edge protection
☛ 8.09

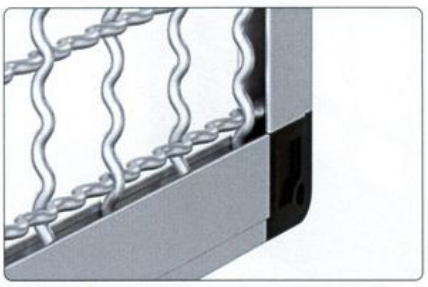
Polycarbonat (Makrolon)
☛ 8.10

Wire net, steel
☛ 8.11

Grid, steel
☛ 8.11

Wire net, Alu
☛ 8.12

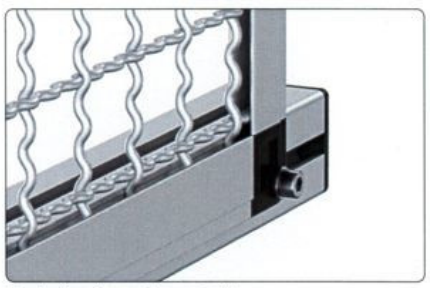
Corner elements
for wire net mounting profile



Application
This mounting profile allows simple and safe installation of screens

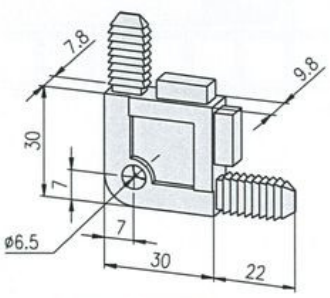
Comments
Wire net mounting profile ☛ *1.19.1423...*

Mounting in the profile slot

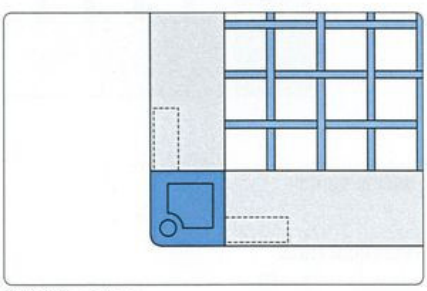

Fastening from the outside

Technical data
material: PA - GF
colour: black

Outside corner

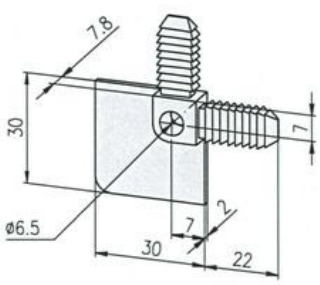


H F E

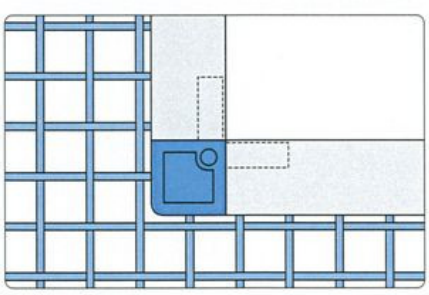

Outside corner

Description	Weight	Article-No.
Corner element - outside	13 g	1.81.1010

Inside corner

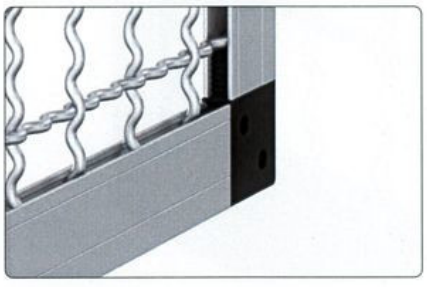


H F E


Inside corner

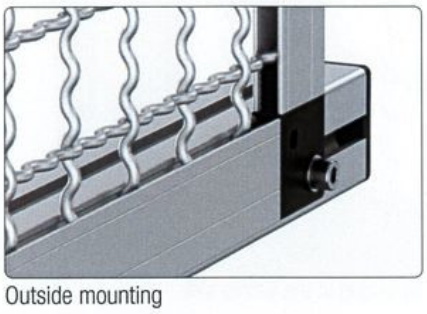
Description	Weight	Article-No.
Corner element - inside	6 g	1.81.1020

Corner element 33
for wire net mounting profile 33×10

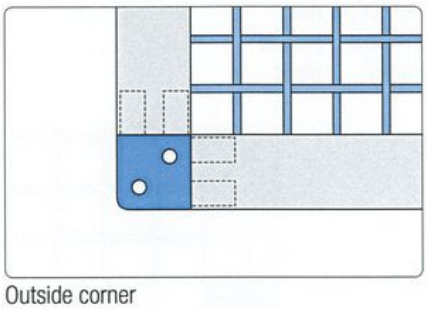


Application
This profile allows simple and safe installation of wire nets

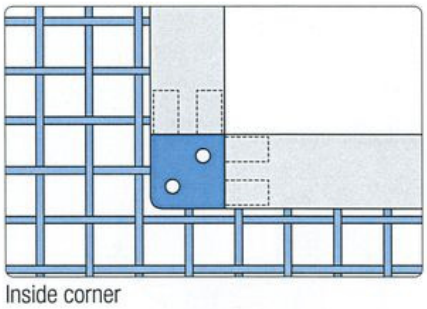
Comments
Wire net mounting profile 33×10
☛ *1.19.1423...*



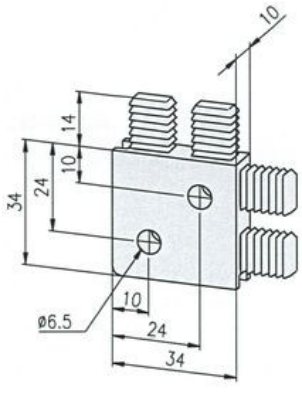
Outside mounting



Outside corner



Inside corner

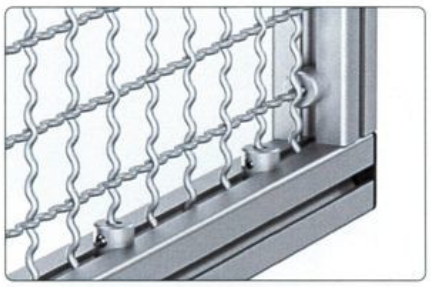


Technical data
material: PA - GF
colour: black

Description	Weight	Article-No.
Corner element 33	16 g	1.81.23310

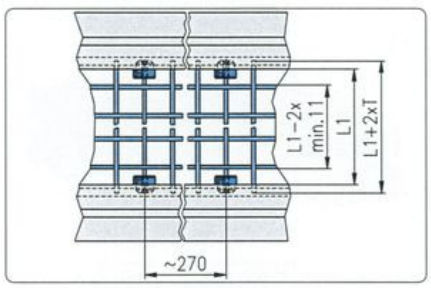
8

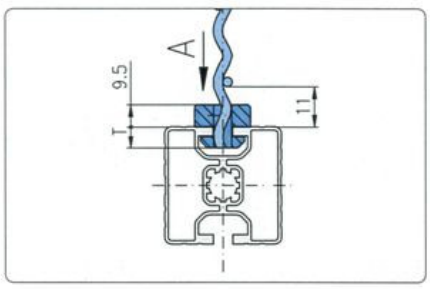
Mounting sockets

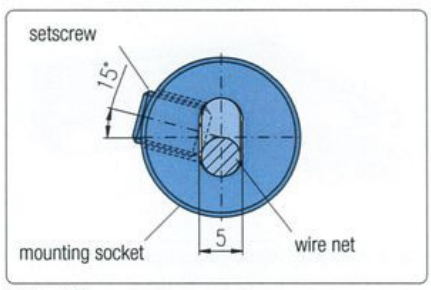


Application

For stable and vibration free fastening of wire nets







View „A“

Assembly

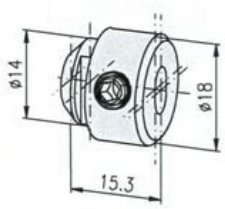
- plug terminal sockets at a distance of about 270 mm on the wire net
- push on profile
- rotate mounting sockets with headless setscrew DIN 913 M6×8 at an angle of 15°

Technical data

material:
mounting socket: aluminium, natural anodised
setscrew: steel, galvanised

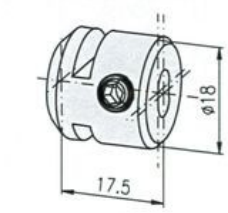
Delivery unit

Mounting socket incl. setscrew



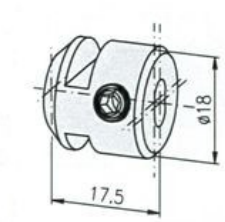
H F E

Description	T	Weight	Article-No.
Mounting socket, F	5	6 g	1.81.510F



H F E3

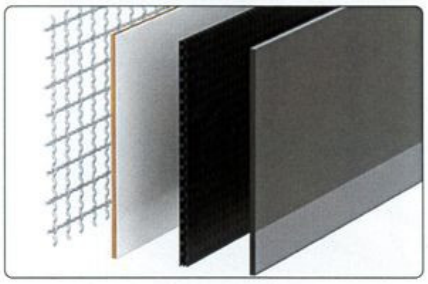
Description	T	Weight	Article-No.
Mounting socket, E3	8	6 g	1.81.510E3



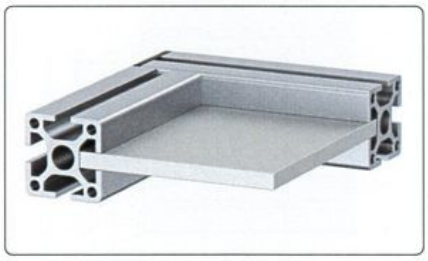
H F E4

Description	T	Weight	Article-No.
Mounting socket, E4	8	6 g	1.81.510E4

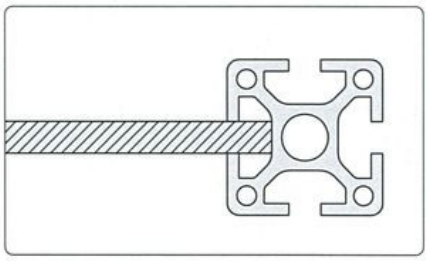
Panel elements



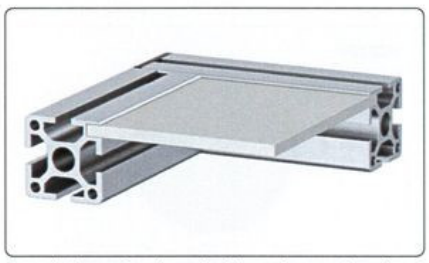
Application
Panel elements to cover machine frames, work stations, partition walls.



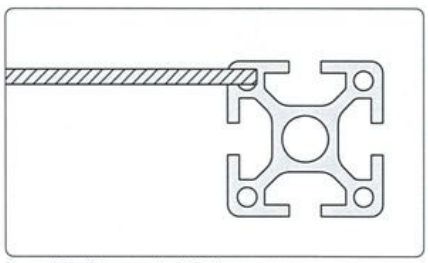
Panel element, fixing directly in the slot



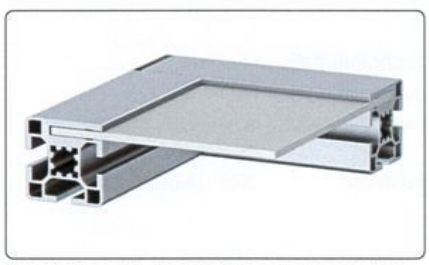
Installation accessories ☛ *1.41*



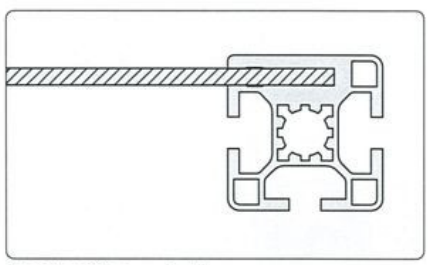
Panel elements close to the outer contour by subsequent slitting of the profiles



Special slits ☛ *1.1E.01*

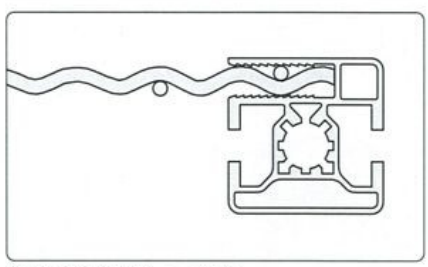


Panel elements close to the outer contour by applying panel profiles

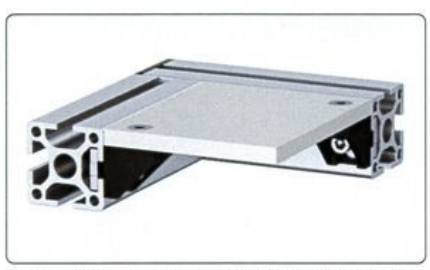


Panel profiles ☛ *1.14*

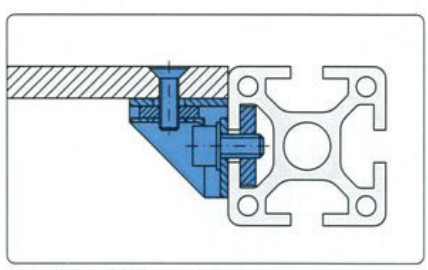
Panel elements close to the outer contour by applying wire net profiles



Wire net profiles ☛ *1.15*



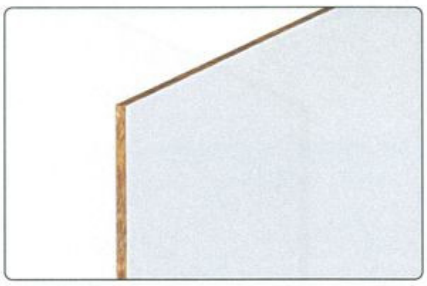
Panel elements close to the outer contour by fixing with angle or mounting block



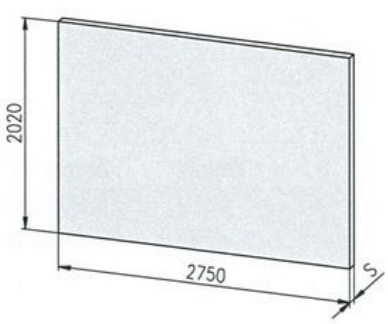
Mounting blocks ☛ *1.64*

8

Chipboards
both sides coated with melamine

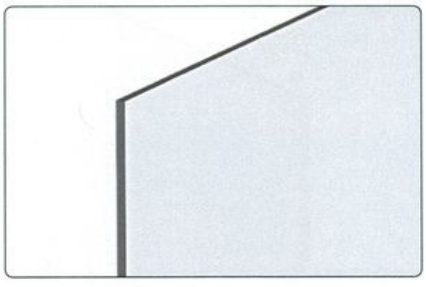


Technical data	
surface:	both sides coated with melamine
structure:	mini pearl
RAL 7035:	light grey
formaldehydemission:	complies to safety standards §9 paragraph 3
light-fastness:	point 6 as per DIN 53799
temperature resistance:	- 25°C to 130°C
chemical resistance:	resistant against organic food, light acid contents and alkaline solution, gasoline, oil, tested as per DIN 53799
chipboard:	high frequency glued laminated chipboard
Technical values on DIN 68765 and 53799	
bulk density:	approx. 700 kg/m³
thickness tolerance:	+0.5 -0.3 mm
weight:	S = 8 mm 5.6 kg/m² S = 19 mm 13.3 kg/m²
cut to length:	1.82.□□□-99/□□□□×□□□□ 1.82.□□□-99/□□□□×□□□□ type 1.82.□□□-99/□□□□×□□□□ length×width in mm

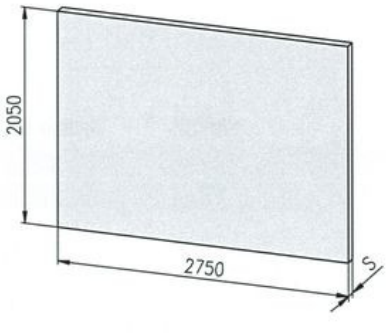


Description	S	RAL	Weight	Article No.
Chipboard	8	7035	32 kg	1.82.083.00
Chipboard	19	7035	75 kg	1.82.193.00

Solid plastic panels
coated with melamine



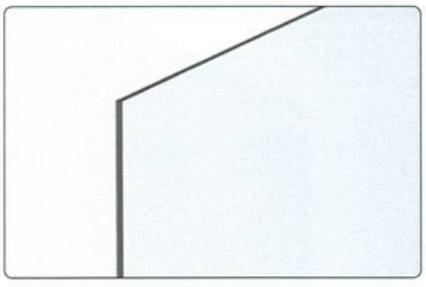
Technical data	
surface:	both sides coated with melamine
structure:	mini pearl
RAL 7035:	light grey
solid plastic panel:	made of Phenolplastic high pressure plate (HPL) of laminated material with all generally known merits of this substance.
Technical values on DIN 19926 and 53799	
bulk density:	approx. 1,500 kg/m³
thickness tolerance:	-0.6 mm
weight:	S = 4 mm 6 kg/m² S = 8 mm 12 kg/m²
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

8

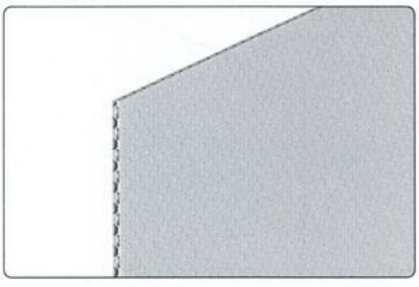
Alu-plastic composite panels



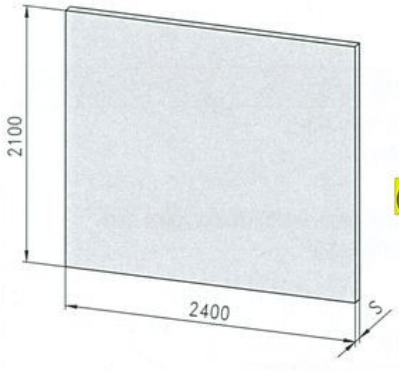
Technical data	
alu-plastic composite panel:	PE with alu coating on both sides
surface:	natural anodised, E6/EV1
temperature resistance:	- 50°C to 80°C
chemical resistance:	resistant against organic food, light acid contents and alkaline solutions, gasoline, oil
thickness tolerance:	-0.6 mm
weight:	S = 4 mm 5.5 kg/m² S = 6 mm 7.3 kg/m²
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

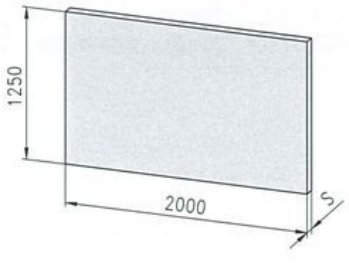
Structured-core panels



Technical data
material: PP
colour: black, grey, blue

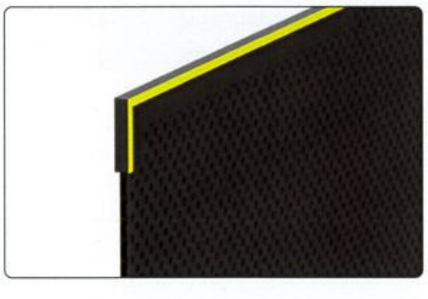


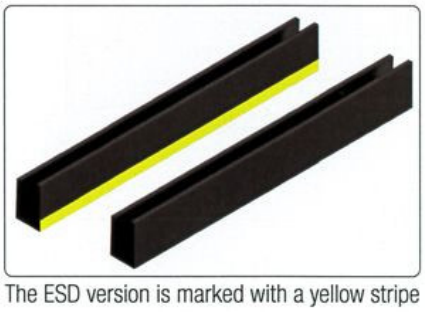
Description	S	Colour	similar to RAL	Weight	Article No.
Structured-core panel, ESD	5	black		5.1 kg	1.85.1.050.01E.00
Structured-core panel	5	grey	7001	5.1 kg	1.85.1.050.05.00
Structured-core panel	10	grey	7001	12.6 kg	1.85.1.100.05.00



Description	S	Colour	similar to RAL	Weight	Article No.
Structured-core panel	5	blue	5017	2.8 kg	1.85.1.050.07.00

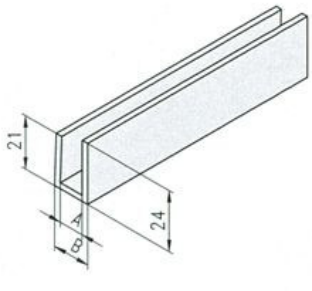
Edge protection





The ESD version is marked with a yellow stripe

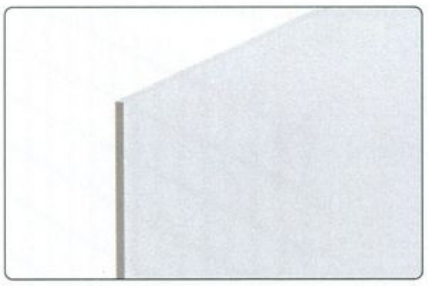
Technical data
material: PP
colour: black
length: 2 m



Description	A	B	Weight	Article No.
Edge protection	5	9.8	226 g	1.85.1.K05.01.20
Edge protection, ESD	5	9.8	226 g	1.85.1.K05.01E.20
Edge protection	10	14.8	263 g	1.85.1.K10.01.20
Edge protection, ESD	10	14.8	263 g	1.85.1.K10.01E.20

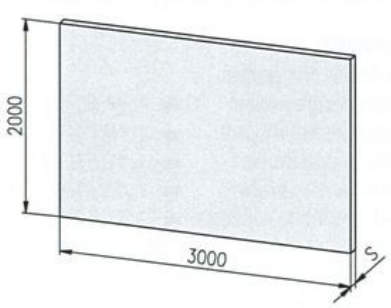
8

Polycarbonate (Makrolon)



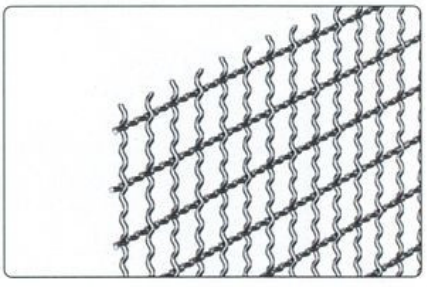
Application
Doors, panels and guards with stringent security requirements as polycarbonate offers high impact resistance and strength against breakage

Technical data		
thickness tolerance:	+0.8 mm	
weight:	S = 4 mm 4.8 kg/m²	
	S = 5 mm 6.0 kg/m²	
	S = 6 mm 7.2 kg/m²	
	S = 8 mm 9.6 kg/m²	
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/m²
break / shear point		> 110.0 %
compression		78.5 MN/m²
elasticity		2,256.0 MN/m²
marring resistance		392.4 J/m²
impact resistance (kJ/m²)		no break
tensile strength		68.7 MN/m²
Thermal properties		
temperature distortion according to 'Vicat'		170 °C
melting point		170 °C
temperature range under static load		-100 °C to 130 °C



Description	S	Colour	Weight	Article No.
Polycarbonate	4	transparent	28.8 kg	1.87.041.00
Polycarbonate	4	UV bronze 2850	28.8 kg	1.87.042.00
Polycarbonate	5	transparent	36.0 kg	1.87.051.00
Polycarbonate	5	UV bronze 2850	36.0 kg	1.87.052.00
Polycarbonate	6	transparent	43.2 kg	1.87.061.00
Polycarbonate	6	UV bronze 2850	43.2 kg	1.87.062.00
Polycarbonate	8	transparent	57.6 kg	1.87.081.00
Polycarbonate	8	UV bronze 2850	57.6 kg	1.87.082.00

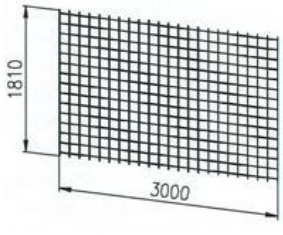
Wire net, steel



Application
For protective coverings and partition walls

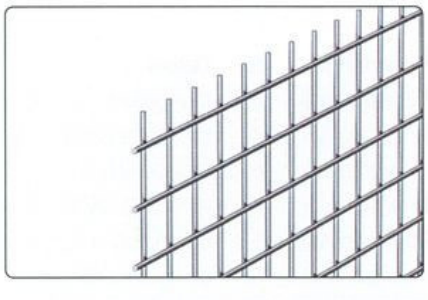
Comments
Mounting in the profile:
- with sponge rubber ☛ *1.41.6□□*
- with wire net m. prof. ☛ *1.19.1423...*
- with wedge profile ☛ *1.41.51E□.□*
- with framing profile ☛ *1.41.710.□*
- with mounting sockets ☛ *1.81.510□□*

Technical data		
material:	steel	
surface:	galvanised	
weight:	4×30×30 mm	27 kg/plate
	4×40×40 mm	24 kg/plate
size of plate:	3,000×1,810 mm	
cut to length:	1.88.□□□-99/□□□□×□□□□	
	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

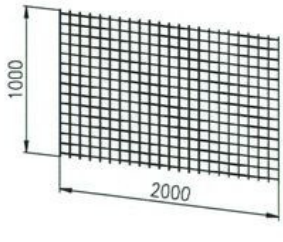
Grid, steel
welded



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□□*

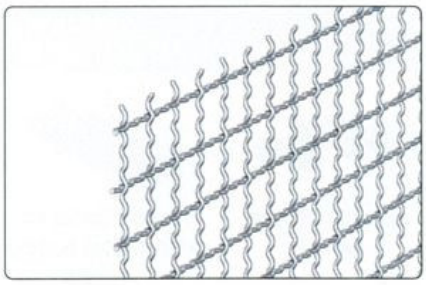
Technical data		
material:	steel	
surface:	electrogalvanised	
weight:	3×25×25 mm	8.9 kg/plate
	4×40×40 mm	9.8 kg/plate
size of plate:	2,000×1,000 mm	
cut to length:	1.88.□□□-99/□□□□×□□□□	
	1.88.□□□-99/□□□□×□□□□	type
	1.88.□□□-99/□□□□×□□□□	length×width in mm



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

8

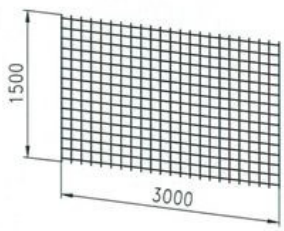
Wire net, Alu



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/m²
	4×30×30 mm	2.25 kg/m²
size of plate:	3,000×1,500 mm	
cut to length:	1.88.□□□-99/□□□□×□□□□	
	1.88.□□□-99/□□□□×□□□□	type
	1.88.□□□-99/□□□□×□□□□	length×width in mm



Description	Weight	Article-No.
Wire net, Alu 3×20×20	8.3 kg	1.88.322.00
Wire net, Alu 4×30×30	10.1 kg	1.88.433.00

1.9 Washers, screws and tools

Self locking washers
☛ *9.02 - 9.03*

Button head screws
☛ *9.04*

Lens head screws
☛ *9.04*

Press in device for knurled cross bushing
☛ *9.05*

Hexagonal tools
☛ *9.05*

Torx® tools
☛ *9.06*

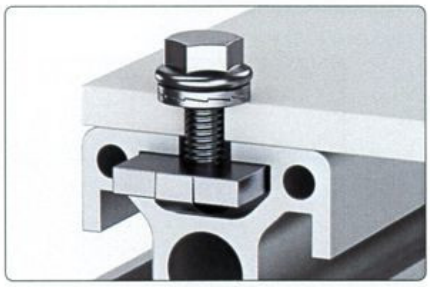
Drill jigs
☛ *9.08, 9.10*

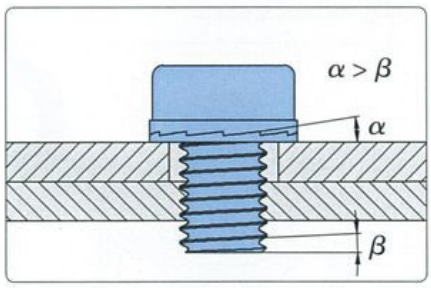
Drills
☛ *9.09, 9.11*

Milling cutters
☛ *9.09, 9.11*

Screw taps
☛ *9.13 - 9.14*

Self locking washers
DIN 25201



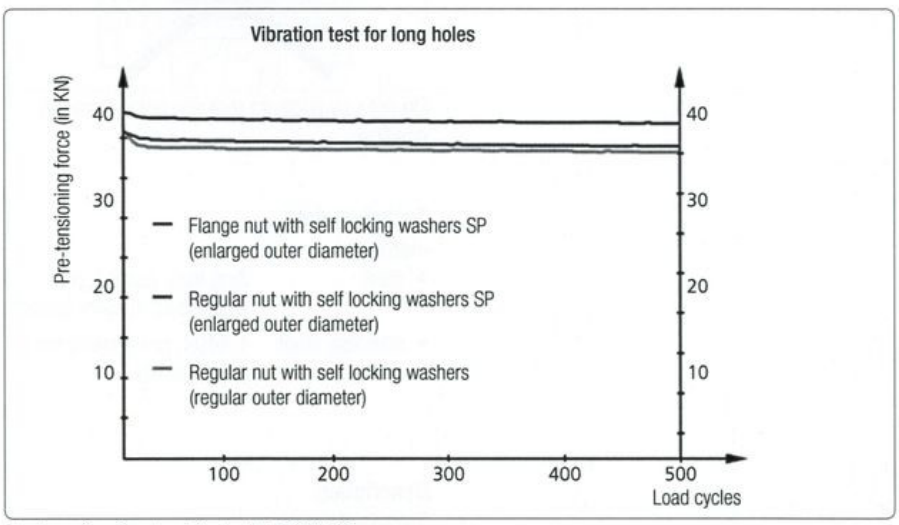


The cam angle α of the washers is larger than the thread pitch β of the bolt.

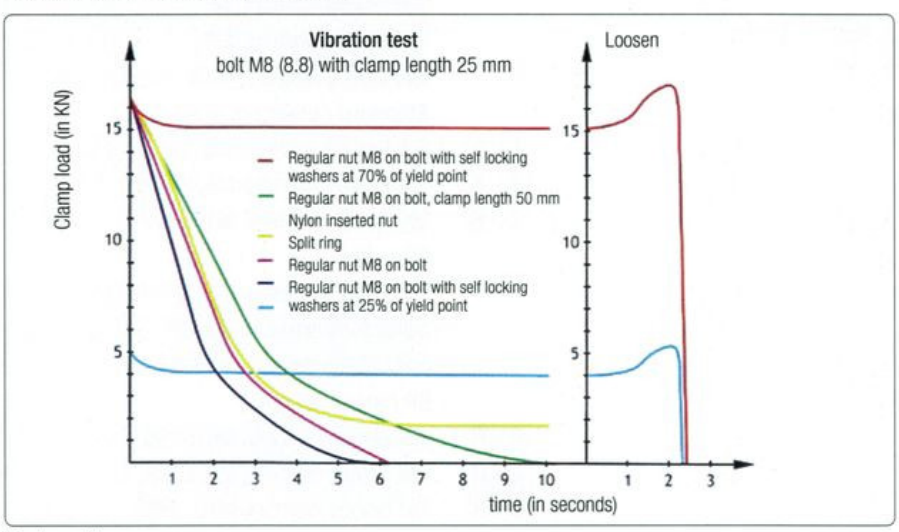
Advantages

- Maximum safety during the tightening of the screw
- Reliable connection under extreme vibration and dynamic loads
- Ease of assembly and disassembly
- Positive locking at low and high preload levels
- Same temperature characteristics as standard nut & bolt
- Surface protection
- Reusable

The outside dimensions of the locking washer guarantees it's effectiveness even when used in countersuck holes. Washers with enlarged outer diameter (SP) in combination with flanged nuts / bolts are recommended for use on large / long holes, painted surfaces or soft materials, e.g. aluminium.

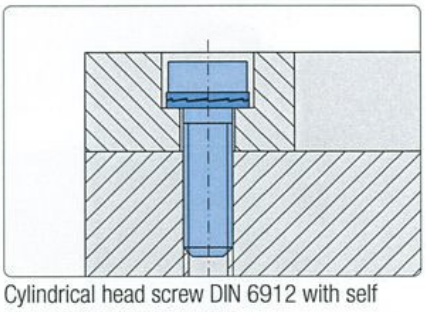


Junker vibration test for bolt M12 (8.8)



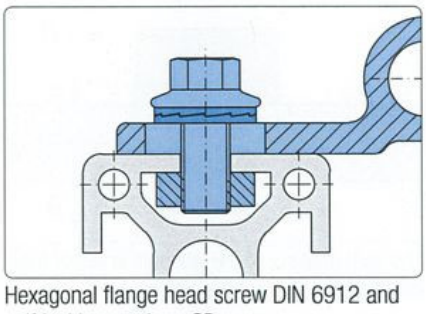
Test results

Self locking washers
standard

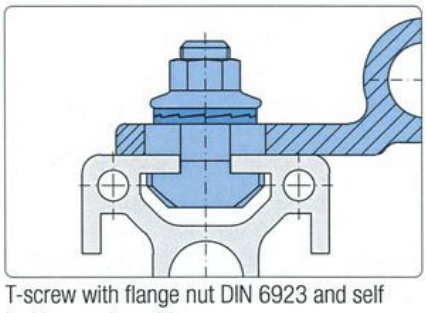


Cylindrical head screw DIN 6912 with self locking washers, standard

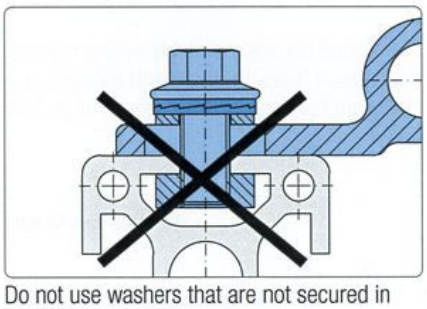
Self locking washers SP
(enlarged outer diameter)



Hexagonal flange head screw DIN 6912 and self locking washers SP



T-screw with flange nut DIN 6923 and self locking washers SP

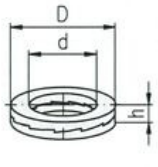


Do not use washers that are not secured in position

Technical data

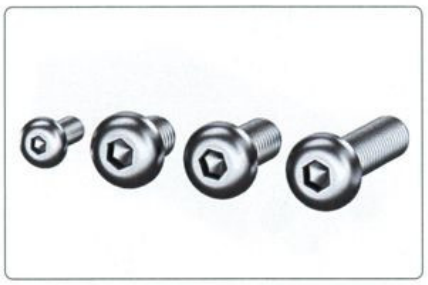
material:

- steel: Zinc flake coated, pre-assembled in pairs (glued)
- stainless steel: 1.4404, pre-assembled in pairs (glued)



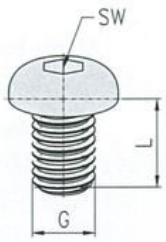
	Description	D	h	d	Weight	Article-No.
	Standard / steel					
	Self locking washers, M6	10.8	1.8	6.5	0.7 g	0.62.D2520106
	Self locking washers, M8	13.5	2.5	8.7	1.5 g	0.62.D2520108
	Self locking washers, M10	16.6	2.5	10.7	2.3 g	0.62.D2520110
	Standard / stainless steel					
C R	Self locking washers, M6, SS	10.8	2.2	6.5	0.9 g	0.62.D2520106SS
C R	Self locking washers, M8, SS	13.5	2.2	8.7	1.2 g	0.62.D2520108SS
C R	Self locking washers, M10, SS	16.6	2.2	10.7	1.6 g	0.62.D2520110SS
	SP / steel					
	Self locking washers, M6, SP	13.5	2.5	6.5	2.0 g	0.62.D2520106SP
	Self locking washers, M8, SP	16.6	2.5	8.7	2.9 g	0.62.D2520108SP
	Self locking washers, M10, SP	21.0	2.5	10.7	4.4 g	0.62.D2520110SP
	SP / stainless steel					
C R	Self locking washers, M6, SPSS	13.5	2.2	6.5	1.6 g	0.62.D2520106SPSS
C R	Self locking washers, M8, SPSS	16.6	2.2	8.7	2.4 g	0.62.D2520108SPSS
C R	Self locking washers, M10, SPSS	21.0	2.2	10.7	3.7 g	0.62.D2520110SPSS

Button head screws



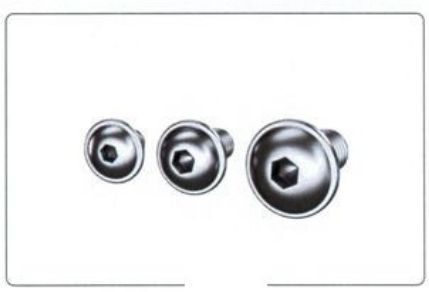
Application
Button head screws for the mounting of additional elements

Technical data
material: steel
surface: galvanised



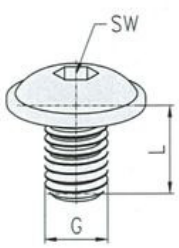
Description	G×L	SW	Weight	Article-No.
Button head screw	M5×12	3	2.4 g	0.63.WN7380.05012
Button head screw	M8×12	5	6.5 g	0.63.WN7380.08012
Button head screw	M8×18	5	8.5 g	0.63.WN7380.08018
Button head screw	M8×30	5	12.6 g	0.63.WN7380.08030

Lens head screws



Application
Lens head screws for the mounting of additional elements

Technical data
material: steel
surface: galvanised



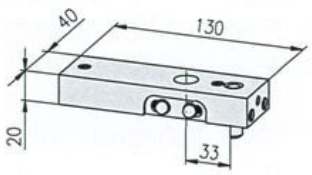
Description	G×L	SW	Weight	Article-No.
Lens head screw	M5×6	3	2.0 g	0.63.WN7381.05006
Lens head screw	M5×8	3	2.0 g	0.63.WN7381.05008
Lens head screw	M6×10	4	3.0 g	0.63.WN7381.06010
Lens head screw	M6×12	4	4.0 g	0.63.WN7381.06012
Lens head screw	M8×12	5	8.0 g	0.63.WN7381.08012
Lens head screw	M8×16	5	9.0 g	0.63.WN7381.08016

Press in device
for knurled cross bushing

Technical data
Base body:
- material: aluminium
- surface: natural anodised

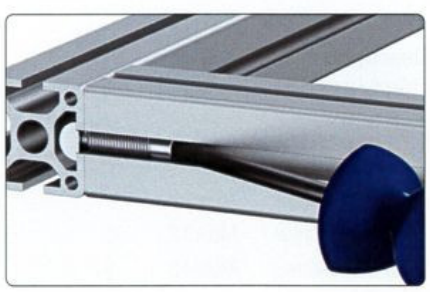
Axle bolt, spring:
- material: stainless steel

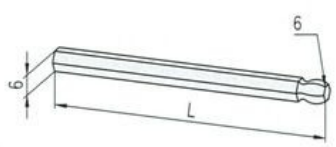
Other:
- material: steel
- surface: galvanised



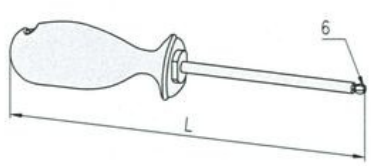
Description		Weight	Article-No.
Press in device for knurled cross bushing		310.0 g	1.98.11.21.B00R
Single parts	**Pcs**	**Weight**	**Article-No.**
Base body	1	216.0 g	1.98.11.21.B00R-01
Stopping pin	1	21.2 g	1.99.01112-05
Set screw for stop pin	1	1.8 g	1.99.01112-06
Dowel pin ISO 8752 (DIN 1481), 8×24 (for drill jig)	2	6.5 g	0.69.I08752.08024
Axle bolt complete, Ø8g 6×35 mm	2	15.6 g	1.98.11.21.B00R-05
Hex-socket set screw, DIN 913, M8×25	4	6.6 g	0.63.D00913.08025
Spring for T-screw, E	4	0.1 g	1.34.E00-02

Hexagonal tools





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

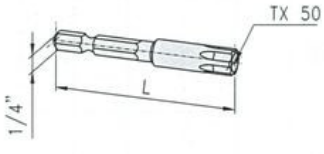


Description	L	Weight	Article-No.
Hexagonal screwdriver with ballhead wrench size 6	215	122 g	1.98.IN.SW6.215

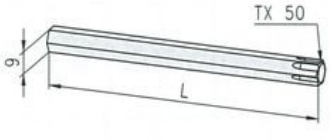
Torx® tools

Technical data
material: steel, hardened
surface: nickel-plated

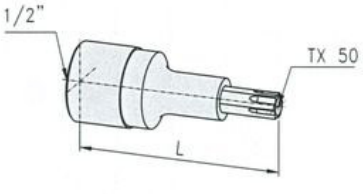
Description	Weight	Article-No.
Tx screw driver for TX 40 screws	54 g	1.98.T40.090090



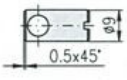
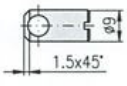
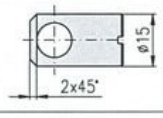
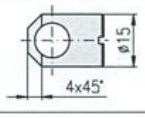
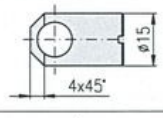
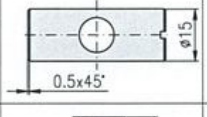
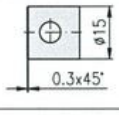
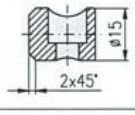
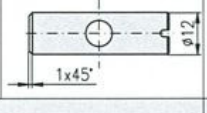
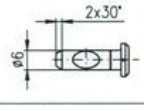
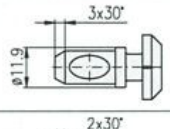
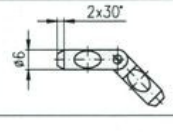
Description	L	Drive	Weight	Article-No.
Screw bit TX 50	50	C 6.3 (1/4")	16 g	1.98.TX50A1-4



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	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
		chamfer ×45°	1.5	3.5	-	2.0	-	1.5	2.0	1.5	3.5	2.0	-	1.5	1.0	-	1.5	3.5
Slot	Description	shaft-Ø	MK	MK	8.5	6.2	9.2	9.2	12.2	12.0	12.0	10.0	10.0	10.0	12.0	16.0	16.0	16.0
	Cross bushing																	
H F E	Standard						●						●					
H F E	for profile 20×20, soft							●						●				
H F E	Standard		●							●						●	●	
H F E	for profile • 30×30, soft • 30×100 • 30×150			●							●							●
H F E	for profile 40×40, 2E 45°, LP			●							●							●
H F E	for ST-Connector, profile 30×150		●	●						●	●					●	●	●
H F E	for SE-Connector															●		
H F E	for ST-Connector		●							●						●	●	
H F E	for ST-Connector with anchor, screw-type														●			
	Anchor																	
H F E	for connector, parallel					●						●						
H F E	for connector, parallel								●						●			
H F E	for connector, miter, hinge				●													

9

Drill jigs
for profiles with H-slots

Drill jig with setscrew

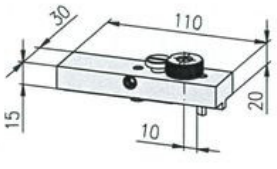
Drill jig with clamping lever

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

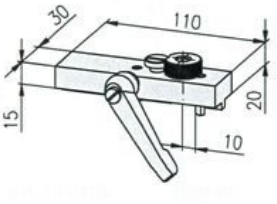
Drill jig
with setscrew



H F E

Description	Weight	Article-No.
Drill jig H with setscrew	189 g	1.99.01011
Single parts	**Weight**	**Article-No.**
Base body	120 g	1.99.01012-01
Drill bush for cross bushing, Ø9.2	50 g	1.99.01012-03
Safety screw for drill bush, M6×4	6 g	1.99.01012-04
Stop pin	2 g	1.99.01012-05
Connector	11 g	1.20.3-2H5
Accessories		
Drill bush for parallel-anchor, Ø6.2	43 g	1.99.01012-02

Drill jig
with clamping lever



H F E

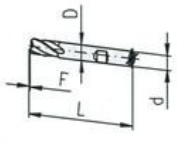
Description	Weight	Article-No.
Drill jig H with clamping lever	225 g	1.99.01012
Single parts	**Weight**	**Article-No.**
Base body	120 g	1.99.01012-01
Drill bush for cross bushing, Ø9.2	50 g	1.99.01012-03
Safety screw for drill bush, M6×4	6 g	1.99.01012-04
Stop pin	2 g	1.99.01012-05
Connector	11 g	1.20.3-2H5
Clamping lever 65, for connector, M6×20	36 g	1.29.650620
Accessories		
Drill bush for parallel-anchor, Ø6.2	43 g	1.99.01012-02

Tools
for profiles with H-slots

Drill, Milling cutter

Comments
Selection range ☛ *9.07*

Milling cutter
for • parallel-anchor
• cross bushing

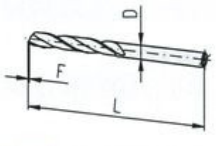


H F E

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

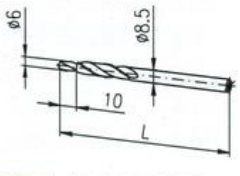


H F E

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



H F E

Technical data
material: HSS
2 cutting edges
cutting geometry for aluminium machining

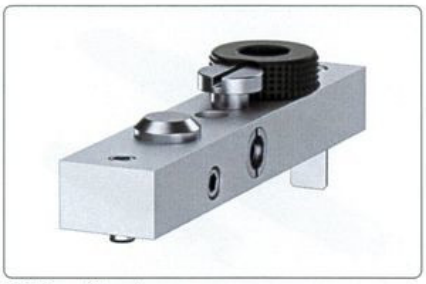
Application
To drill core hole

Comments
Machining instruction ☛ *2.10, 1.2A*

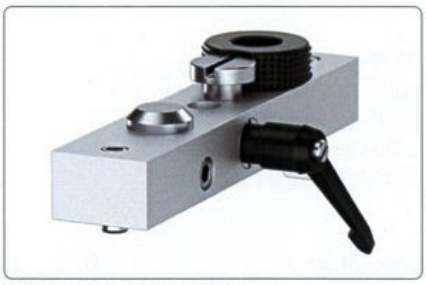
Description	D	L	Weight	Article-No.
Drill for miter anchor	Ø8.5	120	34 g	1.99.0310800

9

Drill jigs
for profiles with F- and E-slots



Drill jig with setscrew



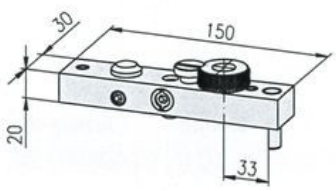
Drill jig with clamping lever

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

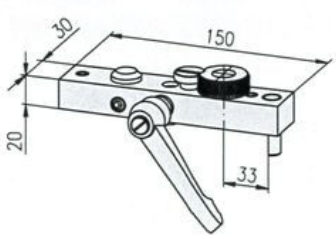
Drill jig
with setscrew



H F E

Description	Weight	Article-No.
Drill jig FE with setscrew	375 g	1.99.01111
Single parts	**Weight**	**Article-No.**
Base body	188 g	1.99.01112-01
Drill bush for cross bushing, Ø15.25	105 g	1.99.01112-03
Safety screw for drill bush, M8×5.5	11 g	1.99.01112-04
Stop pin	19 g	1.99.01112-05
Setscrew for stop pin	2 g	1.99.01112-06
Connector, parallel-high	30 g	1.21.31-2F5
Anchor	20 g	1.21.A2E5
Accessories		
Drill bush for parallel-anchor, Ø12.2	90 g	1.99.01112-02

Drill jig
with clamping lever



H F E

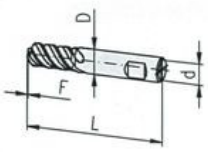
Description	Weight	Article-No.
Drill jig FE with clamping lever	438 g	1.99.01112
Single parts	**Weight**	**Article-No.**
Base body	188 g	1.99.01112-01
Drill bush for cross bushing, Ø15.25	105 g	1.99.01112-03
Safety screw for drill bush, M8×5.5	11 g	1.99.01112-04
Stop pin	19 g	1.99.01112-05
Setscrew for stop pin	2 g	1.99.01112-06
Connector, parallel-high	30 g	1.21.31-2F5
Anchor	20 g	1.21.A2E5
Clamping lever 80, for connector, M10×20	63 g	1.29.801020
Accessories		
Drill bush for parallel-anchor, Ø12.2	90 g	1.99.01112-02

Tools
for profiles with F- and E-slots

Drill, Milling cutter

Comments
Selection range ☛ *9.07*

Milling cutter
for • parallel-anchor
• cross bushing

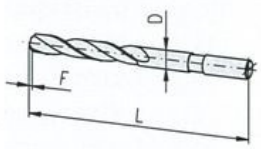


H F E

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

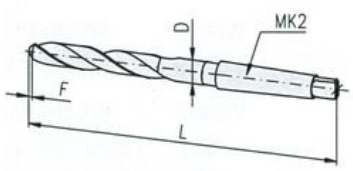


H F E

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

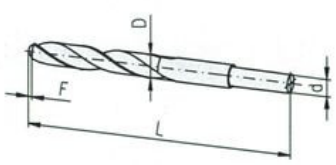


H F E

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



H F E

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

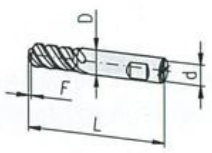
9

Tools
for profiles with F- and E-slots

Drill, Milling cutter

Comments
Selection range ☛ *9.07*

Milling cutter
for cross bushing

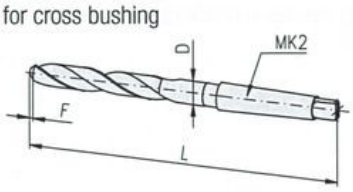


H F E

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

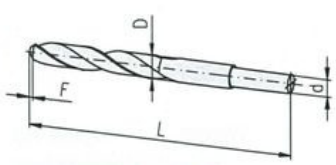


H F E

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

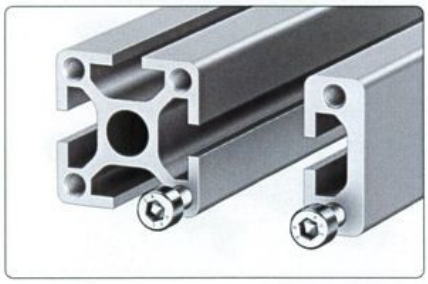


H F E

Technical data
material: HSS
2 cutting edges
cutting geometry for aluminium machining
off-centre cutting edges

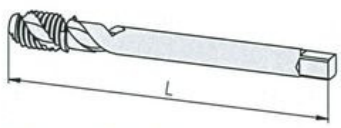
Description	D	L	F	d	Weight	Article-No.
Drill for cross bushing	Ø15.25	173	4.0×45°	Ø12	197 g	1.99.03215454

Screw taps
for aluminium machining



Application
Mounting threads in profile centre core hole Ø5 mm

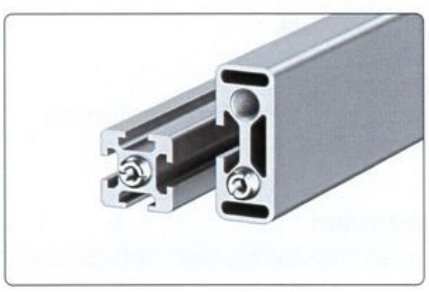
Screw tap
M6



16 20 30 40 45 50 60

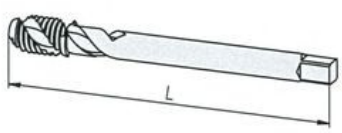
Technical data
material: HSS/E
machine threading tap:
- right hand cutting, 40° right spiral fluted
- enlarged chip flute
- 3-pitch thread start
- tolerance class: 6H

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

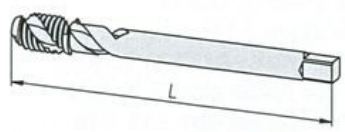
Description	G	L	Weight	Article-No.
Screw tap	M8	90	52 g	1.99.0408090

9

Screw taps
for aluminium machining

Application
Fastening thread in hollow chambers of profiles PG 50

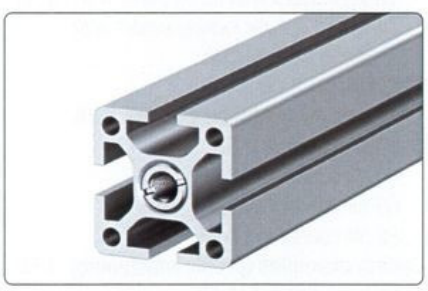
Screw tap
M12



16 20 30 40 45 **50** 60

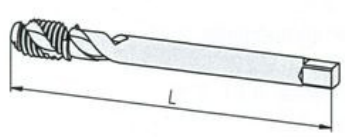
Technical data
material: HSS/E
machine threading tap:
- right hand cutting, 40° right spiral fluted
- enlarged chip flute
- 2-pitch thread start
- tolerance class: 6H

Description	G	L	Weight	Article-No.
Screw tap	M12	110	65 g	1.99.0412110



Application
Mounting threads in profile centre core hole Ø12 mm

Screw tap
M14



H F E

Technical data
material: HSS/E
machine threading tap:
- right hand cutting, 40° right spiral fluted
- enlarged chip flute
- 2-pitch thread start
- tolerance class: 6H

Description	G	L	Weight	Article-No.
Screw tap	M14	110	75 g	1.99.0414110
Screw tap	M14	150	105 g	1.99.0414150

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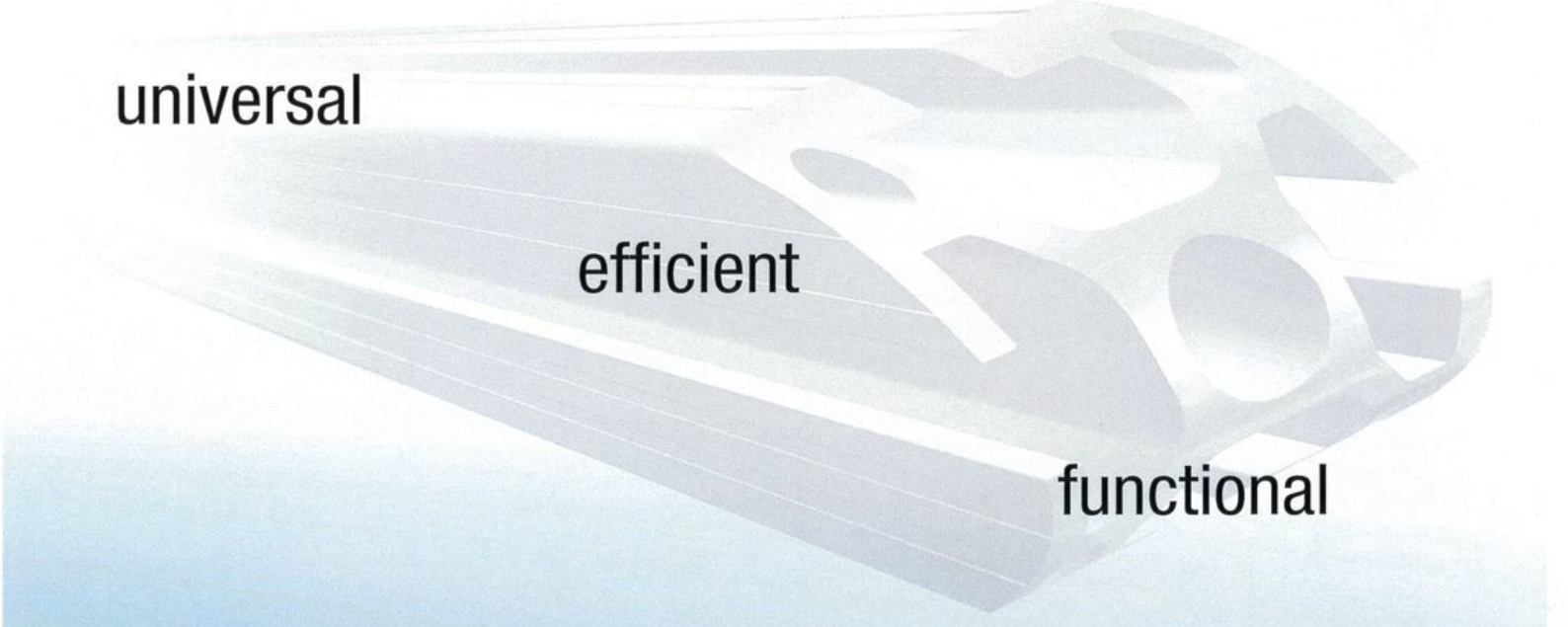
The key ...

to success



universal

efficient

functional

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