

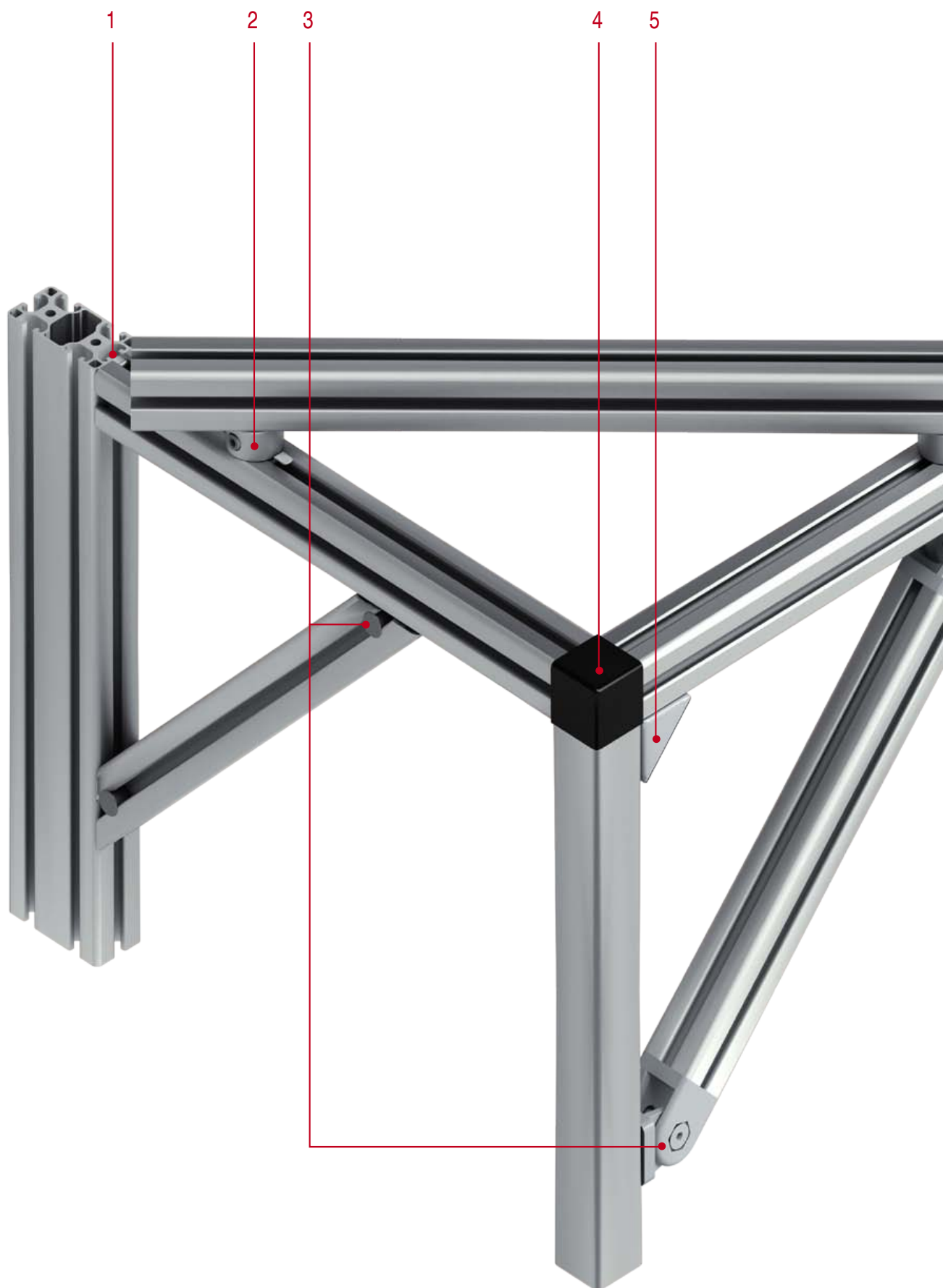


FASTENING TECHNOLOGY

2

Right-Angled Connections
Angled Connections
Cross-Profile Connections
Butt Fasteners
Parallel-Profile Connections
Secure Connections

Application example – fastening technology
Connecting profiles





1 Right-angled connections

- Fastening sets for the rapid and stable assembly of profiles
- Numerous variants for each application
- Innovative fastening sets for power-locking connections without profile machining



77

Section **2**

2 Cross-profile connections

- Power-lock connection between profiles that cross
- Adjustable to desired angle
- Solutions for rapid angle adjustment



112

Section **2**

3 Angle Fasteners

- Hinges and fasteners for constructions with non-standard angle measurements
- Angle elements for stable and lightweight latticework
- Adjustable solutions for the rapid installation of supporting struts



105

Section **2**

4 Corner fasteners

- Connect up to three profiles to form one corner unit
- For building tables, display cases and hoods
- Versatile design options thanks to various angles and caps



99

Section **2**

5 Angle Bracket Sets

- Additional hold without profile machining for load-bearing supports
- Wide selection ranging from simple angle brackets to heavy-duty anchor points
- Models with caps for a closed look and easy cleaning



90

Section **2**

6 T-Slot Nuts

- For fastening components
- Suitable for appropriate profile size
- Versions with different load-carrying capacities as required for specific applications



130

Section **3**

7 Butt fasteners

- For extending profiles
- Simple end-face connections
- Also suitable for use with mitre cuts



118

Section **2**

8 Parallel fasteners

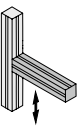








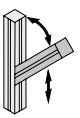





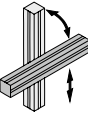









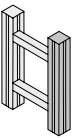



- Connect parallel profiles to make an exceptionally stable unit
- Available in various sizes and strengths
- Connection Profiles for extremely strong struts



123

Section **2**

Overview – finding the right fastener fast

Configuration	Application	Product
Right-angled profile connections		
	Extremely rapid and repositionable profile connections with no machining	Automatic-Fastening Sets  77
	High-strength and repositionable screw connections with minimal assembly requirements	Universal-Fastening Sets  79
	Cost-effective and fixed connection	Standard-Fastening Sets  82
	Flexible and rapid construction of frames for panel elements	Central-Fastening Sets  123
	Rapid profile connection with simple angle adjustment system	Click-Fastening Set 90°  88
	Right-angled profile connections at any angle of rotation	Direct-Fastening Set 90°  89
	Extra hold for load-bearing support profiles without additional profile machining	Angle Bracket Zn  90
	Simple connection of three profiles to form one corner unit	Corner Fastening Sets  99
Connections at various angles		
	Construction of load-carrying latticework and supporting struts at a 45° angle	Angle Elements  105
	Construction of fixable tool rails or load-carrying hinges	Hinges, heavy-duty  107
	Permanent swivel capability and secure connection	Ball-Bearing Hinge  109
	Easily adjustable fastening for lightweight attachments	Ball joint  110
	Movable profile connections at any angle	Mitre-Fastening Sets  111
Cross-profile connections		
	Power-lock connection between profiles that cross	Direct-Fastening Sets  112
	Rapid fixing of struts at any (variable) position with minimal assembly requirements	Click-Fastening Sets  113
	Cost-effective angled fixing	Face Fastening Set  114
	Secure and fixed connection between profiles that cross	Angle Clamp Brackets  116
	Shelves with high load-carrying capacity and extremely easy-to-use angle adjustment system	Angle Locking Bracket  117
Butt fasteners for extending lengths		
	High load-carrying capacity with average machining requirements	Universal-Butt-Fastening Sets  118
	Medium load-carrying capacity with no profile machining	Automatic Butt-Fastening Sets  120
	Fastening mitre-cut profiles to frames	Mitre-Butt-Fastening Sets  122
Parallel fasteners for adjoining profiles		
	Gap-free assembly with moderate profile machining	Central-Fastening Sets  123
	Partition assembly with small gaps and no profile machining	Parallel-Fastening Sets  124
	Strong, continuous struts for profile constructions with exceptional load-carrying capacity	Connecting Profiles  125



Note:

Technical data on fastening technology can be found in Section 19.

In addition to fasteners for profiles, the catalogue also contains additional fastening elements:

T-Slot Nuts – for universal fastening to the profile groove

Section 3

Panel Fasteners – for installing panels in profile constructions

Section 5

Floor elements – for fastening profiles to a floor or wall.

Section 11

Fastening technology

Products in this section



Automatic-Fastening Sets

- No profile machining required
- For stable, repositionable connections

877



Universal-Fastening Sets

- For stable, repositionable connections
- Minimal assembly requirements

79



Standard-Fastening Sets

- For a fixed profile connection
- Outstanding resistance to displacement and torsion

82



Automatic-Fastening Set 8 N

- For profiles with closed grooves
- Surfaces stay easy to clean

86



Central-Fastening Sets

- For building frames for panel elements
- Repositionable connection with a stand profile

87



Click-Fastening Set 8 90°

- Connect profiles at any angle of rotation
- Ideal for prototypes and temporary structures

88



Direct-Fastening Set 8 90°

- Right-angled connection at any angle of rotation
- Power-locking profile connection

89



Angle Brackets

- Reinforcement for profile connections
- Power-lock connection with no profile machining

90



Corner Fastening Sets

- Connect three profiles to form one corner unit
- Stylish covers in various shapes

99



Angle Elements

- Latticework reinforcement for profile constructions
- Profile connection at a 45° angle

105



Hinges, heavy-duty

- Stable connection at any angle of adjustment from 0° to 180°
- Clamp lever enables rapid adjustment

107



Ball-Bearing Hinge 8 40x40

- Enables movement through up to 180°
- Wear-resistant and robust

109



Ball Joint 8

- Two-dimensional pivoting
- Available with optional clamp lever for rapid adjustment

110



Mitre-Fastening Sets

- At any angle from 30° to 90°
- The profile groove stays free to accommodate panel elements

111



Click-Fastening Set 8

- For fitting profiles that cross at any position
- For assembling struts quickly, no machining required

113



Face Fastening Set 8

- Toothed fastener for inclined working and storage surfaces
- Angle adjustment in 5° increments

114



Angle Hinge Brackets, Angle Clamp Brackets

- Simple fixing for profiles that cross
- Angle adjustment via Angle Clamp Bracket

115



Angle Locking Bracket 8 80x40

- Angular adjustment without tools
- Secure, rigid connection

117



Butt-Fastening Sets

- Connect identical profiles via their end faces
- No profile machining necessary

120



Mitre-Butt-Fastening Sets

- Connect two profiles with the same mitre angle
- Overall angle of 60° to 180° possible

122



Central-Fastening Set P 8

- Connect two parallel Profiles 8
- Flush connection for partitioning and room dividers

123



Parallel Fastener

- Connect two parallel Profiles 8
- No machining required
- Easy to use thanks to snap-in function

124



Connecting Profiles

- Simple engineering for stable composite profiles
- For open and closed supports
- No machining required

125



Pin Elements

- Additional rigidity from dowel pin
- Excellent resistance against impact and overload

127



Note:

Technical data on fastening technology can be found in Section 19.



Automatic-Fastening Sets

The fastest and most flexible profile connection

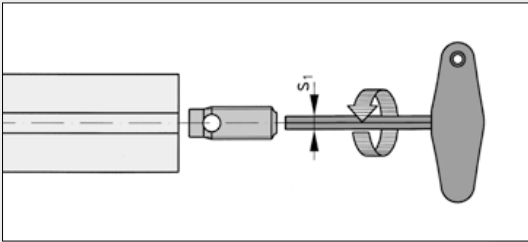
- No additional profile machining required
- For a profile connection that is stable and can also be repositioned
- Outstanding resistance to displacement, torsion and deflection



The Automatic-Fastening Set is an innovative solution for power-lock connections between profiles. Because no profile machining is required, it can be fitted quickly and easily. Due to the special design of the fasteners in the set, screw connections are all that is needed to fix them in place. They can be retrofitted to structures and repositioned in a matter of moments.

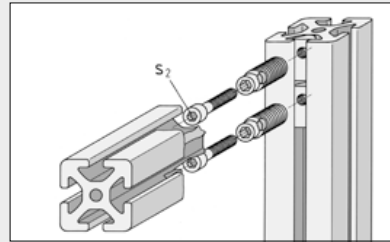
Automatic Fasteners can withstand the heaviest loads. A stainless steel version is also available for special requirements.

The Automatic-Fastening Set ensures that design engineers benefit from maximum design flexibility without having to compromise on stability.

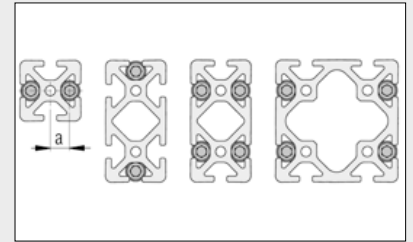


The Fastener is screwed into a profile groove in the end face, the thread being cut automatically. Use of a lubricant is recommended.

Note: All Fasteners with a through bore for the fastening screw have a counter-clockwise thread on the outside in order to prevent the Fastener twisting when the screw is tightened.



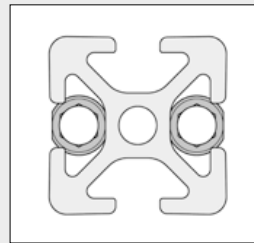
L-Keys from item are the ideal tool for tightening the screws of the Automatic-Fastening Set (tightening torque M).



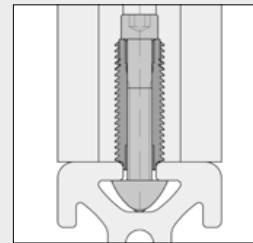
Automatic-Fastening Sets should always be used in pairs.

Automatic-Fastening Set

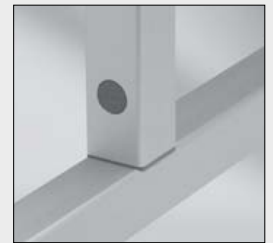
	5	6	8	10	12
a [mm]	6.8	9.5	13.2	16.2	19.5
s ₁	4 A/F	5 A/F	6 A/F	8 A/F	8 A/F
s ₂	3 A/F	4 A/F	5 A/F	5 A/F	6 A/F



Automatic-Fastening Set 5 should be inserted so that the flattening on the thread is flush with the outer edge of the profile.



Automatic-Fastening Sets 6, 8, 10 and 12 also have an anti-torsion feature. Once the profile has been pre-assembled, this feature can be deployed by unscrewing the fastener sufficiently so that the end of it projects into the profile groove.

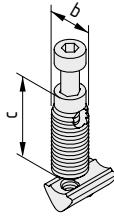


A special version of the Automatic-Fastening Set is available for Profile 8 with closed grooves (which can be opened up).

Automatic-Fastening Set 8 N 85

The following applies to all the sets below:

Automatic Fastener, St
Hexagon Socket Head Cap Screw, St
T-Slot Nut St



Automatic-Fastening Set 5 5

b = 7 mm c = 24 mm $M_{\text{bright zinc-plated}} = 2.5 \text{ Nm}$ m = 8.0 g
bright zinc-plated, 1 set 0.0.391.60

Automatic-Fastening Set 5 5

b = 7 mm c = 24 mm $M_{\text{stainless}} = 2.5 \text{ Nm}$ m = 8.0 g
stainless, 1 set 0.0.437.46

Automatic-Fastening Set 6 6

b = 10 mm c = 27 mm $M_{\text{bright zinc-plated}} = 8.0 \text{ Nm}$ m = 18.0 g
bright zinc-plated, 1 set 0.0.419.71

Automatic-Fastening Set 6 6

b = 10 mm c = 27 mm $M_{\text{stainless}} = 6.5 \text{ Nm}$ m = 18.0 g
stainless, 1 set 0.0.441.67

Automatic-Fastening Set 8 8

b = 12 mm c = 31 mm $M_{\text{bright zinc-plated}} = 14 \text{ Nm}$ m = 35.0 g
bright zinc-plated, 1 set 0.0.388.08

Automatic-Fastening Set 8 8

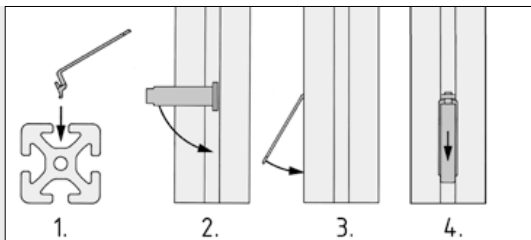
b = 12 mm c = 31 mm $M_{\text{stainless}} = 11 \text{ Nm}$ m = 35.0 g
stainless, 1 set 0.0.440.58

Automatic-Fastening Set 10 10

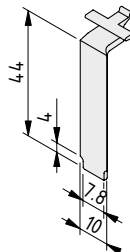
b = 15 mm c = 39 mm $M_{\text{bright zinc-plated}} = 25 \text{ Nm}$ m = 69.5 g
bright zinc-plated, 1 set 0.0.624.74

Automatic-Fastening Set 12 12

b = 18 mm c = 47 mm $M_{\text{bright zinc-plated}} = 34 \text{ Nm}$ m = 125.0 g
bright zinc-plated, 1 set 0.0.003.50



A cover is available for Automatic-Fastening Set 8. It is fitted after the fastening has been installed.



Automatic-Fastening Set 8 Cap 8

PA-GF
m = 0.7 g
black, similar to RAL 9005, 1 pce. 0.0.388.66
grey similar to RAL 7042, 1 pce. 0.0.616.31



Universal-Fastening Sets

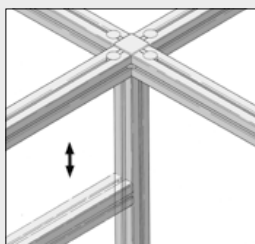
The high-strength and flexible profile connection

- For a profile connection that is stable and can also be repositioned
- Outstanding resistance to displacement, torsion and deflection
- Minimal assembly requirements – just one hole to cut

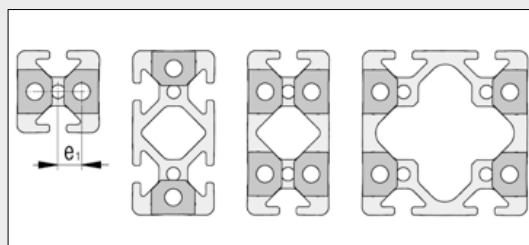
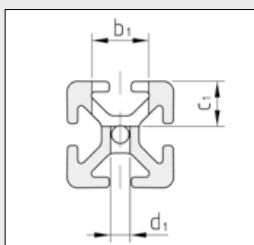
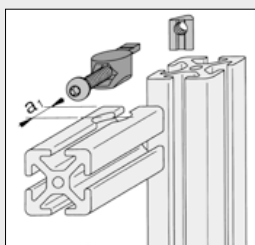


When it comes to creating flexible and strong profile connections, the Universal-Fastening Sets from item are an excellent choice. They are anchored via a single hole cut into one profile, while the fastening in the second profile can be repositioned at any time. As a result, they can also be installed in existing constructions.

Universal Fasteners made from cast stainless steel are exceptionally resistant to strong forces, changes in temperature and vibrations. They are also ideal for use in outdoor areas and cleanrooms.



Where required, the anti-torsion pin of the Universal Fastener can be broken off at a specified breakpoint. This Universal-Fastening Set can thus also be used to secure profiles to e.g. panels.



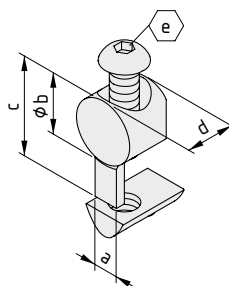
Universal-Fastening Sets should always be used in pairs.

Universal-Fastening Set

	5	6	8	10	12
a_1	10.0 mm	15.0 mm	20.0 mm	25.0 mm	30.0 mm
b_1	Ø 12.0 mm	Ø 16.0 mm	Ø 20.0 mm	Ø 25.0 mm	Ø 30.0 mm
c_1	8.5 mm	12.7 mm	16.0 mm	20.0 mm	24.0 mm
d_1	Ø 4.3 mm	Ø 5.5 mm	Ø 7.0 mm	Ø 9.0 mm	Ø 12.0 mm
e_1	5.8 mm	8.7 mm	12.0 mm	15.1 mm	17.8 mm

The following applies to all the sets below:

Universal Fastener, die-cast zinc
Screw, St
T-Slot Nut, St



Universal-Fastening Set 5

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	M_{bz-p} [Nm]	m [g]
5	12	17.2	8.5	3	3	7.0
bright zinc-plated, 1 set						0.0.370.27

Universal-Fastening Set 5

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	$M_{stainl.}$ [Nm]	m [g]
5	12	17.2	8.5	3	2.4	7.0
stainless, 1 set						0.0.437.52

Universal-Fastening Set 6


a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	M _{bz-p} [Nm]	m [g]
6.2	16	25.2	12.6	4	8	18.0
bright zinc-plated, 1 set						0.0.419.52

Universal-Fastening Set 6


a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	M _{stainl.} [Nm]	m [g]
6.2	16	25.2	12.6	4	6.5	18.0
stainless, 1 set						0.0.441.74

Universal-Fastening Set 8


a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	M _{bz-p} [Nm]	m [g]
8	20	33.5	16	5	25	41.0
bright zinc-plated, 1 set						0.0.026.92

Universal-Fastening Set 8


a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	M _{stainl.} [Nm]	m [g]
8	20	33.5	16	5	20	41.0
stainless, 1 set						0.0.444.18

Universal-Fastening Set 8 St


Universal Fastener St, stainless

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	M _{bz-p} [Nm]	m [g]
8	20	32.5	16	5	25	45.0
bright zinc-plated, 1 set						0.0.488.60

Universal-Fastening Set 8 St


Universal Fastener St, stainless

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	M _{stainl.} [Nm]	m [g]
8	20	32.5	16	5	20	45.0
stainless, 1 set						0.0.488.51

Universal-Fastening Set 10

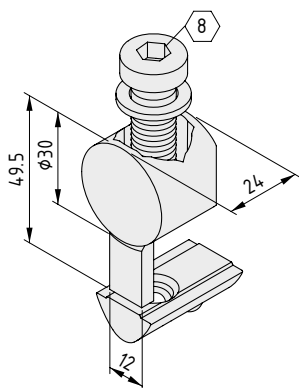

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	M _{bz-p} [Nm]	m [g]
10	25	41	20	6	46	97.4
bright zinc-plated, 1 set						0.0.632.07

Universal-Fastening Set 12


Universal Fastener 12, die-cast zinc
Hexagon Socket Head Cap Screw DIN 7984-M12x45, St
Washer DIN 433-13, St
T-Slot Nut 12 St M12

M_{bright zinc-plated} = 60 Nm m = 155.0 g

bright zinc-plated, 1 set						0.0.003.57
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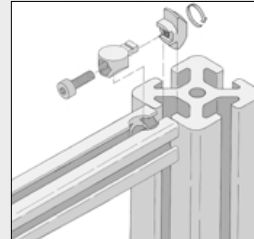
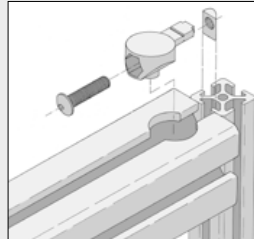


Universal-Fastening Sets 5/8 and 8/5

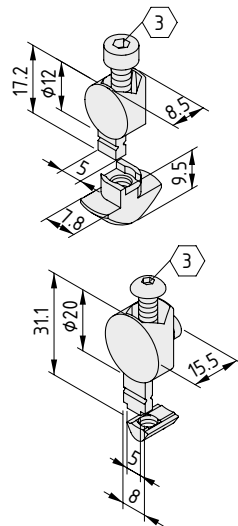
- For connecting together profiles from Lines 5 and 8
- Suitable for retrofitting and repositionable



For universal power-lock interconnection of Profiles 5 and Profiles 8. Suitable for profiles which need to be moved subsequently, since only one profile is processed. These Fastening Sets can be installed easily into existing constructions. Connection processing of the profiles is the same as for the Universal-Fastening Sets.



Universal-Fastening Sets should always be used in pairs. Where required, the anti-torsion pin of the Universal Fastener can be broken off at a specified breakpoint.



Universal-Fastening Set 5/8



Universal Fastener 5, die-cast zinc
Hexagon Socket Head Cap Screw DIN 912-M4x18, St
Special T-Slot Nut 8 Zn M4

$M_{\text{bright zinc-plated}} = 3 \text{ Nm}$ $m = 9.0 \text{ g}$

bright zinc-plated, 1 set

0.0.370.34

Universal-Fastening Set 8/5



Universal Fastener 8/5, die-cast zinc
Button-Head Screw ISO 7380-M5x25, St
T-Slot Nut 5 St M5

$M_{\text{bright zinc-plated}} = 3 \text{ Nm}$ $m = 18.0 \text{ g}$

bright zinc-plated, 1 set

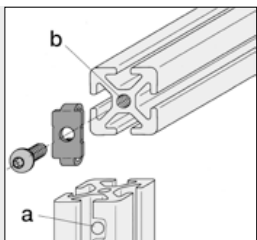
0.0.370.25



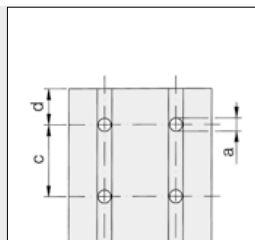
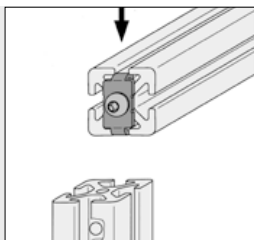
Standard-Fastening Sets

Stable, fixed screw connection for profiles

- For a fixed profile connection
- Outstanding resistance to displacement and torsion



The necessary thread is tapped directly into the core bore of the profiles.



Position of the through holes for the key.

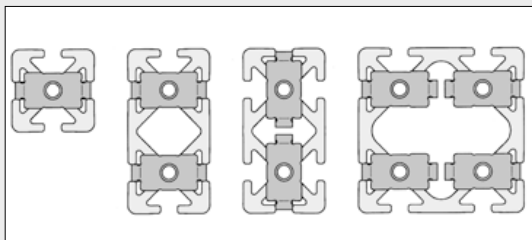


Standard-Fastening Set ESD is used in the same way as a conventional Standard-Fastening Set. The special design of the fastening screw partially destroys the insulating anodized layer on the profile groove and creates an electrical contact between the connected profiles.

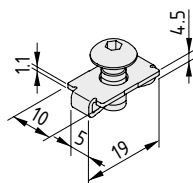
For better identification, fastening elements ESD are given a yellow passivation layer in compliance with Directive 2002/95/EC ("RoHS").

Standard-Fastening Set

	5	6	8	8 E	10	12
a	Ø 4.3 mm	Ø 5.5 mm	Ø 7 mm	Ø 7 mm	Ø 9 mm	Ø 11.5 mm
b	M5 12 mm deep	M6 15 mm deep	M8 16 mm deep	-	M10 22 mm deep	M12 30 mm deep
c	20 mm	30 mm	40 mm	40 mm	50 mm	60 mm
d	10 mm	15 mm	20 mm	20 mm	25 mm	30 mm



The standard connecting plates can be arranged in the required direction to match the way in which the profiles are fitted. Large profiles with high load-bearing capabilities can be connected using a larger number of Standard Fasteners.



Standard-Fastening Set 5

Standard connecting plate 5, St
Special Button-Head Screw similar to ISO 7380-M5x12, St
 $M_{\text{bright zinc-plated}} = 4.5 \text{ Nm}$ $m = 4.0 \text{ g}$

bright zinc-plated, 1 set

0.0.370.08

Standard-Fastening Set 5

$M_{\text{stainless}} = 3.6 \text{ Nm}$ $m = 4.0 \text{ g}$

stainless, 1 set

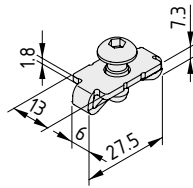
0.0.437.49

Standard-Fastening Set 5 ESD

$M_{\text{bright zinc-plated}} = 4.5 \text{ Nm}$ $m = 4.0 \text{ g}$

bright zinc-plated, 1 set

0.0.612.14

**Standard-Fastening Set 6**

Standard connecting plate 6, St
 Special Button-Head Screw similar to ISO 7380-M6x14, St
 $M_{\text{bright zinc-plated}} = 10 \text{ Nm}$ $m = 9.0 \text{ g}$

bright zinc-plated, 1 set

0.0.419.14

Standard-Fastening Set 6

$M_{\text{stainless}} = 8 \text{ Nm}$ $m = 9.0 \text{ g}$

stainless, 1 set

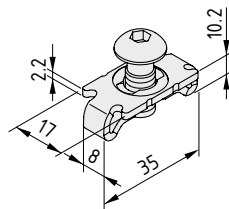
0.0.439.10

Standard-Fastening Set 6 ESD

$M_{\text{bright zinc-plated}} = 10 \text{ Nm}$ $m = 9.0 \text{ g}$

bright zinc-plated, 1 set

0.0.612.04

**Standard-Fastening Set 8**

Standard connecting plate 8, St
 Special Button-Head Screw similar to ISO 7380-M8x20, St
 $M_{\text{bright zinc-plated}} = 25 \text{ Nm}$ $m = 21.0 \text{ g}$

bright zinc-plated, 1 set

0.0.026.07

Standard-Fastening Set 8

$M_{\text{stainless}} = 20 \text{ Nm}$ $m = 21.0 \text{ g}$

stainless, 1 set

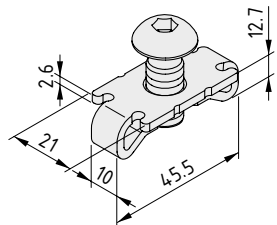
0.0.388.79

Standard-Fastening Set 8 ESD

$M_{\text{bright zinc-plated}} = 25 \text{ Nm}$ $m = 21.0 \text{ g}$

bright zinc-plated, 1 set

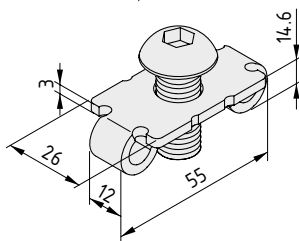
0.0.610.11

**Standard-Fastening Set 10**

Standard connecting plate 10, St
 Special Button-Head Screw similar to ISO 7380-M10x25, St
 $M_{\text{bright zinc-plated}} = 46 \text{ Nm}$ $m = 43.2 \text{ g}$

bright zinc-plated, 1 set

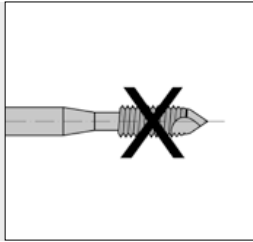
0.0.625.08

**Standard-Fastening Set 12**

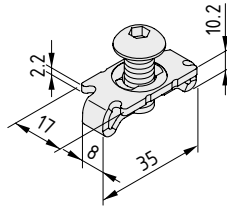
Standard connecting plate 12, St
 Special Button-Head Screw similar to ISO 7380-M12x30, St
 $M_{\text{bright zinc-plated}} = 80 \text{ Nm}$ $m = 70.0 \text{ g}$

bright zinc-plated, 1 set

0.0.003.35



For connections with slightly reduced loading, Line 8 features Standard-Fastening Set 8 E with a self-threading special screw which further reduces the machining requirement.



Standard-Fastening Set 8 E



Standard connecting plate 8, St
Self-threading, Button-Head Screw, head shape similar to ISO 7380-M7.3x20, St
 $M_{\text{bright zinc-plated}} = 20 \text{ Nm}$ $m = 20.0 \text{ g}$

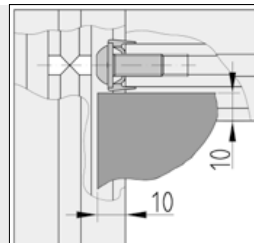
bright zinc-plated, 1 set

0.0.421.75

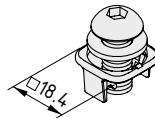


Standard-Fastening Set 8 K is a special version of the proven Standard-Fastening Set. It is employed for right-angled connection of Line 8 Profiles in which the profile grooves are used for holding panel elements.

Panel elements can be slid into the profile groove without needing cutouts in the corners.



We recommend that panel elements be inserted to a depth of 10 mm into a Profile 8 groove.



Standard-Fastening Set 8 K



Spacer, POM, black
Washer ISO 7089-8, St, bright zinc-plated
Button-Head Screw ISO 7380-M8x20, St, bright zinc-plated
 $M = 25 \text{ Nm}$ $m = 11.0 \text{ g}$

1 set

0.0.488.07

Standard-Fastening Set 8 K ESD



Spacer, POM, black
Washer D9/D16-1.6, St, bright zinc-plated
Button-Head Screw M8x20 ESD, St, bright zinc-plated
 $M = 25 \text{ Nm}$ $m = 11.0 \text{ g}$

1 set

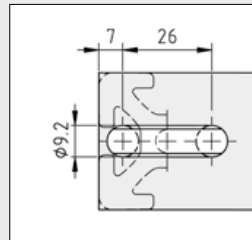
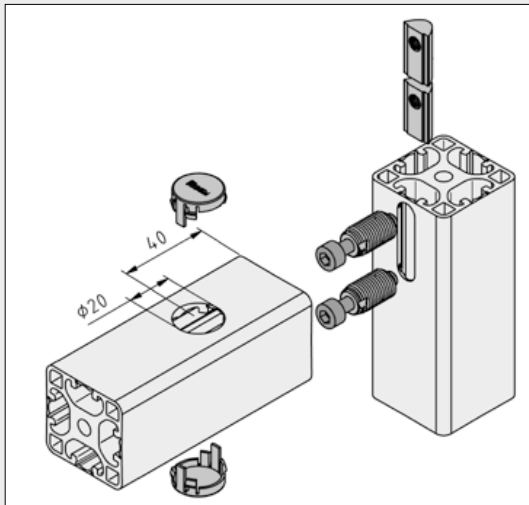
0.0.625.33

Automatic-Fastening Set 8 N

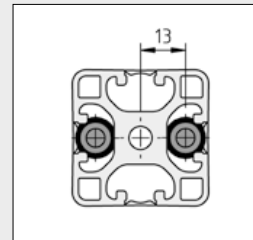
- For rectangular profiles with closed grooves
- Surfaces stay easy to clean



Special form of the Automatic-Fastening Set for installation in profiles with closed grooves. The groove is opened as shown below.



Opening the closed groove of a Line 8 Profile in order to insert the T-Slot Nuts of two Automatic-Fastening Sets 8 N.



Automatic-Fastening Sets should always be used in pairs.



The fastener is located inside the profile cavity. To access the fastening screw just drill a hole into the profile. The grey Cap is used to close the hole.

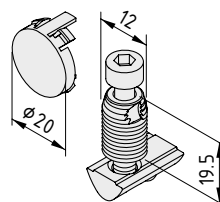
A T-Slot Nut is inserted into the groove in the second profile and forms the counterpart for the Automatic Fastener screw. If this groove in the second profile is also closed, the T-Slot Nut must be inserted from either the profile's end face or through a larger opening in the groove cover created beforehand.



Note:

A special 5 A/F N L-Key is available for tightening the screw connection of Automatic-Fastening Sets 8 N.

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Automatic-Fastening Set 8 N

Automatic Fastener 8 N, St, black
 Cap, PA grey
 Hexagon Socket Head Cap Screw M6x30, St, bright zinc-plated
 T-Slot Nut V 8 St M6, bright zinc-plated
 M = 14 Nm m = 27.0 g

1 set

0.0.489.96



Automatic-Fastening Set 8 N D40

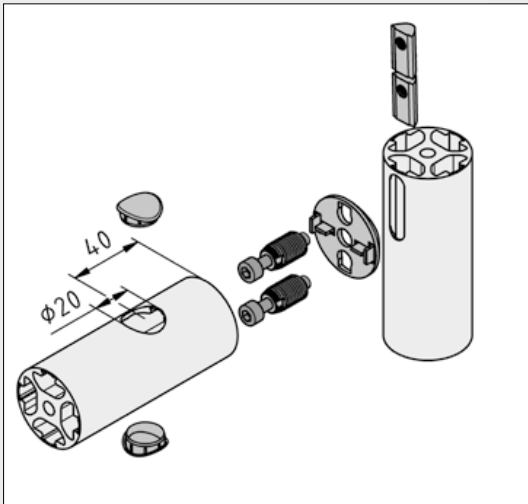
- Connect cylindrical Profiles 8 D40
- Suitable for open and closed grooves



Automatic-Fastening Set 8 N D40 can be used for connecting Profiles 8 D40 to other Profiles 8 D40 or – if an Adapter 8 D40 is used – to Profiles 8 with rectangular cross-sections.

When used with Profiles 8 that have closed grooves, a hole with a diameter of 20 mm must be cut into the profile, 40 mm from the profile end face, for the fastening screw.

However, when used with profiles that have open grooves, there is no need to machine the profiles. The self-tapping Automatic Fastener is simply driven into the profile groove from the end face.



Automatic-Fastening Set 8 N D40 can be used to connect Profiles 8 with both open and closed grooves (where designed for opening). To cover the mounting bore in the side face of profiles with closed grooves, Automatic-Fastening Set 8 N D40 contains Caps for Profiles 8 with rectangular and round cross-sections. Depending on the profile attached, the Cap with a rounded or flat outer contour will be used. In the case of Profiles 8 with open grooves, no bore is needed. Consequently, the Caps are not required in this instance.

The length of the screw in Automatic-Fastening Set 8 N D40 is matched to the thickness of Adapter 8 D40. The full length of the thread is therefore available in order to ensure that the maximum fastening force is applied.

Adapter 8 D40

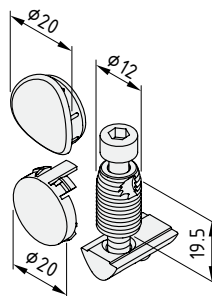
104



Note:

A special 5 A/F N L-Key is available for tightening the screw connection of Automatic-Fastening Sets 8 N.

594



Automatic-Fastening Set 8 N D40



Automatic Fastener 8 N, St, black
2 caps, PA grey
Hexagon Socket Head Cap Screw M6x32, St, bright zinc-plated
T-Slot Nut V 8 St M6, bright zinc-plated
M = 14 Nm m = 28.5 g

1 set

0.0.493.91

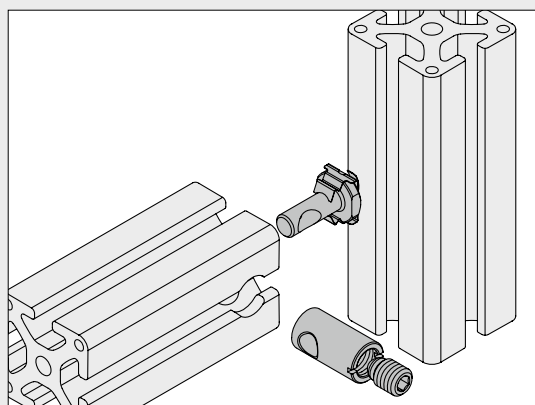
Central-Fastening Set

- For building frames for panel elements
- Flexible connection with a stand profile
- Medium resistance to displacement

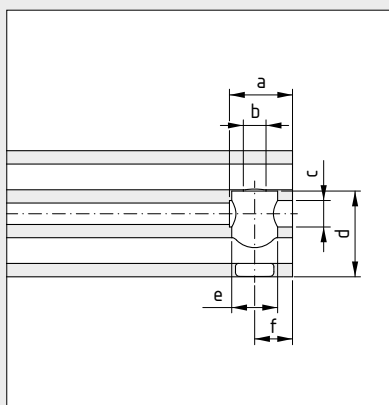


The Central-Fastening Set connects profiles at right angles to each other and leaves the grooves that are facing each other completely free. This is useful when the profile grooves are

to accommodate a panel element. It eliminates the need to specially machine the corner areas of the panel element, which instead can be inserted directly into the grooves.



Due to the reduced clamping force and the lack of any anti-torsion feature between the profiles, this fastening set should only be used in combination with panel elements in the profile groove and only for profile connections subject to low loads. Where more stringent requirements need to be satisfied and parts are important for safety considerations, it is advisable to use the proven fastening techniques for basic constructions (Standard-Fastening, Universal-Fastening or Automatic-Fastening Sets).



The profile to be connected via its end face needs to be machined before the Central-Fastening Set can be used.

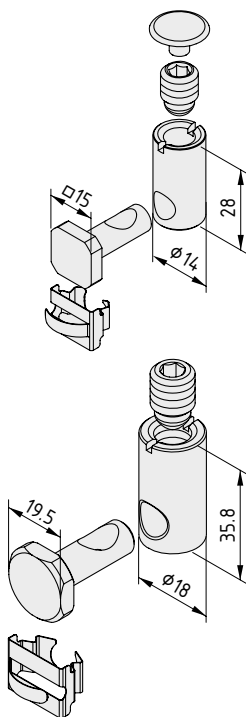
The hole to accommodate Central-Fastening Set 8 should be produced with Step Drill D14.2 (0.0.492.60).

The hole to accommodate Central-Fastening Set 10 should be produced with Step Drill D18.2 (0.0.632.75).

Central-Fastening Set

	a	b	c	d	e	f
8	20 mm	Ø 7 mm	Ø 8.2 mm	26.7 mm	Ø 14.2 mm	12/11 mm*
10	25 mm	Ø 9 mm	Ø 10.5 mm	34 mm	Ø 18.2 mm	15 mm

* When using Radius Seals in combination with Central-Fastening Set 8, the distance between the hole and the end face of the profile should be reduced from 12 mm to 11 mm.



Central-Fastening Set 8



Clamping pin, St, bright zinc-plated
Clamping spring, St, stainless
Sleeve with bore, St, bright zinc-plated
Grub screw M10, St, bright zinc-plated
Cap, PA grey
M = 15 Nm m = 35.0 g

1 set

0.0.494.15

Central-Fastening Set 10



Clamping pin, St, bright zinc-plated
Spring element, St, stainless
Sleeve with bore, St, bright zinc-plated
Grub screw M12, St, bright zinc-plated
M = 22 Nm m = 87.0 g

bright zinc-plated, 1 set

0.0.632.74

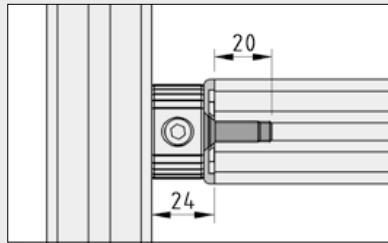
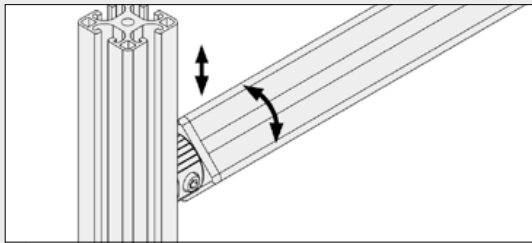


Click-Fastening Set 8 90°

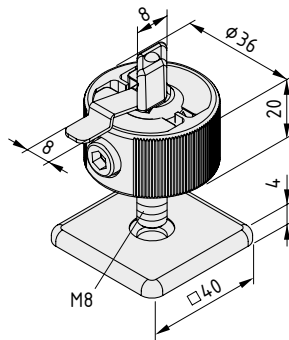
- For simple and flexible constructions
- Connect profiles at any angle of rotation
- Repositionable
- Ideal for prototypes and temporary structures



One click and it's ready – it really can be that easy to fit a strut. The practical Click Fastening Set connects together profiles at any point and at virtually any angle of rotation. Profile sections can be easily added to existing constructions and used as reusable, variable struts. That makes the Click-Fastening Set particularly useful when building temporary structures. Modifications can also be made quickly and easily.



To use Click-Fastening Set 8 90°, the core bore of the Profile 8 connected via the end face must have an M8x20 tapped hole. In this case, the distance between the end face of the profile and the side of the second profile is 24 mm.



Click-Fastening Set 8 90°



Clamping profile Al, natural
Clamping elements, St, stainless
Locking strip, St, stainless
Hex. Socket Head Cap Screw M6x25, St, bright zinc-plated
Tensioning screw M8, St, bright zinc-plated
Cap 8 40x40, die-cast zinc, white aluminium
m = 125.0 g

1 set

0.0.606.94

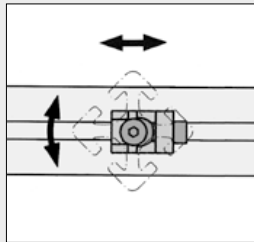


Direct-Fastening Set 8 90°

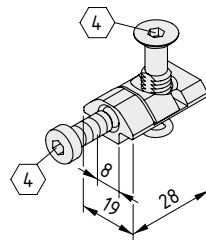
- Right-angled profile connections
- Connections possible at any angle of rotation



Direct-Fastening Set 8 90° is used for right-angled connection of Profiles 8. The profile can be secured at the end face and at any angle. The core bore must have an M8x16 thread.



Direct-Fastening Set 8 90° is particularly suitable when a repositionable connection is required with a profile that has one or more closed grooves and Universal or Automatic Fasteners cannot be used.

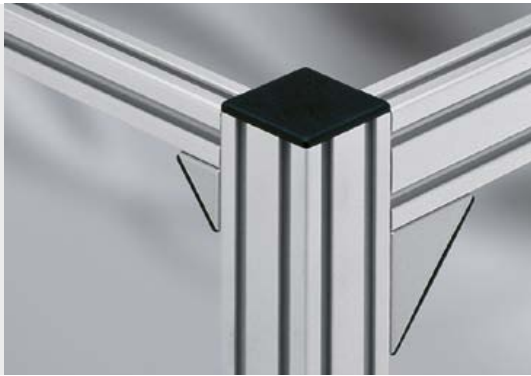


Direct-Fastening Set 8 90°



Fastener, die-cast steel
 Countersunk Screw M8x27, St
 O-ring, NBR, black
 Hexagon Socket Head Cap Screw DIN 7984-M6x14, St
 $M_{\text{stainless}} = 5.5 \text{ Nm}$ $m = 30.0 \text{ g}$
 stainless, 1 set

0.0.388.67



Angle Bracket Zn

Simple, stable connection

- Reinforcement for profile connections
- Power-lock connection with no profile machining
- Can be retrofitted rapidly
- Products from Line X also available



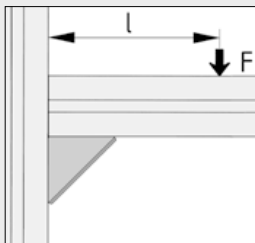
To ensure Angle Bracket installation is particularly straightforward, it is advisable to use the Angle Bracket Sets containing the corresponding screws and special washers.



Angle Brackets are ideal for connecting cable conduits. The rounded internal edge prevents damage to the cables.



Specially designed Angle Brackets X 8 are available for profile constructions built with Line X.



When used to reinforce the joints of large profiles or conduits, several Angle Brackets can be used in parallel.

Note: Ensure the maximum permissible tensile load on the Profile Groove is not exceeded!

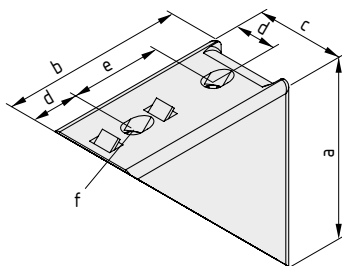
Note: For Angle Brackets of Lines 6, 8 and 12, special square washers are used to improve the application of the clamping force.

Angle Bracket 5	20x20 Zn	$F < 250 \text{ N} \wedge F \times l < 5 \text{ Nm}$
Angle Bracket 5	40x40 Zn	$F < 500 \text{ N} \wedge F \times l < 25 \text{ Nm}$
Angle Bracket 6	30x30 Zn	$F < 500 \text{ N} \wedge F \times l < 12 \text{ Nm}$
Angle Bracket 6	60x60 Zn	$F < 1,000 \text{ N} \wedge F \times l < 36 \text{ Nm}$
Angle Bracket (X) 8	40x40 Zn	$F < 1,000 \text{ N} \wedge F \times l < 50 \text{ Nm}$
Angle Bracket (X) 8	80x80 Zn	$F < 2,000 \text{ N} \wedge F \times l < 150 \text{ Nm}$
Angle Bracket 8	160x80 Zn	$F < 2,000 \text{ N} \wedge F \times l < 150 \text{ Nm}$
Angle Bracket 10	50x50 Zn	$F < 1,500 \text{ N} \wedge F \times l < 75 \text{ Nm}$
Angle Bracket 10	100x100 Zn	$F < 3,000 \text{ N} \wedge F \times l < 200 \text{ Nm}$
Angle Bracket 12	60x60 Zn	$F < 2,000 \text{ N} \wedge F \times l < 100 \text{ Nm}$
Angle Bracket 12	120x120 Zn	$F < 4,000 \text{ N} \wedge F \times l < 250 \text{ Nm}$

The load-carrying capacity is to be checked to ensure both conditions are met.

Materials used in all the following products:

Die-cast zinc



Angle Bracket 5 20x20 Zn



a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
20	20	20	10	-	Ø5.3	14.0

white aluminium, similar to RAL 9006, 1 pce.

0.0.425.03

Angle Bracket 5 40x40 Zn



a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
40	40	20	10	20	Ø5.3	39.0

white aluminium, similar to RAL 9006, 1 pce.

0.0.425.06

Angle Bracket 6 30x30 Zn



a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
30	30	30	15	-	Ø6.6	47.0

white aluminium, similar to RAL 9006, 1 pce.

0.0.419.63

Angle Bracket 6 60x60 Zn



a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
60	60	30	15	30	Ø6.6	130.0

white aluminium, similar to RAL 9006, 1 pce.

0.0.419.65

Angle Bracket 8 40x40 Zn



a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
40	40	40	20	-	Ø8.2	119.0

white aluminium, similar to RAL 9006, 1 pce.

0.0.411.24

Angle Bracket 8 80x80 Zn



a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
80	80	40	20	40	Ø8.2	270.0

white aluminium, similar to RAL 9006, 1 pce.

0.0.411.23

Angle Bracket 8 160x80 Zn



a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
80	160	40	20	40	Ø8.2	530.0

white aluminium, similar to RAL 9006, 1 pce.

0.0.436.23

Angle Bracket 12 60x60 Zn



a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
60	60	60	30	-	Ø12.5	350.0

white aluminium, similar to RAL 9006, 1 pce.

0.0.003.20

Angle Bracket 12 120x120 Zn



a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
120	120	60	30	60	Ø12.5	900.0

white aluminium, similar to RAL 9006, 1 pce.

0.0.003.21

Angle Bracket	Item No.
6 30x30	0.0.491.43
6 60x60	0.0.491.43
8 40x40	0.0.494.45
8 80x80	0.0.494.45
8 160x80	0.0.416.11

Angle Brackets should always be used with the appropriate washers.

Washer 10.5x10.5x1.3

St

m = 0.6 g

bright zinc-plated, 1 pce. 0.0.491.43

Washer 13.5x9x1

St

m = 0.6 g

bright zinc-plated, 1 pce. 0.0.416.11

Washer 13.9x13.9x2

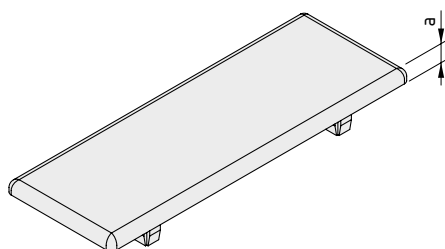
St

m = 1.7 g m = 175 g/100

bright zinc-plated, 1 pce. 0.0.494.45

Materials used in all the following products:

PA-GF



Angle Bracket Cap 5 20x20

a = 2.5 mm m = 1.0 g

black, 1 pce. 0.0.425.04

Angle Bracket Cap 5 40x40

a = 2.5 mm m = 3.0 g

black, 1 pce. 0.0.425.07

Angle Bracket Cap 6 30x30

a = 3.0 mm m = 4.0 g

black, 1 pce. 0.0.419.64

Angle Bracket Cap 6 60x60

a = 3.0 mm m = 7.0 g

black, 1 pce. 0.0.419.66

Angle Bracket Cap 8 40x40

a = 4.0 mm m = 6.0 g

black, 1 pce. 0.0.411.26

grey similar to RAL 7042, 1 pce. 0.0.627.57

Angle Bracket Cap 8 80x80

a = 4.0 mm m = 13.0 g

black, 1 pce. 0.0.411.25

grey similar to RAL 7042, 1 pce. 0.0.627.58

Angle Bracket Cap 8 160x80

a = 4.0 mm m = 23.0 g

black, 1 pce.

0.0.436.25

grey similar to RAL 7042, 1 pce.

0.0.627.59

Angle Bracket Cap 12 60x60

a = 5.4 mm m = 20.0 g

black, 1 pce.

0.0.005.06

Angle Bracket Cap 12 120x120

a = 5.4 mm m = 40.0 g

black, 1 pce.

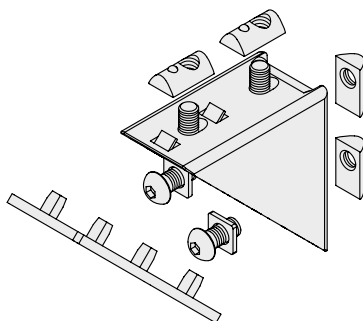
0.0.005.07

The following applies to all the sets below:

Angle Bracket Zn, die-cast zinc, RAL9006

Angle Bracket Cap, PA, black

Fastening elements and washers, St, bright zinc-plated

**Angle Bracket Set 5 20x20**

m = 23.0 g

1 set

0.0.425.02

Angle Bracket Set 5 40x40

m = 58.0 g

1 set

0.0.425.05

Angle Bracket Set 6 30x30

m = 66.0 g

1 set

0.0.419.67

Angle Bracket Set 6 60x60

m = 166.0 g

1 set

0.0.419.68

Angle Bracket Set 8 40x40

m = 163.0 g

1 set

0.0.411.15

Angle Bracket Set 8 80x80

m = 360.0 g

1 set

0.0.411.32

Angle Bracket Set 8 160x80

m = 662.0 g

1 set

0.0.436.24

Angle Bracket Set 12 60x60

m = 520.0 g

1 set

0.0.003.53

Angle Bracket Set 12 120x120

m = 1.2 kg

1 set

0.0.003.54

The following applies to all the sets below:

Angle Bracket Zn, die-cast zinc, RAL9006

Angle Bracket Cap, PA, grey

Fastening elements and washers, St, bright zinc-plated

Angle Bracket Set 10 50x50



m = 335.0 g

1 set

0.0.625.23

Angle Bracket Set 10 100x100



m = 826.0 g

1 set

0.0.625.26



Angle Bracket Set X 8 40x40



m = 150.0 g

1 set

0.0.601.62

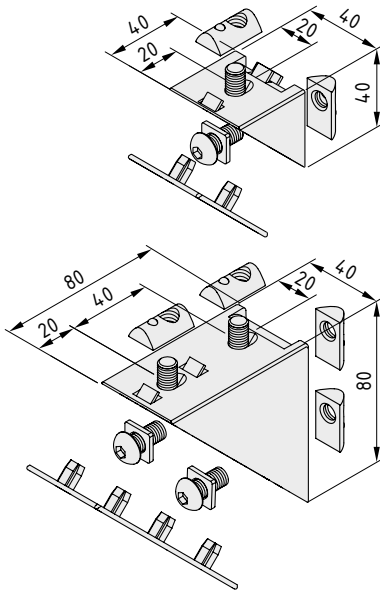
Angle Bracket Set X 8 80x80



m = 360.0 g

1 set

0.0.601.61





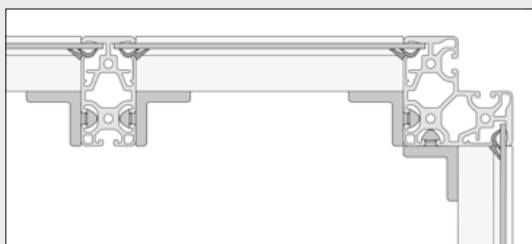
Angle Bracket V Zn

- Simple, torsion-resistant profile connections
- For medium loads
- No machining required

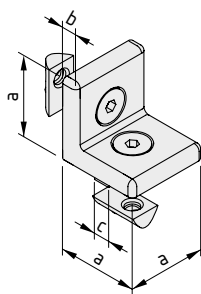


Angle Brackets V Zn are very easy-to-use fastening elements for right-angled profile connections. The profiles do not need to be processed. Angle Brackets V Zn have an anti-torsion feature which locates them in the correct position in the profile groove.

The integral anti-torsion lugs are present on one face only, so that the Brackets can also be used for fastening any other parts to profiles.



The Clamp Profiles light are connected using Angle Bracket V 8 40 Zn.



The following applies to all the sets below:

Angle Bracket, die-cast zinc, RAL 9006 white aluminium

2 T-Slot Nuts, St, bright zinc-plated

2 Countersunk Screws DIN 7991, St, bright zinc-plated

Angle Bracket V 5 20 Zn



a [mm]	b [mm]	c [mm]	m [g]
20	3	5	18.0
1 set			0.0.612.79

Angle Bracket V 6 30 Zn



a [mm]	b [mm]	c [mm]	m [g]
30	6	6	68.5
1 set			0.0.612.78

Angle Bracket V 8 40 Zn



a [mm]	b [mm]	c [mm]	m [g]
40	8	8	167.0
1 set			0.0.486.28



Angle Bracket Al and St

Maximum load-carrying capacity for large profile cross-sections

- Heavy-duty fastening elements for profiles
- For fastening heavy-duty components
- Power-lock connection with no profile machining

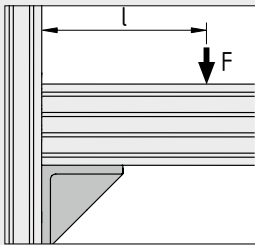


These Angle Brackets are heavy-duty fastening elements that produce power-lock, non-machined connections between large profiles. They can also be used as screw connections between profiles and floors or walls and for fastening heavy parts that are not part of the MB Building Kit System.

The Angle Brackets can be screwed to the profile with up to four Fastening Sets, according to requirements. They support the load-bearing component above them without the need for further machining.

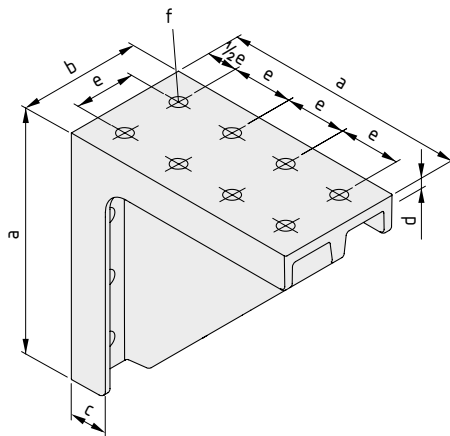


The substantial web gives the Angle Bracket its high load-carrying capacity but the screws are still readily accessible, thereby ensuring easy installation.



Angle Bracket 8 160x160-40 Al	$F < 4,000 \text{ N} \wedge F \times l < 400 \text{ Nm}$
Angle Bracket 8 160x160 Al	$F < 8,000 \text{ N} \wedge F \times l < 800 \text{ Nm}$
Angle Bracket 8 160x160 St	$F < 8,000 \text{ N} \wedge F \times l < 1,200 \text{ Nm}$
Angle Bracket 10 200x200-50 Al	$F < 5,000 \text{ N} \wedge F \times l < 500 \text{ Nm}$
Angle Bracket 12 240x240 Al	$F < 16,000 \text{ N} \wedge F \times l < 4,200 \text{ Nm}$

The load-carrying capacity is to be checked to ensure both conditions are met.



Angle Bracket 8 160x160 Al M8



Die-cast aluminium

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [kg]
160	80	24	7.5	40	Ø9	1.1
white aluminium, similar to RAL 9006, 1 pce.						0.0.602.36

Angle Bracket 8 160x160 St M8



High-strength cast iron

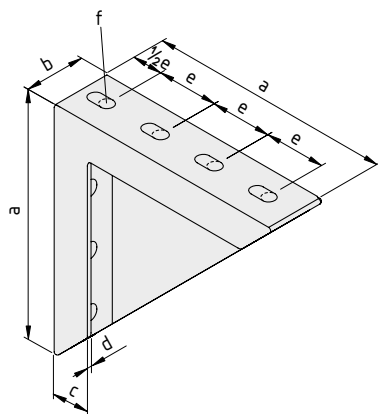
a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [kg]
160	80	24	7	40	Ø9	2.4
white aluminium, similar to RAL 9006, 1 pce.						0.0.475.21

Angle Bracket 12 240x240 Al M12



Die-cast aluminium

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [kg]
240	120	26	9.5	60	Ø13.5	2.7
white aluminium, similar to RAL 9006, 1 pce.						0.0.007.79

**Angle Bracket 8 160x160-40 Al M8**

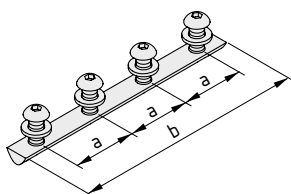
Die-cast aluminium

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
160	40	24	7.5	40	Ø9	480.0
white aluminium, similar to RAL 9006, 1 pce.						0.0.619.56

Angle Bracket 10 200x200-50 Al M10

Die-cast aluminium

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
200	50	30	10	50	Ø11	899.0
white aluminium, similar to RAL 9006, 1 pce.						0.0.624.78

**Fastening Set for Angle Bracket 8 160x160 M8**

Profile Bar 8 St M8, bright zinc-plated

4 Button-Head Screws ISO 7380-M8x20, St, bright zinc-plated

4 washers DIN 1441-9.0, St, bright zinc-plated

a [mm]	b [mm]	M [Nm]	m [g]
40	150	25	132.0
1 set			0.0.479.96

Fastening Set for Angle Bracket 10 200x200 M10

Profile Bar 10 St M10, bright zinc-plated

4 Button-Head Screws ISO 7380-M10x25, St, bright zinc-plated

4 washers DIN 125-10.5, St, bright zinc-plated

a [mm]	b [mm]	M [Nm]	m [g]
50	190	46	112.0
1 set			0.0.632.41

Fastening Set for Angle Bracket 12 240x240 M12

Profile Bar 12 St M12-60, bright zinc-plated

4 Button-Head Screws ISO 7380-M12x30, St, bright zinc-plated

4 washers DIN 1441-13.0, St, bright zinc-plated

a [mm]	b [mm]	M [Nm]	m [g]
60	230	80	400.0
1 set			0.0.609.16

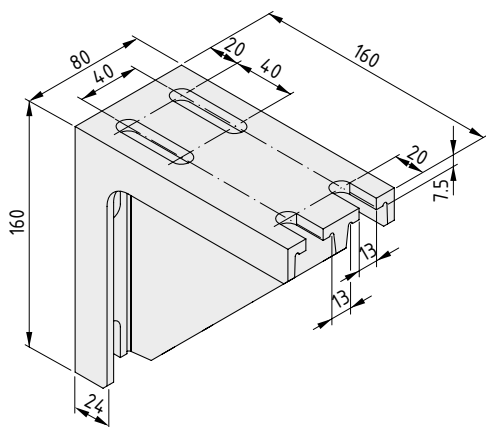


Angle Bracket 8 160x160 St M12 is used for screw attachment with Fasteners 8 M12. A particularly heavy-duty connection is possible for the profiles by using an M12 bolt with Profile 8 grooves. Alternatively, Angle Bracket 8 St M12 can also be screw attached using bolts and T-Slot Nuts 8 St M8.



Two-part Fastener for heavy-duty securing of parts to the Profile 8 groove. The two halves of the Fastener are fitted into the groove at any point where they are then slid together. The integrated spring ball holds the Fastener in place and facilitates screw attachment.

The tightening torque for the nut of Fastener 8 M12 is $M = 80 \text{ Nm}$.

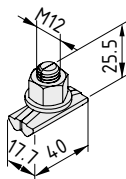


Angle Bracket 8 160x160 St M12

High-strength cast iron
 $m = 2.2 \text{ kg}$

white aluminium, similar to RAL 9006, 1 pce.

0.0.475.20



Fastener 8 M12

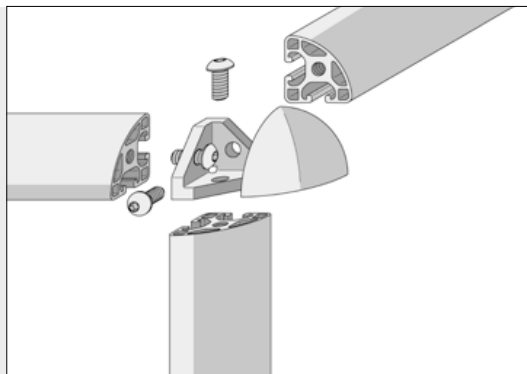
Fastener half, cast steel, stainless
Fastener half with spring ball, cast steel, stainless
Nut DIN 934-M12, St, bright zinc-plated
Washer DIN 125-12, St, bright zinc-plated
 $M = 80 \text{ Nm}$ $m = 70.0 \text{ g}$

1 set

0.0.473.02

Corner Fastening Sets

- Connect three profiles to form one corner unit
- Stylish covers in two colours



Fastening Sets can be used to construct a corner unit with three profiles or one corner angle with two profiles, ensuring a continuous profile geometry.

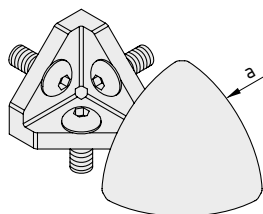
Fastening Sets are ideal for constructing attractive display cases, tables, cover hoods etc.
The profiles must be provided with threads in the core bores.

The following applies to all the sets below:

Fastener, die-cast zinc, black

Fastener Cap

3 Button-Head Screws ISO 7380



Fastening Set 5 R20-90°



a = R20 m = 21.0 g

black, 1 set

0.0.425.97

grey similar to RAL 7042, 1 set

0.0.642.11

Fastening Set 6 R30-90°



a = R30 m = 54.0 g

black, 1 set

0.0.434.87

grey similar to RAL 7042, 1 set

0.0.642.13

Fastening Set 8 R40-90°



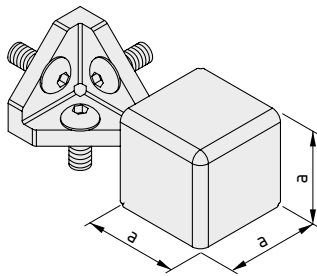
a = R40 m = 120.0 g

black, 1 set

0.0.436.35

grey similar to RAL 7042, 1 set

0.0.640.33


Fastening Set 5 20x20x20


a = 20 mm m = 22.0 g

black, 1 set

0.0.437.96

grey similar to RAL 7042, 1 set

0.0.642.12

Fastening Set 6 30x30x30


a = 30 mm m = 59.0 g

black, 1 set

0.0.434.88

grey similar to RAL 7042, 1 set

0.0.642.15

Fastening Set 8 40x40x40

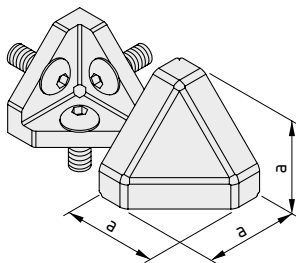

a = 40 mm m = 133.0 g

black, 1 set

0.0.416.08

grey similar to RAL 7042, 1 set

0.0.640.32


Fastening Set 6 30x30-45°


a = 30 mm m = 54.0 g

black, 1 set

0.0.434.86

grey similar to RAL 7042, 1 set

0.0.642.14

Fastening Set 8 40x40-45°

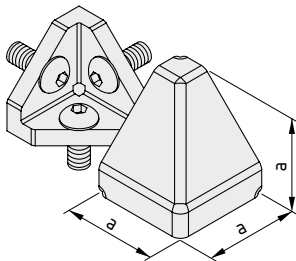

a = 40 mm m = 127.0 g

black, 1 set

0.0.388.68

grey similar to RAL 7042, 1 set

0.0.640.34


Fastening Set 8 40x40-2x45°

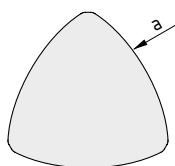

a = 40 mm m = 128.0 g

black, 1 set

0.0.436.63

Materials used in all the following products:

PA-GF

**Fastener Cap 5 R20-90°**

a = R20 m = 0.7 g

black, 1 pce. 0.0.425.94

grey similar to RAL 7042, 1 pce. 0.0.641.48

Fastener Cap 6 R30-90°

a = R30 m = 3.0 g

black, 1 pce. 0.0.434.83

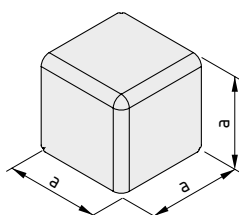
grey similar to RAL 7042, 1 pce. 0.0.636.17

Fastener Cap 8 R40-90°

a = R40 m = 8.0 g

black, 1 pce. 0.0.436.32

grey similar to RAL 7042, 1 pce. 0.0.627.60

**Fastener Cap 5 20x20x20**

a = 20 mm m = 1.0 g

black, 1 pce. 0.0.437.73

grey similar to RAL 7042, 1 pce. 0.0.641.46

Fastener Cap 6 30x30x30

a = 30 mm m = 8.0 g

black, 1 pce. 0.0.434.84

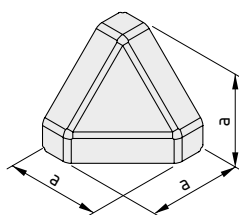
grey similar to RAL 7042, 1 pce. 0.0.636.19

Fastener Cap 8 40x40x40

a = 40 mm m = 16.0 g

black, 1 pce. 0.0.415.97

grey similar to RAL 7042, 1 pce. 0.0.628.69

**Fastener Cap 6 30x30-45°**

a = 30 mm m = 3.0 g

black, 1 pce. 0.0.434.85

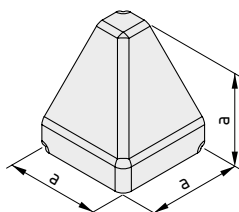
grey similar to RAL 7042, 1 pce. 0.0.636.18

Fastener Cap 8 40x40-45°

a = 40 mm m = 9.0 g

black, 1 pce. 0.0.373.52

grey similar to RAL 7042, 1 pce. 0.0.628.68

**Fastener Cap 8 40x40-2x45°**

a = 40 mm m = 10.0 g

black, 1 pce. 0.0.436.62



Radius Seals

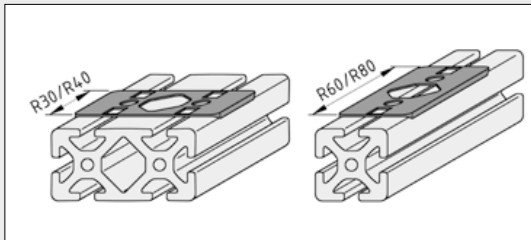
- Sealing for the end face of a profile
- Protection against dirt and dust
- Ideal for cleanroom applications



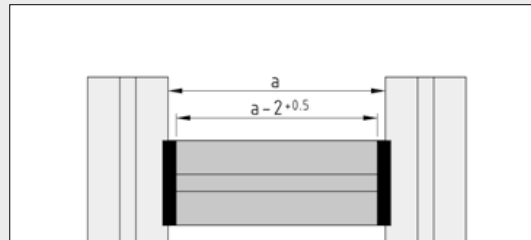
The plastic Radius Seals ensure a continuous transition for the external contour of 90° profile connections. The gap between the straight end-face saw cut of the profile and the profile edge radius is filled by the seal. The Radius Seals can be used in combination with all fastening elements in the MB Building Kit System.

Note:

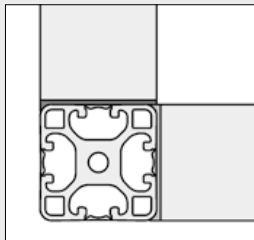
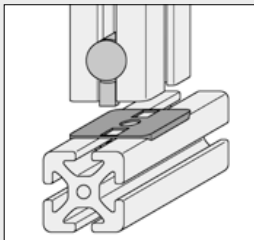
When using the Radius Seal with Standard, Universal and Automatic Fasteners the power-lock connection is achieved by an intermediate plastic element. It is advisable to double the safety factor at the design stage.



The designations R30, R40, R60 and R80 refer to the length of the side of the seal facing the profile radius.



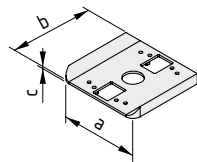
In calculating the length of the cross profiles between two profiles, the thickness of the Radius Seals on each side must be taken into account.



Where a radius seal is already fitted to a perpendicular connection, a Radius Seal 1R should be used.

Materials used in all the following products:

PA



Radius Seal 6 30x30

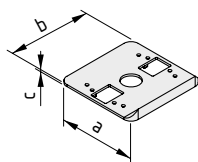


a [mm]	b [mm]	c [mm]	m [g]
30	30	1	1.1
grey similar to RAL 7042, 1 pce.			0.0.478.73

Radius Seal 8 40x40



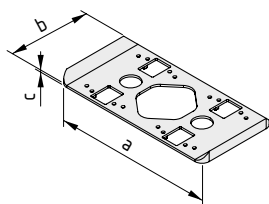
a [mm]	b [mm]	c [mm]	m [g]
40	40	1	2.0
grey similar to RAL 7042, 1 pce.			0.0.480.01

**Radius Seal 6 30x30 1R**

a [mm]	b [mm]	c [mm]	m [g]
30	30	1	1.0

grey similar to RAL 7042, 1 pce.

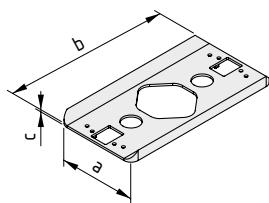
0.0.491.37

**Radius Seal 8 40x40 1R**

a [mm]	b [mm]	c [mm]	m [g]
40	40	1	2.0

grey similar to RAL 7042, 1 pce.

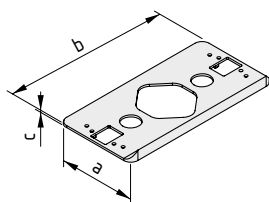
0.0.494.46

**Radius Seal 6 60x30 R30**

a [mm]	b [mm]	c [mm]	m [g]
60	30	1	1.7

grey similar to RAL 7042, 1 pce.

0.0.478.75

**Radius Seal 8 80x40 R40**

a [mm]	b [mm]	c [mm]	m [g]
80	40	1	4.0

grey similar to RAL 7042, 1 pce.

0.0.480.03

**Radius Seal 6 60x30 R60**

a [mm]	b [mm]	c [mm]	m [g]
30	60	1	2.1

grey similar to RAL 7042, 1 pce.

0.0.478.74

Radius Seal 8 80x40 R80

a [mm]	b [mm]	c [mm]	m [g]
40	80	1	4.0

grey similar to RAL 7042, 1 pce.

0.0.480.02

Radius Seal 6 60x30 1R60

a [mm]	b [mm]	c [mm]	m [g]
30	60	1	2.0

grey similar to RAL 7042, 1 pce.

0.0.491.40

Radius Seal 8 80x40 1R80

a [mm]	b [mm]	c [mm]	m [g]
40	80	1	4.0

grey similar to RAL 7042, 1 pce.

0.0.494.49



Adapter 8 D40

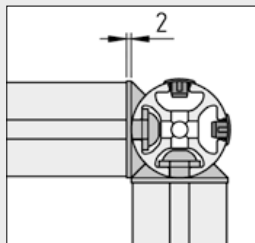
- Connect together cylindrical Profiles 8 D40
- Combine rectangular Profiles 8 with Profiles 8 D40



Profiles 8 D40 can be connected with other Profiles 8 D40 or with Profiles 8 40x40 or 80x40 using Line 8 fastening elements. In contrast to connecting two profiles with rectangular cross-sections, suitable adapters must be used for Profiles 8 D40.

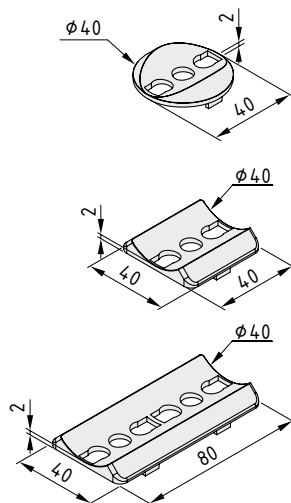
Standard-Fastening Set 8 and the Automatic-Fastening Set 8 N D40 are well suited for right-angled profile connections. When calculating the cut-off length of the profiles, the 2 mm wall thickness of Adapters 8 D40 must be taken into account.

Universal-Fastening Set 8 can also be used when connecting the rectangular end face of a Profile 8 to a Profile 8 D40. It is important to ensure that, due to the wall thickness of the adapter, the distance from the centre of the 20 mm dia. mounting bores of the Universal Fastener to the end of the profile must not exceed 18 mm. In addition, the anti-torsion feature of Universal Fastener 8 must be removed.



The gap that would result when connecting the rounded outer surface of Profiles 8 D40 and the straight profile end faces (or any other flat components) is closed off completely by Adapter 8 D40. A smooth transition is made from the outer contour of the profile to the connecting face of the second profile.

Adapters 8 D40 also serve as radial seals. In completely covering the end face of the profile, they seal the openings of the profile cross-section.



Adapter 8 D40/D40



Die-cast zinc
m = 28.0 g

white aluminium, similar to RAL 9006, 1 pce.

0.0.489.88

Adapter 8 40x40/D40



Die-cast zinc
m = 42.0 g

white aluminium, similar to RAL 9006, 1 pce.

0.0.489.86

Adapter 8 80x40/D40



Die-cast zinc
m = 84.0 g

white aluminium, similar to RAL 9006, 1 pce.

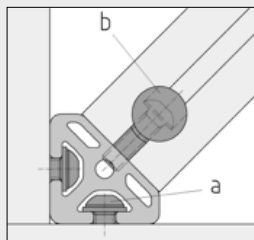
0.0.489.87

Angle Elements T1

- Latticework reinforcement for profile constructions
- Profile connection at a 45° angle



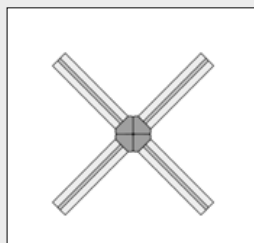
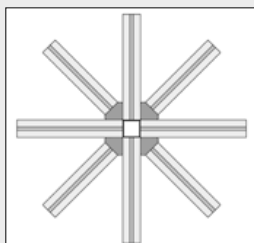
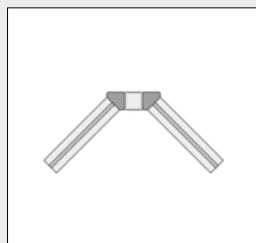
Angle Elements T1 create 45° angle connections either between two profiles or between themselves. They are fastened using Button-Head Screws ISO 7380 and DIN 125 washers. The profile to be connected via its end face can be screwed into place using two Universal Fasteners (anti-torsion feature removed) and Button-Head Screws ISO 7380.



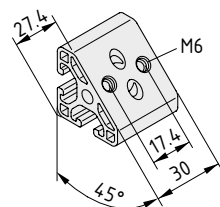
- a Button Head Screws ISO 7380-M6x12
Washers DIN 125-6.4
- b Universal Fasteners 6
Button Head Screws ISO 7380-M6x20



- a Button Head Screws ISO 7380-M8x16
Washers DIN 125-8.4
- b Universal Fasteners 8
Button Head Screws ISO 7380-M8x25



The ends of the Angle Elements can be covered with Caps 6 30x30-45° or 8 40x40-45°.



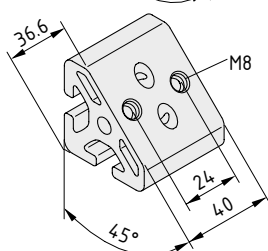
Angle Element 6 T1-30



Al, anodized
m = 23.0 g

natural, 1 pce.

0.0.459.70



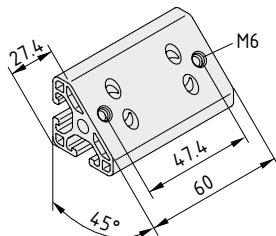
Angle Element 8 T1-40



Al, anodized
m = 73.0 g

natural, 1 pce.

0.0.388.00



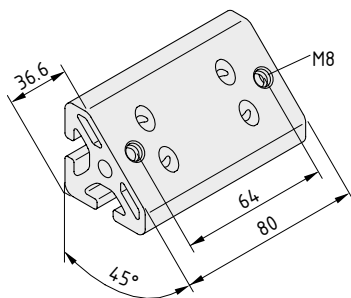
Angle Element 6 T1-60



Al, anodized
m = 40.0 g

natural, 1 pce.

0.0.459.74



Angle Element 8 T1-80



Al, anodized
m = 148.0 g

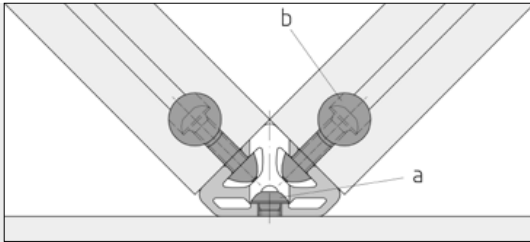
natural, 1 pce.

0.0.388.01



Angle Elements T2

- Connect two profiles at a 45° angle
- Latticework design produces greater stability



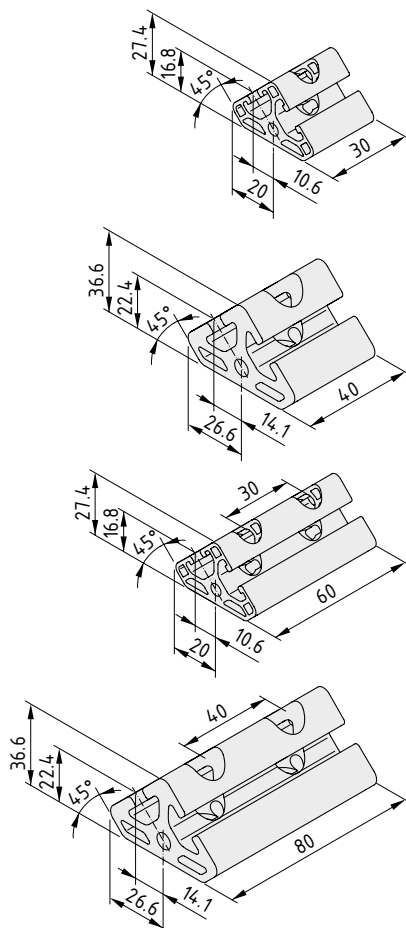
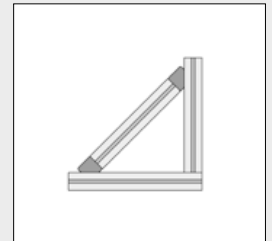
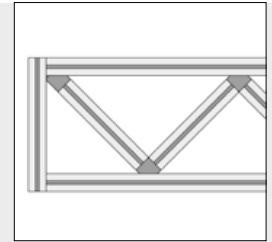
Angle Elements T2 are fastened with Button-Head Screws, Universal Fasteners or Automatic Fasteners and a special T-Slot Nut (see table).



The ends of the Angle Elements can be covered with Caps 6 30x30-45° or 8 40x40-45°.

- | | |
|--|--|
| | a Button-Head Screws ISO 7380-M6x16 |
| | Universal Fastener 6 |
| | b Button-Head Screws ISO 7380-M6x22 |
| | T-Slot Nut 6 St 2xM6-28 or 6 St 2x M6-58 |
| | Automatic Fastener 6; Hexagon Socket Head Cap Screws DIN 912-M5x35 |
| | T-Slot Nut 6 St 2xM5-28 or 6 St 2x M5-58 |

- | | |
|--|--|
| | a Button-Head Screws ISO 7380-M8x16 |
| | Universal Fastener 8 |
| | b Button-Head Screws ISO 7380-M8x30 |
| | T-Slot Nut 8 St 2xM8-36 or 8 St 2x M8-76 |
| | Automatic Fastener 8; Hexagon Socket Head Cap Screws DIN 912-M6x40 |
| | T-Slot Nut 8 St 2xM6-36 or 8 St 2x M6-76 |



Angle Element 6 T2-30

Al, anodized
m = 23.0 g
natural, 1 pce.

0.0.459.72

Angle Element 8 T2-40

Al, anodized
m = 67.0 g
natural, 1 pce.

0.0.388.02

Angle Element 6 T2-60

Al, anodized
m = 44.0 g
natural, 1 pce.

0.0.459.76

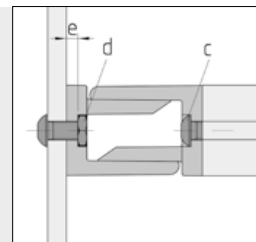
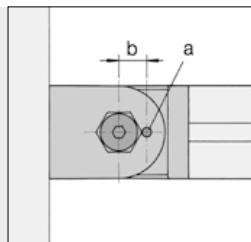
Angle Element 8 T2-80

Al, anodized
m = 135.0 g
natural, 1 pce.

0.0.388.03

Hinges, heavy-duty

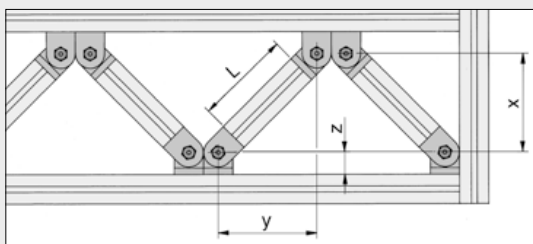
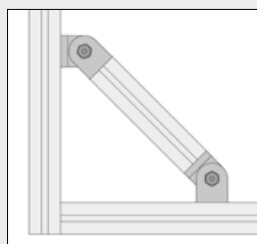
- Stable connection at any angle of adjustment from 0° to 180°
- Clamp lever enables rapid adjustment
- Fixing also possible using a dowel pin
- Products from Line X also available



The Hinges with Clamp Lever can be locked in position or released. Particularly suitable for adjustable holders, swivel-type arms for Parts Containers and other similar equipment.

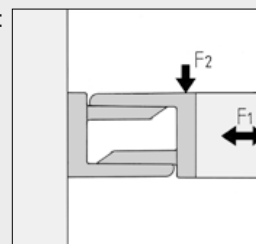
Specially designed Hinges X 8 with or without a clamp lever are available for profile constructions built with Line X.

A Hinge heavy-duty can be fixed at any angle by pinning (a).



Calculation of the strut length L:

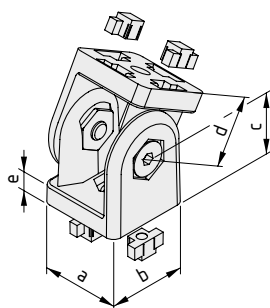
$$L = \sqrt{x^2 + y^2} - 2z$$



Hinge, heavy-duty	Dowel DIN 6325		Screw	Nut	Connection				
	a	b			e	rigid		movable	
			c	d		F1	F2	F1	F2
5 20x20	2m6x20	7 mm	Hex. Socket Head Cap Screw DIN 912-M5	DIN 557 M5	3.3 mm	500 N	200 N	200 N	100 N
6 30x30	4m6x30	10 mm	Button-Head Screw ISO 7380-M6x14	DIN 439 M6	3.5 mm	1,750 N	500 N	500 N	500 N
8 40x40	4m6x40	12 mm	Button-Head Screw ISO 7380-M8x16	DIN 439 M8	5.0 mm	5,000 N	1,000 N	750 N	750 N
8 80x40	6m6x40	24 mm	Button-Head Screw ISO 7380-M8x16	DIN 439 M8	5.0 mm	10,000 N	2,000 N	1,500 N	1,500 N

The following applies to all the sets below:

- 2 hinge halves, die-cast zinc, white aluminium
- 4 anti-torsion lugs
- 2 thread bushes
- 2 spacer rings
- 2 Countersunk Screws DIN 7991



Hinge 5 20x20, heavy-duty



a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	m [g]
20	20	15	15	5	39.0
1 pce.					0.0.464.39

Hinge 6 30x30, heavy-duty


a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	m [g]
30	30	22.5	22.5	7	125.0
1 pce.					0.0.419.80

Hinge 8 40x40, heavy-duty


a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	m [g]
40	40	30	30	9	320.0
1 pce.					0.0.265.31

Hinge 8 80x40, heavy-duty

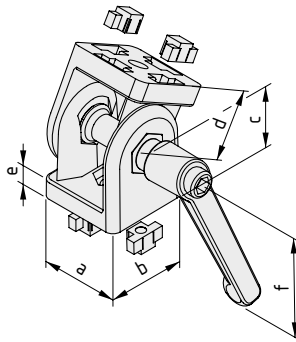

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	m [kg]
40	80	50	50	9	1.0
1 pce.					0.0.373.91


8
Hinge X 8 40x40, heavy-duty


a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	m [g]
40	40	30	30	9	310.0
1 pce.					0.0.601.12

The following applies to all the sets below:

2 hinge halves, die-cast zinc, white aluminium
4 anti-torsion lugs
Thread bush
Bush liner
Spacer collar
Clamp lever


Hinge 5 20x20, heavy-duty with Clamp Lever


Max. holding torque = 5 Nm

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
20	20	15	15	5	45	81.0
1 pce.						0.0.464.43

Hinge 6 30x30, heavy-duty with Clamp Lever


Max. holding torque = 10 Nm

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
30	30	22.5	22.5	7	45	163.0
1 pce.						0.0.419.85

Hinge 8 40x40, heavy-duty with Clamp Lever


Max. holding torque = 20 Nm

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
40	40	30	30	9	63	410.0
1 pce.						0.0.373.93


8
Hinge X 8 40x40, heavy-duty with Clamp Lever

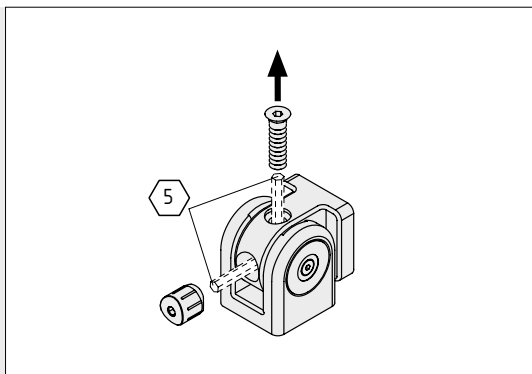

Max. holding torque = 20 Nm

a [mm]	b [mm]	c [mm]	d [mm]	e [mm]	f [mm]	m [g]
40	40	30	30	9	63	390.0
1 pce.						0.0.601.13

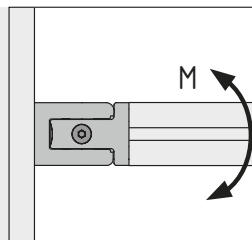
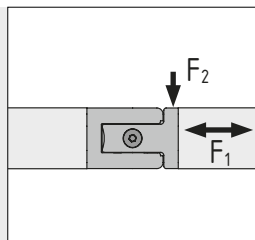


Ball-Bearing Hinge 8 40x40

- Enables movement through up to 180°
- Two ball bearings provide excellent load-carrying capacity
- Wear-resistant and robust



The Ball-Bearing Hinge can be screwed to any components using the integrated M8x16 fastening screws. These screws are driven through the holes in the bearing block using a 5 A/F hexagon key. To access the screws, simply remove the retaining screw from the bearing block. The Ball-Bearing Hinge does not need to be disassembled.

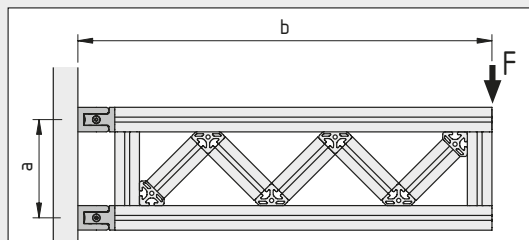


Permissible load:

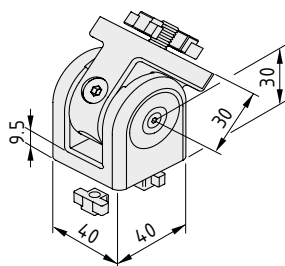
$$\begin{aligned} F_{1\max} &= 2500 \text{ N} \\ F_{2\max} &= 750 \text{ N} \\ M_{\max} &= 45 \text{ Nm} \end{aligned}$$

Where there is a combination of radial (F_1) and axial (F_2) load, the total load must satisfy the following equation:

$$\frac{F_1}{F_{1\max}} + \frac{F_2}{F_{2\max}} \leq 1$$



$$\begin{aligned} F_{\max} &\leq F_{1\max} \frac{a}{b} \\ F_{\max} &\leq F_{2\max} / 2 \end{aligned}$$



Ball-Bearing Hinge 8 40x40



Ball-Bearing Hinge fork, die-cast zinc, RAL 9006 white aluminium
 Ball-Bearing Hinge bearing block, die-cast zinc, RAL 9006 white aluminium
 4 anti-torsion lugs, die-cast zinc
 2 fastening screws M8x16, St, bright zinc-plated
 Cap, PA-GF, grey
 Retaining screw M8, St, bright zinc-plated
 m = 510.0 g

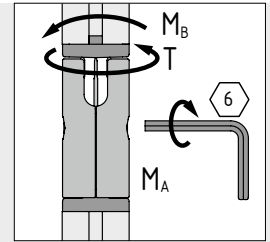
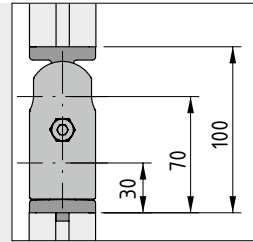
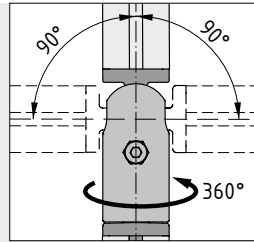
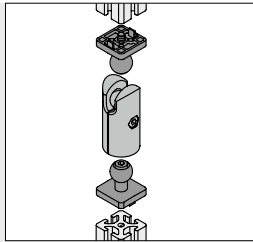
1 pce.

0.0.494.11



Ball Joint 8

- Two-dimensional pivoting
- Available with clamp lever for rapid adjustment

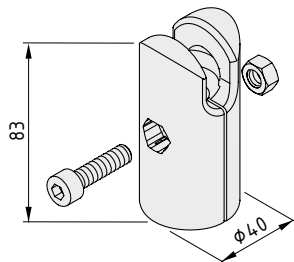


Each Ball Joint 8 requires two balls that are suitable for the profiles being connected:

- Ball 40x40 for connection to Profiles 8 with right-angled cross-sections
- Ball D40 for connection to Profiles 8 D40 (with cylindrical cross-section)

Max. tightening torque of central securing screw M8:
 $M_A = 25 \text{ Nm}$

Permissible loading moments for Ball Joint 8:
Deflection $M_B = 2 \text{ Nm}$
Torsion $T = 3 \text{ Nm}$



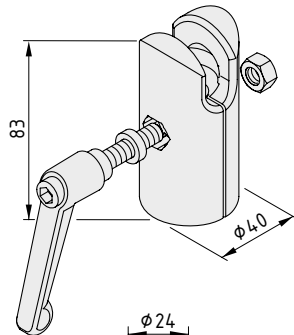
Ball Joint 8, Socket



2 hinge halves, die-cast aluminium, RAL 9006 white aluminium
Hexagon Socket Head Cap Screw M8x30, St, bright zinc-plated
Hexagon Nut M8, St, bright zinc-plated
 $m = 200.0 \text{ g}$

1 set

0.0.608.69



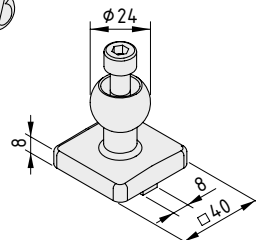
Ball Joint 8, Socket with Clamp Lever



2 hinge halves, die-cast aluminium, RAL 9006 white aluminium
Clamp Lever M8x32
Spacer sleeve, St, bright zinc-plated
Hexagon Nut M8, St, bright zinc-plated
 $m = 272.0 \text{ g}$

1 set

0.0.611.00



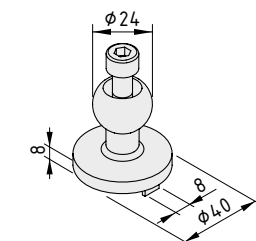
Ball Joint 8, Ball End 40x40



Ball, die-cast aluminium, RAL 9006 white aluminium
Hexagon Socket Head Cap Screw M8x40, St, bright zinc-plated
 $m = 55.0 \text{ g}$

1 set

0.0.610.95



Ball Joint 8, Ball End D40



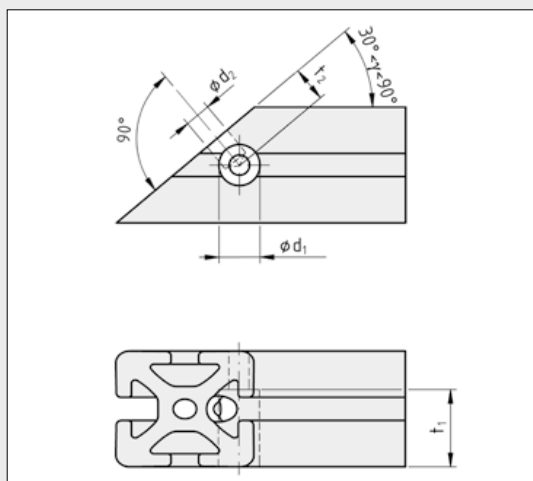
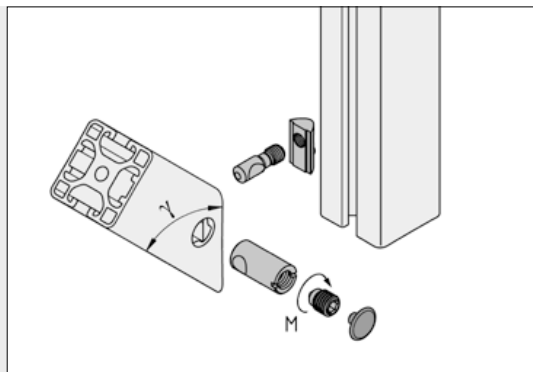
Ball, die-cast aluminium, RAL 9006 white aluminium
Hexagon Socket Head Cap Screw M8x40, St, bright zinc-plated
 $m = 51.0 \text{ g}$

1 set

0.0.610.98

Mitre-Fastening Sets

- Profile connection at any angle from 30° to 90°
- The profile groove stays free to accommodate panel elements



Drilling Jig and Step Drill, Mitre Connection 580

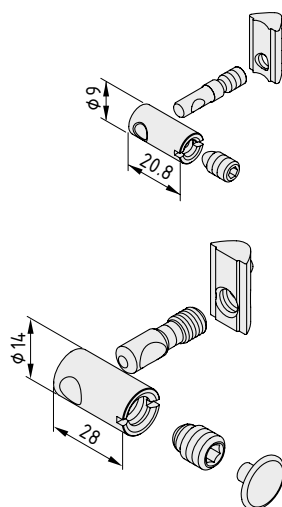
Using the Mitre-Fastening Set:

1. Mitre-cut profile at angle γ .
2. Drill a counterbore ($\varnothing d_1$) for the fastener sleeve into the side of the mitre-cut profile.
3. Drill a hole ($\varnothing d_2$) into the mitred face of the profile
4. Insert the T-Slot Nut into the profile groove of the continuous profile and screw in the clamping pin until the mark around the perimeter is level with the profile surface.
5. Insert the fastener sleeve into the counterbore of the mitred profile and fit the assembly over the clamping pin.
6. Drive the grub screw into the fastener sleeve and clamp the profile connection.
7. Fit the cap onto the fastener sleeve (Line 8).

Note: Despite the optimised design, the flow of forces across the inclined contact faces of the profiles is such that only part of the pretension of the screw connection is utilized. Mitre connections therefore have a lower load bearing capacity than other, right-angled profile connections (Standard-Fastening, Universal-Fastening or Automatic-Fastening Set). Mitre-Fastening Sets should therefore not be used for constructing basic frames and safety-related parts that are subject to high loads.

	d_1	t_1	d_2	t_2	M [Nm]
	$\varnothing 9.1$	21	$\varnothing 5.5$	10	3.5
Drill	0.0.628.25		-		
Drilling Jig	0.0.616.77		0.0.616.89		
	$\varnothing 14.2$	26.7	$\varnothing 9$	12	15
Drill	0.0.492.60		-		
Drilling Jig	0.0.493.72		0.0.493.71		

Your item dealer can provide the required mitre cuts and profile processing as a service.



Mitre-Fastening Set 6

Clamping pin M5x23, St, bright zinc-plated
Sleeve with bore, St, bright zinc-plated
Grub screw M6, St, bright zinc-plated
T-Slot Nut 6 St M5, bright zinc-plated
m = 17.0 g

1 set 0.0.627.12

Mitre-Fastening Set 8

Clamping pin M8x28.5, St, bright zinc-plated
Sleeve with bore, St, bright zinc-plated
Grub screw M10, St, bright zinc-plated
T-Slot Nut V 8 St M8, bright zinc-plated
Cap, PA grey
m = 40.0 g

1 set 0.0.492.30



Direct-Fastening Set 8

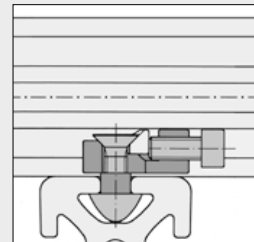
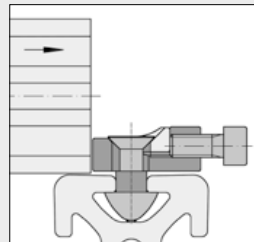
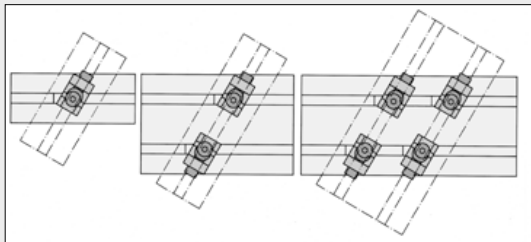
- Power-lock connection for profiles that cross
- Profile sides abut against each other



Power-lock connection (without machining) of two Profiles 8 that touch along their outer faces. The profiles can also run in parallel over a certain distance. Both profiles can be moved in the direction of the groove.

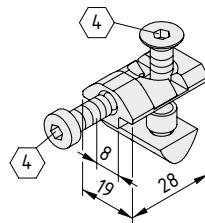
The Direct-Fastening Set is particularly suitable for connecting the profiles of ball-bush block guides with other profiles, so that the profiles can be moved and no machining is required.

Note: Where anodized surfaces are to be fitted together, we recommend greasing the contact points. This minimises the level of noise generated.



Installation note:
Loosen the Hexagon Socket Head Cap Screw to free up the maximum adjustment range of the small wedge, then tighten the Countersunk Screw so that the profiles can only just be moved by hand.

After positioning both profiles, tension the Direct-Fastening Set by tightening the Hex. Socket Head Cap Screw.



Direct-Fastening Set 8

Fastener, cast steel
Countersunk Screw DIN 7991-M6x20, St
Hexagon Socket Head Cap Screw DIN 7984-M6x14, St
Spacer sleeve, POM, black
T-Slot Nut 8 St M6

$M_{\text{bright zinc-plated}} = 5.5 \text{ Nm}$ $m = 37.0 \text{ g}$

bright zinc-plated, 1 set

0.0.388.63

Direct-Fastening Set 8

$M_{\text{stainless}} = 4.5 \text{ Nm}$ $m = 37.0 \text{ g}$

stainless, 1 set

0.0.440.65



Click-Fastening Set 8

Adjustable and fast

- For profiles that cross, can be fitted at any position
- For assembling struts without the need for machining
- Particularly quick to fit
- Ideal for temporary structures



The item MB Building Kit System opens up a whole new dimension in flexibility. Profiles can be connected to other profiles at any position and at virtually any angle without machining.

Profile sections are attached to existing constructions and are employed as re-usable, variable struts. Thanks to the Click-Fastening Set, profiles no longer need to be cut off with absolute accuracy!

The Click-Fastening Set is particularly attractive for temporary structures - modifications can be made quickly and easily!



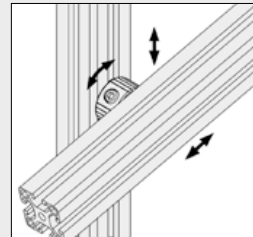
Mount the CLICK-Fastening Set onto the profile groove and lock in position (CLICK!).



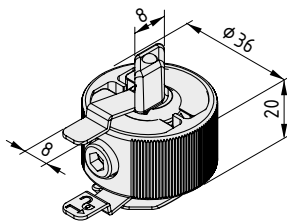
Connect the CLICK-Fastening Set with the second profile.



Align the CLICK-Fastening Set and tighten the tensioning screw.



Dismantling: Loosen the tensioning screw, lift the locking strip out of the profile groove and swivel it back. The CLICK-Fastening Set does not need to be taken apart and is immediately ready for use again.



Click-Fastening Set 8



Clamping profile Al, natural
Clamping elements, St, stainless
Locking strips, St, stainless
Hex. Socket Head Cap Screw M6x25, St, bright zinc-plated
m = 105.0 g

1 set

0.0.489.79



Face Fastening Set 8

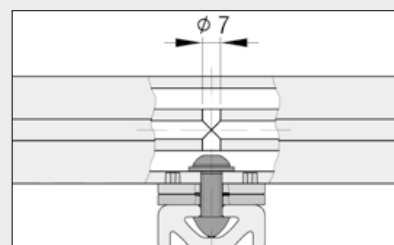
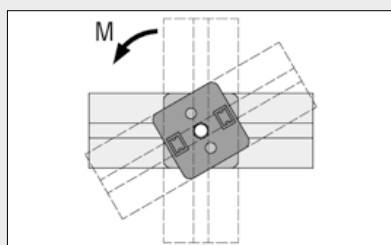
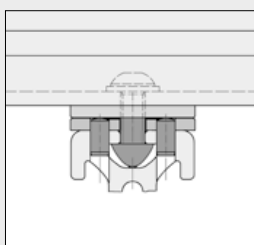
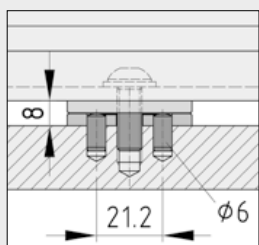
- Toothed fastener reinforces the rigid angled connection
- For inclined working surfaces
- Adjustment in 5° increments with anti-torsion feature



Face Fastening Set 8 is used to create a rigid angled connection between two profiles whose grooved sides face each other. It can also be used to connect the end face of one profile to the grooved side of another profile.

The two halves of the Face Fastening Set are located between the profiles being connected.

A clamp lever extending all the way through may be used with Face Fastening Set 8 to facilitate adjustment.



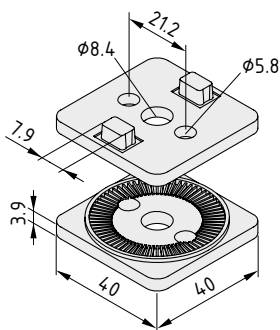
The anti-torsion blocks must be removed when attaching to panel elements.

Position of the fixing bores in the panel elements and profiles. These fixing bores are predrilled in the fastener (Ø 5.8 mm).

The angle between the profiles can be selected in 5° increments. The tothing ensures that the two halves fit together securely at the correct angle.

The two halves must be pinned together if a moment of $M > 10 \text{ Nm}$ is applied to the Face Fastening Set. The permissible load is $M_{\text{max}} = 20 \text{ Nm}$.

Two Line 8 Profiles are screw-connected using screw ISO 7380-M8x25, Washer DIN 125-8,4 and T-Slot Nut 8 St M8. An access hole must be made in one of the profiles to accommodate the Allen key.



Face Fastening Set 8

Die-cast zinc
m = 71.0 g

black, 1 set

0.0.474.44



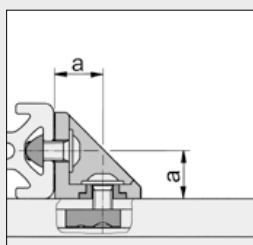
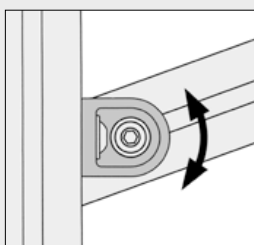


Angle Hinge Brackets, Angle Clamp Brackets

- Simple, secure fixing for profiles that cross
- Adjustable via angle bracket with clamp lever
- For creating any angle

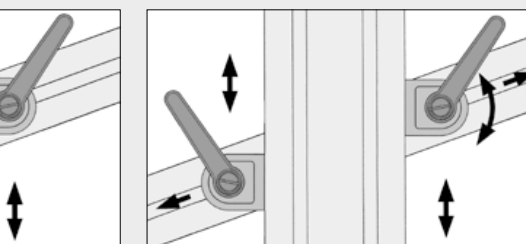
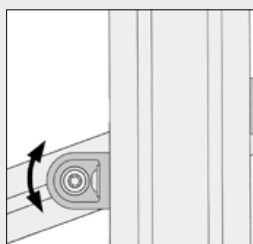
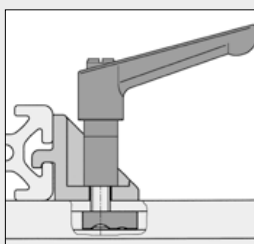
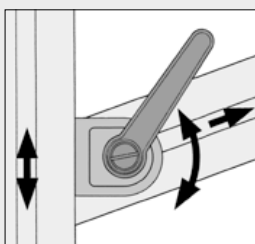


The Angle Hinge Brackets and Angle Clamp Brackets are used for connecting two profiles of the same Line whose side faces are in contact and which cross at an angle.



Angle Hinge Bracket	5	6	8
a	10 mm	15 mm	20 mm

The Angle Hinge Bracket serves as a fixed point of rotation for profiles crossing each other. When the screws are tight, the rotational position around the bearing bush can still be selected at will.

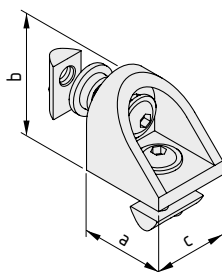


The Angle Clamp Bracket can be used in combination with an Angle Hinge Bracket or a second Angle Clamp Bracket to provide a simple connection between two crossing profiles.

Loosening the screw or clamp lever releases the tension in the two profile grooves and allows rotation at any angle and movement along the grooves.

Combination of Angle Hinge Bracket and Angle Clamp Bracket, e.g. for adjusting the angle of a shelf around a fixed point of rotation.

Combination of two Angle Clamp Brackets, e.g. for adjusting a rest (in terms of height, lateral location and angle).



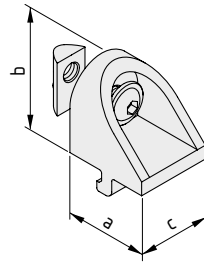
The following applies to all the sets below:

Angle bracket, die-cast zinc, RAL 9006 white aluminium
Fastening materials

Angle Hinge Bracket 5				5
a [mm]	b [mm]	c [mm]	m [g]	
18	18	16	20.0	
1 set				0.0.437.83

Angle Hinge Bracket 6				6
a [mm]	b [mm]	c [mm]	m [g]	
27	27	24	65.0	
1 set				0.0.441.97

Angle Hinge Bracket 8				8
a [mm]	b [mm]	c [mm]	m [g]	
36	36	32	135.0	
1 set				0.0.457.76


Angle Clamp Bracket 5

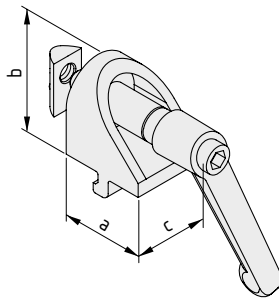

a [mm]	b [mm]	c [mm]	m [g]
18	18	16	19.0
1 set			0.0.437.84

Angle Clamp Bracket 6


a [mm]	b [mm]	c [mm]	m [g]
27	27	24	66.0
1 set			0.0.441.98

Angle Clamp Bracket 8


a [mm]	b [mm]	c [mm]	m [g]
36	36	32	130.0
1 set			0.0.457.77


Angle Clamp Bracket 5 with Clamp Lever


a [mm]	b [mm]	c [mm]	m [g]
18	18	16	51.0
1 set			0.0.437.85

Angle Clamp Bracket 6 with Clamp Lever


a [mm]	b [mm]	c [mm]	m [g]
27	27	24	103.0
1 set			0.0.441.99

Angle Clamp Bracket 8 with Clamp Lever


a [mm]	b [mm]	c [mm]	m [g]
36	36	32	225.0
1 set			0.0.457.78



Angle Locking Bracket 8 80x40

Secure fixing and rapid adjustment

- Toothed fastener reinforces rigid angled connection
- For inclined ledges and shelves
- Adjustment in 2.5° increments
- Easy to adjust without the need for tools

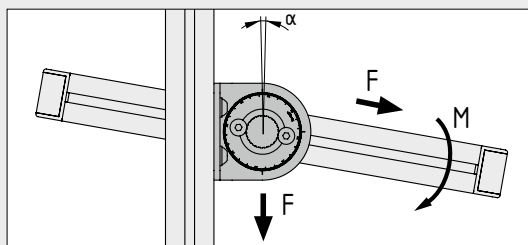


Angle Locking Bracket 8 80x40 is an ideal fastening element for adjustable fixtures. It enables the set-up and easy adjustment of ergonomic work benches. Typical areas of application include stand-alone shelves, shelving units, material trolleys, etc.

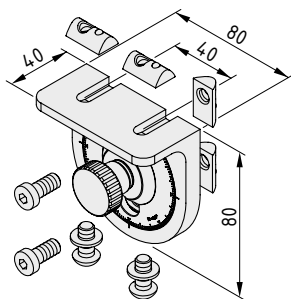
The Angle Locking Bracket is incredibly easy to adjust: When the knurled screw is loosened, spring pressure lifts the disc out of the toothing and enables adjustments to be carried out easily without the need for tools. The toothing creates an extremely strong rigid angled fixing. The angle of incline can be adjusted in 2.5° increments.



The Angle Locking Bracket is supplied preassembled and is screwed easily to Profiles 8 using the enclosed fastening elements without processing.



An adjustable profile frame with 2 Angle Locking Brackets 8 80x40 can withstand a force $F_{\max.} = 2000 \text{ N}$. This profile frame has a permissible loading moment of: $M = 100 \text{ Nm}$



Angle Locking Bracket 8 80x40



Bracket and locking discs, die-cast aluminium, RAL 9006 white aluminium
 Knurled screw M8x18, St, bright zinc-plated
 2 compression springs, St
 2 Button-Head Screws M8x18, St, bright zinc-plated
 2 Hexagon Socket Head Cap Screws M8x18, St, bright zinc-plated
 3 washers, St, bright zinc-plated
 4 T-Slot Nuts 8 St M8, bright zinc-plated
 $m = 290.0 \text{ g}$

1 set

0.0.615.59

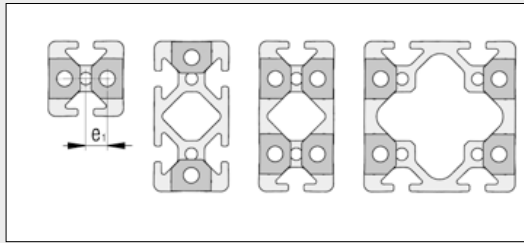
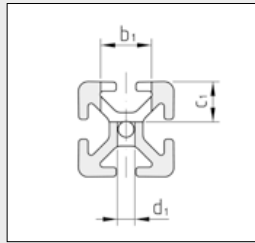
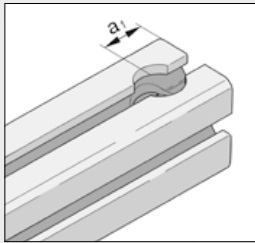


Universal-Butt-Fastening Sets

- Connect identical profiles via their end faces



Extend the profiles only with the aid of the corresponding fastening elements and, where possible, support them at the joints.



Universal-Fastening Sets should always be used in pairs.

Universal-Fastening Set

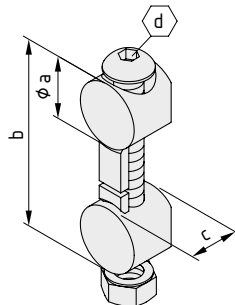
	5	6	8	10	12
a_1	10.0 mm	15.0 mm	20.0 mm	25.0 mm	30.0 mm
b_1	Ø 12.0 mm	Ø 16.0 mm	Ø 20.0 mm	Ø 25.0 mm	Ø 30.0 mm
c_1	8.5 mm	12.7 mm	16.0 mm	20.0 mm	24.0 mm
d_1	Ø 4.3 mm	Ø 5.5 mm	Ø 7.0 mm	Ø 9.0 mm	Ø 12.0 mm
e_1	5.8 mm	8.7 mm	12.0 mm	15.1 mm	17.8 mm

The following applies to all the sets below:

2 Universal Fasteners, die-cast zinc

Screw, St

Hexagon nut, St



Universal-Butt-Fastening Set 5

a [mm]	b [mm]	c [mm]	d [mm]	M_{bzp} [Nm]	m [g]
12	32	8.5	3	3.0	10.0
bright zinc-plated, 1 set					0.0.370.32

Universal-Butt-Fastening Set 5

a [mm]	b [mm]	c [mm]	d [mm]	M_{stainl} [Nm]	m [g]
12	32	8.5	3	2.5	10.0
stainless, 1 set					0.0.437.55

Universal-Butt-Fastening Set 6

a [mm]	b [mm]	c [mm]	d [mm]	M _{bz-p} [Nm]	m [g]
16	46	12.6	4	8.0	27.0
bright zinc-plated, 1 set					0.0.419.53

Universal-Butt-Fastening Set 6

a [mm]	b [mm]	c [mm]	d [mm]	M _{stainl.} [Nm]	m [g]
16	46	12.6	4	6.5	27.0
stainless, 1 set					0.0.441.77

Universal-Butt-Fastening Set 8

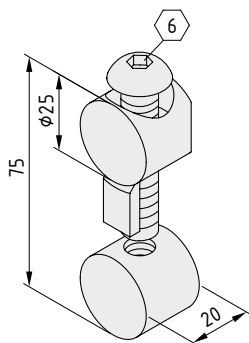
a [mm]	b [mm]	c [mm]	d [mm]	M _{bz-p} [Nm]	m [g]
20	60	16	5	25	60.0
bright zinc-plated, 1 set					0.0.265.46

Universal-Butt-Fastening Set 8

a [mm]	b [mm]	c [mm]	d [mm]	M _{stainl.} [Nm]	m [g]
20	60	16	5	20	60.0
stainless, 1 set					0.0.440.94

Universal-Butt-Fastening Set 12

a [mm]	b [mm]	c [mm]	d [mm]	M _{bz-p} [Nm]	m [g]
30	90	24	6	60	200.0
bright zinc-plated, 1 set					0.0.003.61

**Universal-Butt-Fastening Set 10**

Universal Fastener 10, St
 Button-Head Screw ISO 7380-M10x50, St
 Universal Butt-Fastener 10, St
 $M_{\text{bright zinc-plated}} = 46 \text{ Nm}$ $m = 148.5 \text{ g}$

bright zinc-plated, 1 set					0.0.632.08
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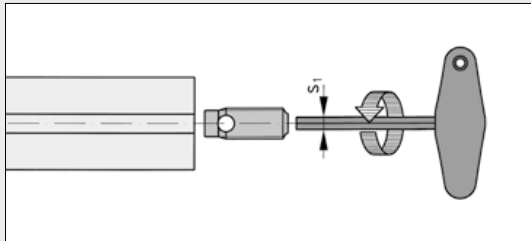


Automatic Butt-Fastening Sets

- Connect identical profiles via their end faces
- No profile machining required



The Automatic Butt-Fastening Sets can be used to connect the end faces of two profiles from the same Line without mechanical processing. Automatic Butt-Fastening Sets should always be used in pairs. Depending on the profile size and load, several pairs may be necessary.

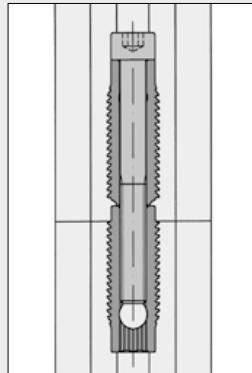


Automatic Butt-Fastening Set

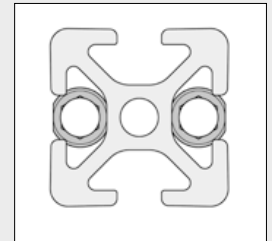
	5	6	8	12
s_1	4 A/F	5 A/F	6 A/F	8 A/F

The Fastener is screwed into a profile groove in the end face, the thread being cut automatically. Use of a lubricant is recommended.

Note: All Fasteners with a through bore for the fastening screw have a counter-clockwise thread on the outside in order to prevent the Fastener twisting when the screw is tightened. The Fasteners with internal threads have a clockwise thread on the outside.



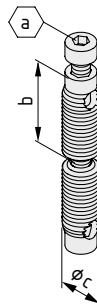
When driving the Fastener with internal thread into a profile, additional anti-torsion protection can be provided by leaving the end protruding out so that it projects into the groove opposite. The Fastener with through bore will then need to be driven far enough into the adjoining profile to accommodate it.



Automatic-Fastening Set 5 should be inserted so that the flattening on the thread is flush with the outer edge of the profile.

The following applies to all the sets below:

Automatic Fastener with through bore, St
Automatic Fastener with threaded bore, St
Hex. Socket Head Cap Screw, St



Automatic Butt-Fastening Set 5



a [mm]	b [mm]	c [mm]	M_{bzp} [Nm]	m [g]
3	24	7	2.5	11.0
bright zinc-plated, 1 set				0.0.464.19

Automatic Butt-Fastening Set 5



a [mm]	b [mm]	c [mm]	$M_{stainl.}$ [Nm]	m [g]
3	24	7	2.5	11.0
stainless, 1 set				0.0.464.18

Automatic Butt-Fastening Set 6

a [mm]	b [mm]	c [mm]	M _{bz.p.} [Nm]	m [g]
4	27	10	8.0	23.0
bright zinc-plated, 1 set				0.0.419.74

Automatic Butt-Fastening Set 6

a [mm]	b [mm]	c [mm]	M _{stainl.} [Nm]	m [g]
4	27	10	6.5	23.0
stainless, 1 set				0.0.441.71

Automatic Butt-Fastening Set 8

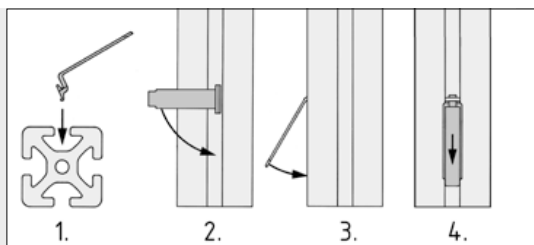
a [mm]	b [mm]	c [mm]	M _{bz.p.} [Nm]	m [g]
5	31	12	14	43.0
bright zinc-plated, 1 set				0.0.406.80

Automatic Butt-Fastening Set 8

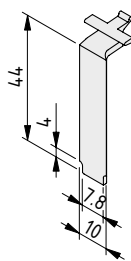
a [mm]	b [mm]	c [mm]	M _{stainl.} [Nm]	m [g]
5	31	12	11	43.0
stainless, 1 set				0.0.444.15

Automatic Butt-Fastening Set 12

a [mm]	b [mm]	c [mm]	M _{bz.p.} [Nm]	m [g]
6	47	18	34	140.0
bright zinc-plated, 1 set				0.0.003.51



A cover is available for Automatic-Fastening Set 8. It is fitted after the fastening has been installed.

**Automatic-Fastening Set 8 Cap**

PA-GF m = 0.7 g			
black, similar to RAL 9005, 1 pce.			0.0.388.66
grey similar to RAL 7042, 1 pce.			0.0.616.31



Mitre-Butt-Fastening Sets

- Connect two profiles with the same mitre angle
- Overall angle of 60° to 180° possible



Mitre-Butt-Fastening Sets are suitable for connecting two profiles at an angle. They are used primarily when constructing frame elements and panel edging. The profile grooves facing each other inside the frame remain unobstructed so they can be used for holding panel elements.

Two mitred profiles (each with an identical angle γ between 30° and 90°) are connected together. This gives a possible angle between the profiles of (2γ) between 60° and 180°.

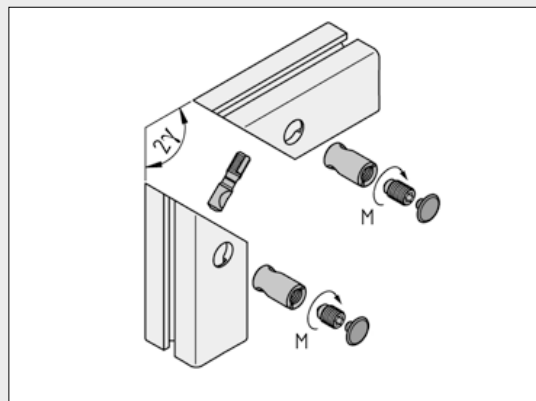
The position of the clamping pins at right angles to the cut profile edge generates particularly high clamping forces on the

fastening elements. The clamping screws are accessed from the side of the profile frame.

Note:

Despite the optimized design, the flow of forces across the inclined contact faces of the profiles is such that only part of the pretension of the screw connection is utilized. Mitre connections therefore have a lower load bear-

ing capacity than other, right-angled profile connections (Standard-Fastening, Universal-Fastening or Automatic-Fastening Set). Mitre-Fastening Sets should therefore not be used for constructing basic frames and safety-related parts that are subject to high loads.

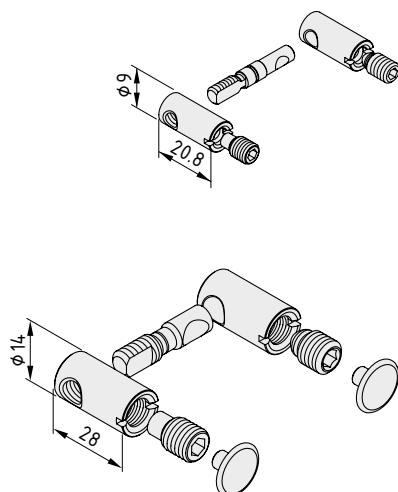


Connection processing of the profiles is the same as for the Mitre-Fastening Set. Your item dealer can provide the required mitre cuts and profile processing as a service.

Using the Mitre-Butt-Fastening Set:

1. Mitre-cut profile at angle γ .
2. Drill counterbores for the fastener sleeves into the side of each profile (use of drilling jig recommended).
3. Drill a hole into the mitred face of both profiles (use of drilling jig recommended).
4. Insert the fastener sleeve with lateral thread into the counterbore of one of the profiles and screw in the clamping pin until the perimeter mark is level with the cut profile edge.
5. Use grub screw DIN 915 to tighten the clamping pin in the fastener sleeve with thread.
6. Insert the fastener sleeve with bore into the second profile, and fit the assembly over the clamping pin.
7. Drive the special grub screw into the fastener sleeve and clamp the profile connection.
8. Fit the caps onto the fastener sleeves (Line 8).

Drilling Jig and Step Drill, Mitre Connection  580



Mitre-Butt-Fastening Set 6



Clamping pin M5x29, St, bright zinc-plated
Sleeve with bore, St, bright zinc-plated
Threaded sleeve, St, bright zinc-plated
Grub screw M6, St, bright zinc-plated
Grub screw DIN 915-M6x10, St, bright zinc-plated
m = 20.0 g

1 set

0.0.606.47

Mitre-Butt-Fastening Set 8



Clamping pin M8x33, St, bright zinc-plated
Sleeve with bore, St, bright zinc-plated
Threaded sleeve, St, bright zinc-plated
Grub screw M10, St, bright zinc-plated
Grub screw DIN 915-M10x16, St, bright zinc-plated
2 Caps, PA grey
m = 58.0 g

1 set

0.0.492.25

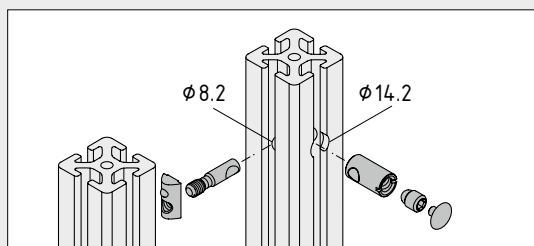
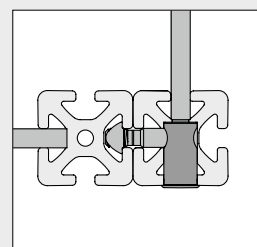
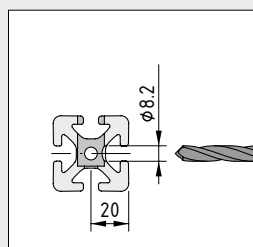
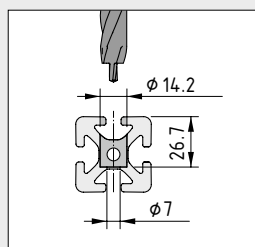
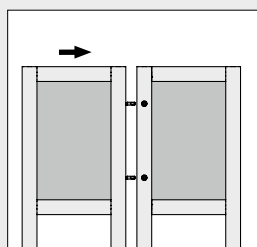
Central-Fastening Set P 8

- Connect two parallel Profiles 8
- Flush connection for partitioning and room dividers



Central-Fastening Set P 8 can be used to quickly connect together individual, inherently stable partitions or partition elements side by side without time-consuming alignment procedures.

Unevenness in the ground can be compensated for by adjusting the position of the T-Slot Nut in the profile groove.



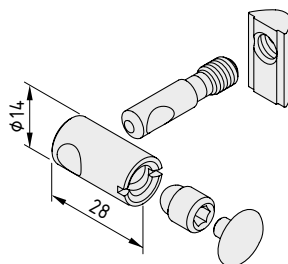
Profile processing: To accommodate the fastener sleeve, a $\varnothing 14.2$ mm counterbore is drilled into the side of one of the profiles being connected (using Step Drill 0.0.492.60) along with a $\varnothing 8.2$ mm fastening hole located perpendicular to this.

T-Slot Nut V 8 St M8 is fitted into the facing groove of the second profile and the clamping pin is screwed into this T-Slot Nut as far as the marking.

After the clamping pin has been inserted into the fastener sleeve, the profile connection is tightened with an M10 grub screw (tightening torque $M = 15$ Nm).

N.B.: At least 2 grooves always remain free for fitting panel elements into the profile grooves. Frame elements can also be connected to each other at an angle of 90° by positioning Central-Fastening Set P 8 appropriately.

Drilling Jig and Step Drill, Mitre Connection 580



Central-Fastening Set P 8



Clamping pin, St, bright zinc-plated
T-Slot Nut V 8 St M8, bright zinc-plated
Threaded sleeve with bore, St, bright zinc-plated
Grub screw M10, St, bright zinc-plated
Cap, PA, grey
 $m = 44.0$ g

1 set

0.0.619.69



Parallel Fastener 8

Holds by itself

- Connect two parallel Profiles 8
- No machining required
- Easy to use thanks to snap-in function



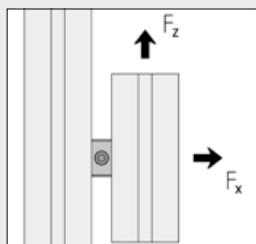
Element for fastening two parallel Line 8 Profiles at a distance of 12 mm.

Parallel Fastener 8 is very easy to use: Both halves of the spring loaded fastener engage in the profile grooves facing

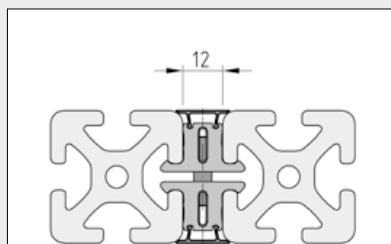
each other. This fixes the profiles in position. The fastener is then clamped by tightening an internal screw.



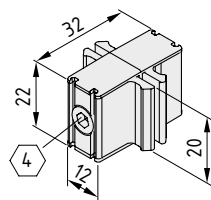
Max. torque for the tensioning screw:
 $M = 2.5 \text{ Nm}$



Permissible loading force per Fastener:
 $F_x = 1,000 \text{ N}$
 $F_z = 100 \text{ N}$



Using the Parallel Fastener 8 Cover Profile:
The gap (12 mm wide) between the profiles which is generated when Parallel Fastener 8 is used can be covered in full using this profile. The Cover Profile must be fitted over at least 2 Parallel Fasteners 8. Parallel Fastener 8 Cover Profile Cap covers the end-face gap between the profiles when using Parallel Fastener 8 Cover Profiles.

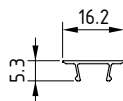


Parallel Fastener 8

2 clamping elements, Al, anodized natural
Housing, PA-GF, black
Compression spring
Tensioning screw, St, bright zinc-plated
 $m = 21.0 \text{ g}$

1 set

0.0.476.58

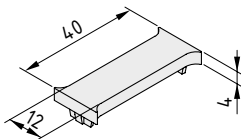


Parallel Fastener 8 Cover Profile

Al, anodized
 $m = 50 \text{ g/m}$

natural, 1 pce., length 2000 mm

0.0.476.59



Parallel Fastener 8 Cover Profile End Cap

PA-GF
 $m = 2.5 \text{ g}$

black, 1 pce.

0.0.476.60



Connection Profiles

Connect Profiles 8 to make extra strong supports

- Simple engineering for stable composite profiles
- For open and closed supports
- Suitable Cover Profile for easy-to-clean surfaces

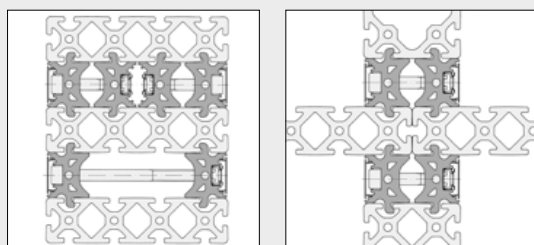


Connection Profile 8 40 is supplied in pairs and machined with 11 mm \varnothing bores (bore spacing 200 mm) for the fastening screws.

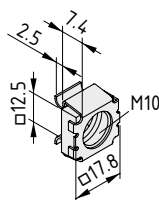
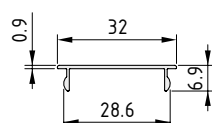
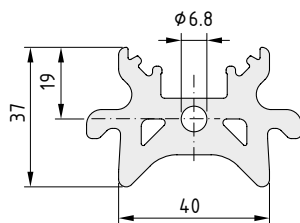
The use of Captive Nuts (designed to fix positions and prevent

torsion) allows the Connection Profile to be fitted from one side. DIN 912-M10x60, M10x100 or M10x140 Hexagon Socket Head Cap Screws (tightening torque $M = 34 \text{ Nm}$)

are inserted at the relevant predetermined positions to join Connection Profiles. The joint and/or screw heads and Captive Nuts can be covered over with a dust-tight Cover Profile 32.



Hexagon Socket Head
Cap Screw DIN 912  153
M10x60



Connection Profile 8 40

Al, anodized

(The values apply for an individual profile section and not for a pair)

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	I _t [cm ⁴]	W _x [cm ³]	W _y [cm ³]
8.97	2.42	5.73	19.85	4.53	2.90	6.96
natural, cut-off max. 6000 mm, 1 pair						0.0.422.35
natural, 1 pair, length 6000 mm						0.0.453.90

Cover Profile 32

Al, anodized

A [cm²]	m [kg/m]
0.41	0.11
natural, cut-off max. 3000 mm	0.0.420.43

Captive Nut M10

Cage and square nut, St

m = 8.0 g

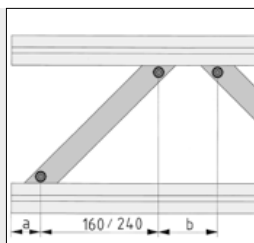
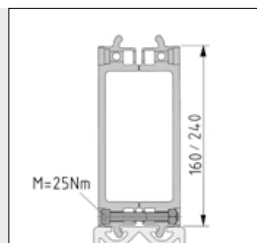
bright zinc-plated, 1 pce.	8.0.004.02
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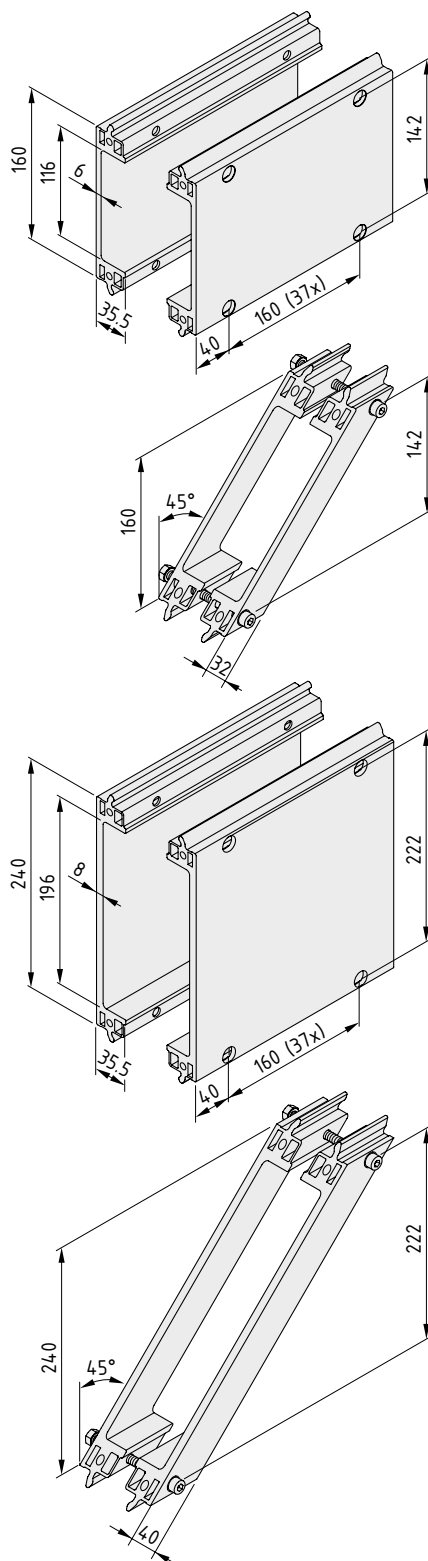
Connection Profiles 8 160 and 8 240 are supplied in pairs and machined with bores for the DIN 912-M8x60 fastening screws and DIN 934-M8 Hexagon Nuts.

The Connection Profile Braces 8 are ready-to-install kits complete with screws and nuts.

Hexagon Socket Head
Cap Screw DIN 912  153
M8x60



The Connection Profile Braces (45° sections of the Connection Profiles) are suitable for constructing lightweight, open "composite profiles". These Connection Profile Braces consist of left and right diagonal sections together with the corresponding nuts and bolts. They can be retrofitted at any point and any distance (dimension a / b) along the profiles which are being joined. With a fixed spacing of 160 or 240 mm, the Connection Profiles Braces represent an inexpensive alternative to the latticework construction.



Connection Profile 8 160

8

Al, anodized

(The values apply for an individual profile section and not for a pair)

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]
17.80	4.76	16.70	606.30	67.80	6.70
natural, cut-off max. 6000 mm, 1 pair					0.0.458.03
natural, 1 pair, length 6000 mm					0.0.458.08

Connection Profile Brace 8 160-45°

8

Al, anodized, natural

Brace right

Brace left

2 Hexagon Socket Head Cap Screws DIN 912-M8x60, St, bright zinc-plated

2 Hexagon Nuts DIN 934-M8, St, bright zinc-plated

a_{min.} = 33 mm (recommended 40 mm)

b_{min.} = 65 mm (recommended 80 mm)

m = 488.0 g

1 set	0.0.458.18
-------	------------

Connection Profile 8 240

8

Al, anodized

(The values apply for an individual profile section and not for a pair)

A [cm ²]	m [kg/m]	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]
26.00	6.97	19.20	1,804.00	139.30	7.10
natural, cut-off max. 6000 mm, 1 pair					0.0.458.17
natural, 1 pair, length 6000 mm					0.0.458.14

Connection Profile Brace 8 240-45°

8

Al, anodized, natural

Brace right

Brace left

2 Hexagon Socket Head Cap Screws DIN 912-M8x60, St, bright zinc-plated

2 Hexagon Nuts DIN 934-M8, St, bright zinc-plated

a_{min.} = 38 mm (recommended 40 mm)

b_{min.} = 76 mm (recommended 80 mm)

m = 846.0 g

1 set	0.0.458.21
-------	------------

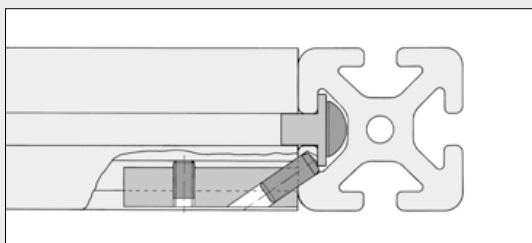


Pin Elements

- Excellent resistance against impact and overload
- Additional rigidity from dowel pin

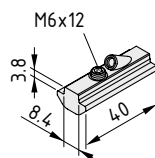


The Pin Element is used to add extra rigidity to power-lock connections, e.g. between horizontal braces and continuous vertical profiles which are subject to heavy load. Preferably used in pairs, Pin Elements can provide additional support for Standard, Universal and Automatic Fasteners.



The Pin Element is inserted into the profile groove through the end face and, after applying the Standard, Universal or Automatic Fasteners, is then pushed to the end of the profile and fixed in position. A hole (Line 8: \varnothing 5.9 mm; Line 12: \varnothing 9.9 mm) is drilled in the profile to accommodate the dowel.

Each element that is deployed increases the displacement resistance of the connection to a maximum of 3,000 N (Line 8) or 6,000 N (Line 12).



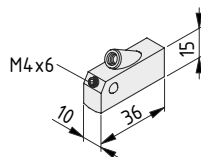
Pin Element 8



Body, St, bright zinc-plated
Grub screw DIN 916-M6x12, St, bright zinc-plated
Dowel ISO 8735-6m6x16, St, hardened
m = 34.0 g

1 pce.

0.0.265.37



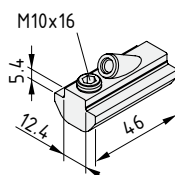
Pin Element 10



Basic unit, St, bright zinc-plated
Grub screw DIN 914-M4x6, St, bright zinc-plated
Dowel ISO 8735-8m6x16, St, hardened
m = 48.3 g

1 pce.

0.0.624.87



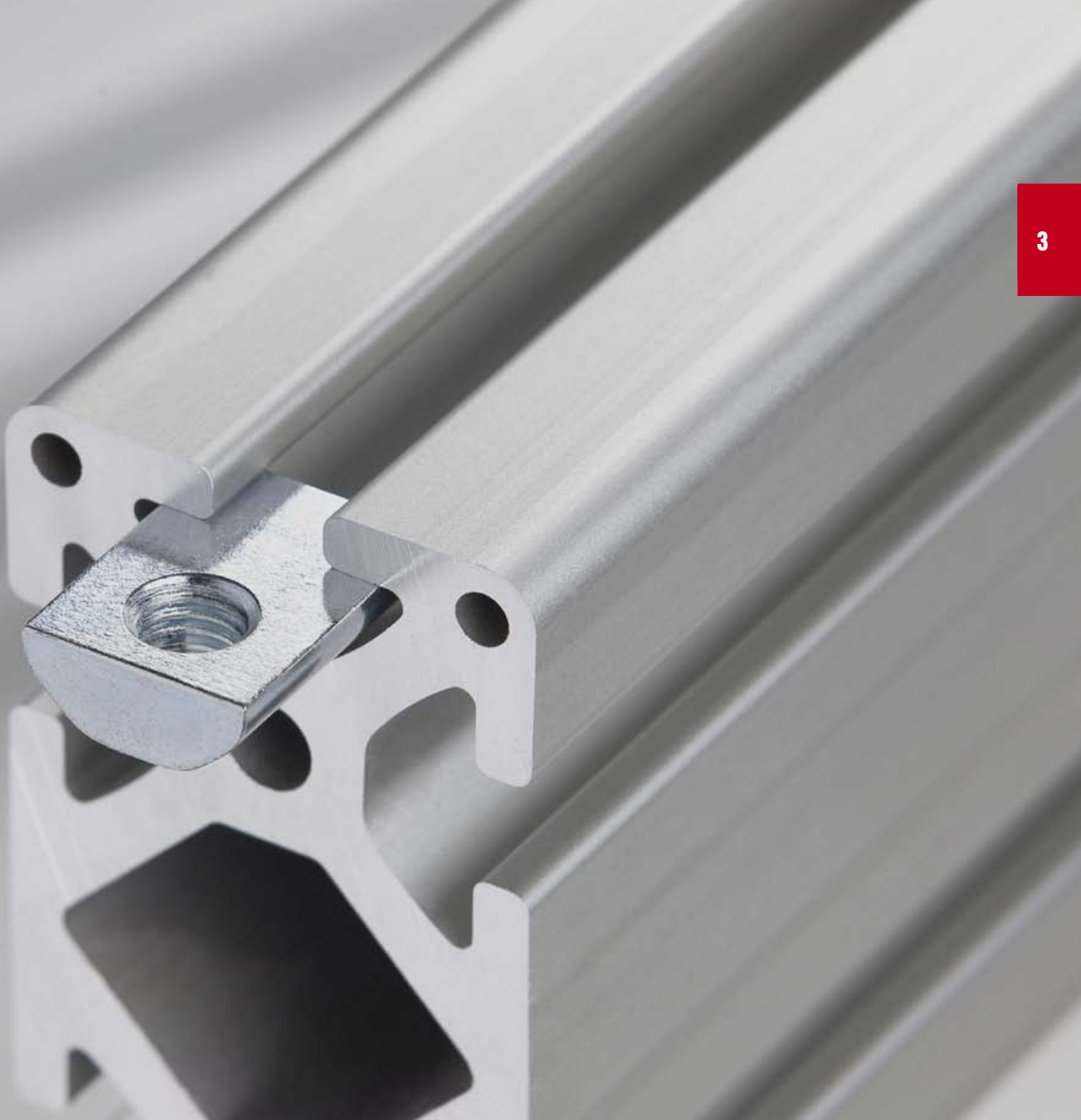
Pin Element 12



Body, St, bright zinc-plated
Grub screw DIN 913-M10x16, St, bright zinc-plated
Dowel ISO 8735-10m6x24, St, hardened
m = 100.0 g

1 pce.

0.0.010.06









T-SLOT NUTS

3

T-Slot Nuts
T-Slot Nut Profiles
Screw Strips

Overview – finding the right T-Slot Nut fast

3

	5		6		8		10		12	
	Type	max. F [N]	Type	max. F [N]	Type	max. F [N]	Type	max. F [N]	Type	max. F [N]
T-Slot Nuts St and V St – the stable fastening that is suitable for all profile fasteners										132
	5 St M5	500	6 St M6	1,750*	8 St M8	5,000*	10 St M10	7,000*	12 St M12	10,000*
	5 St M5, stainless	400	6 St M6, stainless	1,400*	8 St M8, stainless	4,000*	10 St M8	6,000*	12 St M10	10,000*
	5 St M4	500	6 St M5	1,750*	8 St M6	3,500*	10 St M6	3,500*	12 St M8	6,000*
	5 St M4, stainless	400	6 St M5, stainless	1,400*	8 St M6, stainless	2,800*			12 St M6	3,500*
	5 St M3	500	6 St M4	1,750*	8 St M5	2,500*				
			6 St M3	500	8 St M5, stainless	2,000*				
					8 St M4	2,500*				
					8 St M4, stainless	2,000*				
					V 8 St M8	4,000*				
					V 8 St M6	3,500*				
					V 8 St M5	2,500*				
					V 8 St M4	2,500*				
T-Slot Nuts Zn – simple installation and a fixed hold in the groove										137
	5 Zn M3	50	6 Zn M4	150	8 Zn M5	250				
					8 Zn M4	250				
					8 Zn M3	250				
T-Slot Nuts PA – for lightweight attachments										138
					8 PA	150				
T-Slot Nuts St/PA – cost-effective and easy to install										139
					8 St/PA M6	1,000				
					8 St/PA M5	1,000				
					8 St/PA M4	500				
					8 St/PA M3	500				
T-Slot Nuts F ST – electrostatically dissipative and fixed in position										140
			F 6 St M6	1,750*	F 8 St M6	3,500*				
			F 6 St M5	1,750*	F 8 St M5	2,500*				
			F 6 St M4	1,750*	F 8 St M4	2,500*				
T-Slot Nuts St, heavy duty – for the ultimate loads										141
					8 St M8, heavy duty	5,000*	10 St M10, heavy duty	8,000*	12 St M12, heavy duty	10,000*
					8 St M6, heavy duty	3,500*	10 St M8, heavy duty	6,000*	12 St M10, heavy duty	10,000*
									12 St M8, heavy duty	6,000*

* take load-carrying capacity of profile groove into account!

T-Slot Nuts

Products in this section

3



T-Slot Nuts St

- For universal in-groove fastening
- Practical, secure and tried and tested

132



T-Slot Nuts St with 2 Threads

- Easy to fit for dual screw connections

135



Hammerhead Nut 8 M6

- Rapid hold with a flick of the wrist
- ESD contact as standard

136



T-Slot Nuts Zn

- Simple fastening for components
- Automatically locked when screw is tightened

137



T-Slot Nut PA

- For fastening lightweight components with low loads
- Easy to fit, fixed positioning

138



T-Slot Nuts F

- For conductive profile connections
- Fixed in position by grub screw

140



T-Slot Nuts St, heavy-duty

- Effective transferral of tensile loads into the profile
- More supporting threads for stronger screw connections

141



Profile Bars and Groove Profiles

- For anchoring entire modules in the profile groove
- Threads can be positioned at will according to requirements

142



Screw Strips Al

- Screw channel for creating fastenings at any position using Self-Tapping Screws
- Strips are simply pressed into the profile groove

144



Note:

Technical data on the T-Slot Nuts can be found in Section 19.



T-Slot Nuts St

Practical, secure and tried and tested

- The T-Slot Nut with the broadest product diversity
- Available in seven thread sizes
- Available with anti-torsion feature (V)

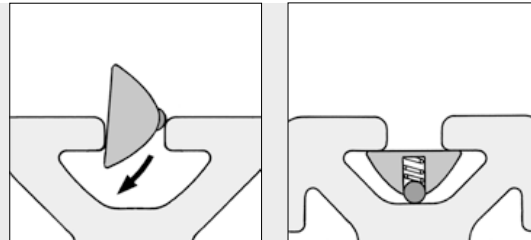


A secure hold in all positions. T-Slot Nut St is available for all profile lines. Its key feature is the thrust piece on the underside, which incorporates a spring that enables the user to roll the T-Slot Nut into the groove. The thrust piece then holds the T-Slot Nut securely in place, making assembly much easier.

T-Slot Nut St is available in a range of thread sizes from M3 to M12 to suit various applications and loads.

Note regarding T-Slot Nut V 8 M8:

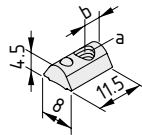
The load-carrying capacity of this T-Slot Nut with anti-torsion feature is 20 percent lower than that of the comparable T-Slot Nut 8.



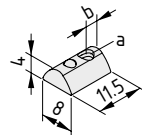
T-Slot Nuts St are inserted into the profile groove where they are secured in position by means of thrust pieces.

Materials used in all the following products:

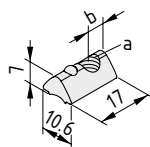
St



T-Slot Nut 5 St M3				5
a = M3	b = 3 mm	M = 1.5 Nm	m = 2.0 g	
bright zinc-plated, 1 pce.				0.0.437.19



T-Slot Nut 5 St M4				5
a = M4	b = 3 mm	M = 3 Nm	m = 2.0 g	
bright zinc-plated, 1 pce.				0.0.370.06



T-Slot Nut 5 St M5				5
a = M5	b = 4 mm	M = 4.5 Nm	m = 2.0 g	
bright zinc-plated, 1 pce.				0.0.370.01

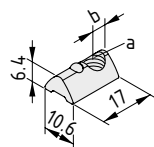
T-Slot Nut 5 St M4				5
a = M4	b = 3 mm	M = 2.4 Nm	m = 2.0 g	
stainless, 1 pce.				0.0.425.10

T-Slot Nut 5 St M5				5
a = M5	b = 4 mm	M = 3.6 Nm	m = 2.0 g	
stainless, 1 pce.				0.0.425.11

T-Slot Nut 6 St M3				6
a = M3	b = 4.5 mm	M = 1.5 Nm	m = 4.0 g	
bright zinc-plated, 1 pce.				0.0.459.44

T-Slot Nut 6 St M4				6
a = M4	b = 4.5 mm	M = 4 Nm	m = 4.0 g	
bright zinc-plated, 1 pce.				0.0.419.46

T-Slot Nut 6 St M5				6
a = M5	b = 4.5 mm	M = 8 Nm	m = 4.0 g	
bright zinc-plated, 1 pce.				0.0.419.43

**T-Slot Nut 6 St M6**

a = M6 b = 5.5 mm M = 14 Nm m = 4.0 g

bright zinc-plated, 1 pce.

0.0.419.40

T-Slot Nut 6 St M5

a = M5 b = 4.5 mm M = 6.5 Nm m = 4.0 g

stainless, 1 pce.

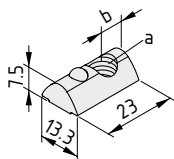
0.0.439.72

T-Slot Nut 6 St M6

a = M6 b = 5.5 mm M = 11 Nm m = 4.0 g

stainless, 1 pce.

0.0.439.75

**T-Slot Nut V 8 St M4**

a = M4 b = 7.5 mm M = 4 Nm m = 11.1 g

bright zinc-plated, 1 pce.

0.0.480.57

T-Slot Nut V 8 St M5

a = M5 b = 7.5 mm M = 8 Nm m = 10.6 g

bright zinc-plated, 1 pce.

0.0.480.54

T-Slot Nut V 8 St M6

a = M6 b = 6.5 mm M = 14 Nm m = 10.3 g

bright zinc-plated, 1 pce.

0.0.480.50

T-Slot Nut V 8 St M8

a = M8 b = 7.5 mm M = 20 Nm m = 9.3 g

bright zinc-plated, 1 pce.

0.0.480.48

T-Slot Nut 8 St M4

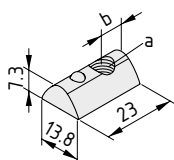
a = M4 b = 7.5 mm M = 4 Nm m = 11.0 g

bright zinc-plated, 1 pce.

0.0.420.06

stainless, 1 pce.

0.0.428.54

**T-Slot Nut 8 St M5**

a = M5 b = 7.5 mm M = 8 Nm m = 11.0 g

bright zinc-plated, 1 pce.

0.0.420.05

stainless, 1 pce.

0.0.428.55

T-Slot Nut 8 St M6

a = M6 b = 6.5 mm M = 14 Nm m = 10.0 g

bright zinc-plated, 1 pce.

0.0.026.23

stainless, 1 pce.

0.0.388.51

T-Slot Nut 8 St M8

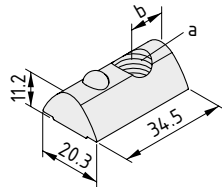
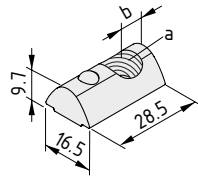
a = M8 b = 7.5 mm M = 25 Nm m = 10.0 g

bright zinc-plated, 1 pce.

0.0.026.18

stainless, 1 pce.

0.0.388.49


T-Slot Nut 10 St M6


a = M6 mm b = 8.5 mm M = 14 Nm m = 22.4 g

bright zinc-plated, 1 pce.

0.0.625.06

T-Slot Nut 10 St M8


a = M8 mm b = 8.5 mm M = 34 Nm m = 21.1 g

bright zinc-plated, 1 pce.

0.0.625.04

T-Slot Nut 10 St M10


a = M10 mm b = 8.5 mm M = 46 Nm m = 19.4 g

bright zinc-plated, 1 pce.

0.0.625.02

T-Slot Nut 12 St M6


a = M6 b = 11.3 mm M = 14 Nm m = 38.0 g

bright zinc-plated, 1 pce.

0.0.003.72

T-Slot Nut 12 St M8


a = M8 b = 11.3 mm M = 34 Nm m = 35.0 g

bright zinc-plated, 1 pce.

0.0.003.63

T-Slot Nut 12 St M10


a = M10 b = 11.3 mm M = 46 Nm m = 33.0 g

bright zinc-plated, 1 pce.

0.0.003.64

T-Slot Nut 12 St M12


a = M12 b = 11.3 mm M = 80 Nm m = 31.0 g

bright zinc-plated, 1 pce.

0.0.003.65



T-Slot Nuts St with 2 Threads

- Second thread provides additional hold
- Extremely easy to use

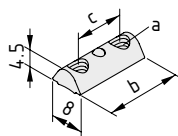



T-Slot Nuts St with 2 Threads are primarily intended for use with Angle Elements T2 and Universal and Automatic Fasteners (see section on fastening technology) to construct stable latticework structures. However, they can also be used with all other profile connections.

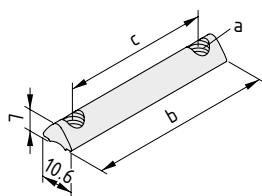
With a suitable grub screw in one of their threaded bores, these T-Slot Nuts create a non-slip thread in the profile groove.


Materials used in all the following products:

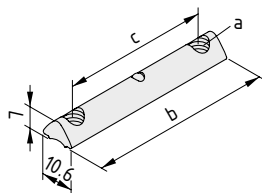
St





T-Slot Nut 5 St 2xM4-18 				
a	b [mm]	c [mm]	M [Nm]	m [g]
M4	18	11.6	8	3.0
bright zinc-plated, 1 pce.				0.0.614.40





T-Slot Nut 5 St 2xM4-20 				
a	b [mm]	c [mm]	M [Nm]	m [g]
M4	20	13.6	8	3.3
bright zinc-plated, 1 pce.				0.0.614.42

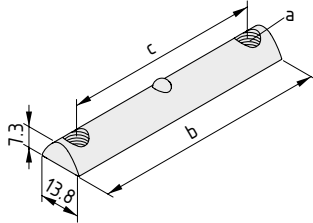
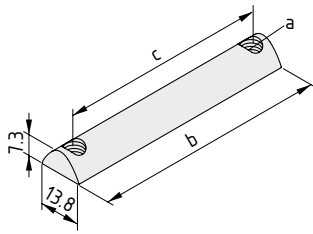


T-Slot Nut 6 St 2xM5-28 				
a	b [mm]	c [mm]	M [Nm]	m [g]
M5	28	19	8	8.0
bright zinc-plated, 1 pce.				0.0.459.78

T-Slot Nut 6 St 2xM5-58 				
a	b [mm]	c [mm]	M [Nm]	m [g]
M5	58	49	8	17.0
bright zinc-plated, 1 pce.				0.0.459.82

T-Slot Nut 6 St 2xM6-28 				
a	b [mm]	c [mm]	M [Nm]	m [g]
M6	28	17	14	7.0
bright zinc-plated, 1 pce.				0.0.610.10

T-Slot Nut 6 St 2xM6-58 				
a	b [mm]	c [mm]	M [Nm]	m [g]
M6	58	47	14	16.0
bright zinc-plated, 1 pce.				0.0.610.72



T-Slot Nut 8 St 2xM6-36

a	b [mm]	c [mm]	M [Nm]	m [g]
M6	36	26.4	14	16.0
bright zinc-plated, 1 pce.				0.0.406.77

T-Slot Nut 8 St 2xM6-76

a	b [mm]	c [mm]	M [Nm]	m [g]
M6	76	66.4	14	38.0
bright zinc-plated, 1 pce.				0.0.406.78

T-Slot Nut 8 St 2xM8-36

a	b [mm]	c [mm]	M [Nm]	m [g]
M8	36	24	25	14.0
bright zinc-plated, 1 pce.				0.0.610.80

T-Slot Nut 8 St 2xM8-76

a	b [mm]	c [mm]	M [Nm]	m [g]
M8	76	64	25	36.0
bright zinc-plated, 1 pce.				0.0.611.08

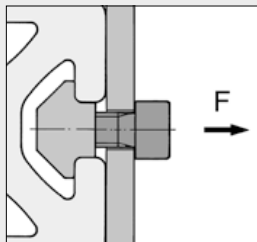


Hammerhead Nut 8 M6

- Rapid hold with a flick of the wrist
- Secure ESD contact as standard



For the fastest possible fastening in the profile groove – insert a screw that has already been fitted with Hammerhead Nut 8 St. When the screw is tightened, the Hammerhead Nut rotates around 90° and is clamped in the groove. A safe contact is made by partially destroying the anodized layer, making the fastening ESD dissipative.

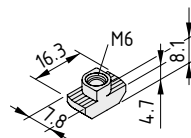


Permissible operating load
F = 1,000 N



Note

The Hammerhead Nut has a self-locking thread. This generates the drag torque (2 Nm) when tightening the screw.



Hammerhead Nut 8 M6

St	
M = 6 Nm	m = 2.8 g
bright zinc-plated, 1 pce.	0.0.626.06



T-Slot Nuts Zn

Straightforward fixing due to preassembly

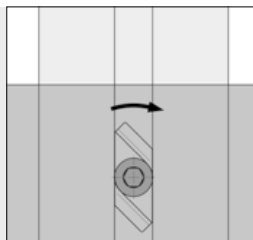
- Simple fastening for components
- Automatically locked when screw is tightened



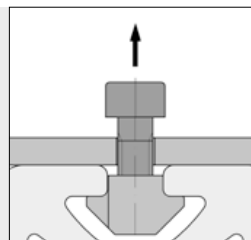
The ideal solution when speed is of the essence. T-Slot Nut Zn is provisionally screwed into place on the component that is to be fastened and then inserted anywhere along the groove of the supporting profile. When the screw is tightened, T-Slot Nut Zn automatically locks into place and creates a secure thread.

Note:

T-Slot Nut Zn is not suitable for connecting profiles to other profiles.



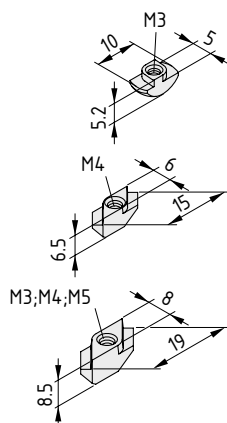
T-Slot Nuts Zn can, if required, be prefitted (with the screw) to the component to be secured and are inserted at any position in the profile groove.



Tightening the screw automatically locks the T-Slot Nut in the groove. Pulling the screw fixes T-Slot Nuts 6 Zn and 8 Zn in the groove by means of the conical flanks.

The following applies to all the products below:

Die-cast zinc



T-Slot Nut 5 Zn M3



M = 1 Nm m = 1.0 g

bright zinc-plated, 1 pce.

0.0.391.20

T-Slot Nut 6 Zn M4



M = 1.5 Nm m = 2.2 g

bright zinc-plated, 1 pce.

0.0.441.45

T-Slot Nut 8 Zn M3



M = 1 Nm m = 5.0 g

bright zinc-plated, 1 pce.

0.0.373.59

T-Slot Nut 8 Zn M4



M = 1.5 Nm m = 5.0 g

bright zinc-plated, 1 pce.

0.0.373.58

T-Slot Nut 8 Zn M5

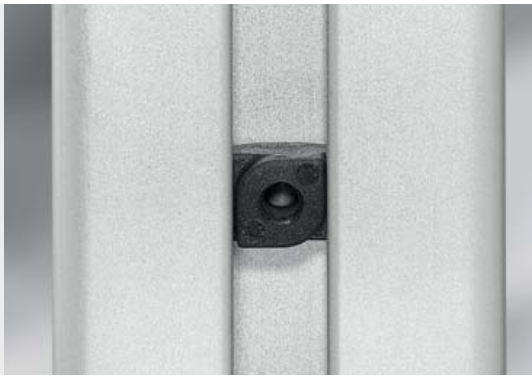


M = 1.5 Nm m = 5.0 g

bright zinc-plated, 1 pce.

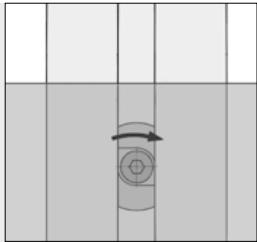
0.0.373.44

3

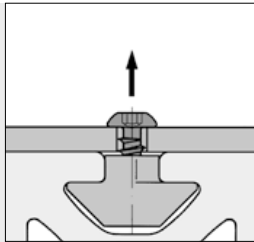


T-Slot Nut PA

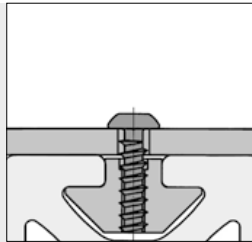
- For fastening lightweight components with low loads
- Straightforward assembly



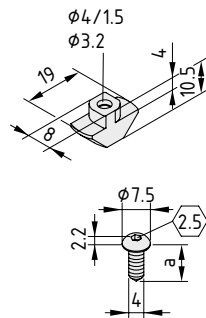
T-Slot Nut PA can, if required, be prefitted (using the screw) to the component to be secured and is inserted at any position in the profile groove.



Tightening the screw automatically locks the T-Slot Nut in the groove.



Button-Head Screw T4 from item has been specially designed for use with T-Slot Nut 8 PA. This screw cuts its own thread in the plastic body.



T-Slot Nut 8 PA



PA-GF

M = 1.5 Nm m = 1.0 g

black, 1 pce.

0.0.436.52

Button-Head Screw T4x12

St

a = 12 mm m = 1.0 g

bright zinc-plated, 1 pce.

0.0.440.39

Button-Head Screw T4x14

St

a = 14 mm m = 1.1 g

bright zinc-plated, 1 pce.

0.0.440.40

Button-Head Screw T4x16

St

a = 16 mm m = 1.2 g

bright zinc-plated, 1 pce.

0.0.440.41

Button-Head Screw T4x18

St

a = 18 mm m = 1.3 g

bright zinc-plated, 1 pce.

0.0.440.42

Button-Head Screw T4x25

St

a = 25 mm m = 1.6 g

bright zinc-plated, 1 pce.

0.0.440.43



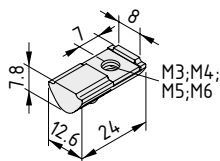
T-Slot Nuts St/PA

- Plastic housing prevents slipping in the groove
- For rapidly installing non-supporting elements



3

T-Slot Nuts St/PA are particularly easy to use because their patented plastic coating holds them firmly in the groove. However, they can still be moved along a groove with ease. Once they have been screwed into place they provide a lasting, secure hold. T-Slot Nuts St/PA are not designed for connecting one profile to another.



Materials used in all the following products:

Body PA-GF
Square nut insert St

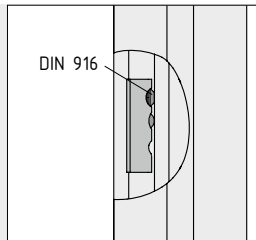
T-Slot Nut 8 St/PA M3			8
M = 1 Nm	m = 2.0 g		
black, 1 pce.		0.0.416.26	
T-Slot Nut 8 St/PA M4			8
M = 2 Nm	m = 2.0 g		
black, 1 pce.		0.0.416.23	
T-Slot Nut 8 St/PA M5			8
M = 4.5 Nm	m = 2.0 g		
black, 1 pce.		0.0.416.20	
T-Slot Nut 8 St/PA M6			8
M = 8 Nm	m = 2.0 g		
black, 1 pce.		0.0.416.17	

3



T-Slot Nuts F

- For conductive profile connections
- Securely held in position

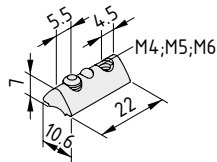


T-Slot Nut F combines the advantages of T-Slot Nut St with the requirements of ESD-safe systems. It produces a permanent conductive connection between the T-Slot Nut and the profile. This establishes an electrically conductive profile connection without the need for any additional elements. This is made possible by partially destroying the electrically insulating anodized surface covering of the profile at the base of the T-slot.

Materials used in all the following products:

St

Grub screw DIN 916 M5x5, St, bright zinc-plated

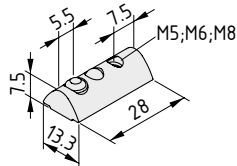


T-Slot Nut F 6 St M4	ESD	6
M = 4 Nm m = 7.0 g		
bright zinc-plated, 1 pce.		0.0.613.23
T-Slot Nut F 6 St M5	ESD	6
M = 4 Nm m = 6.7 g		
bright zinc-plated, 1 pce.		0.0.613.22
T-Slot Nut F 6 St M6	ESD	6
M = 4 Nm m = 6.4 g		
bright zinc-plated, 1 pce.		0.0.613.21

Materials used in all the following products:

St

Grub screw DIN 916 M6x6, St, bright zinc-plated



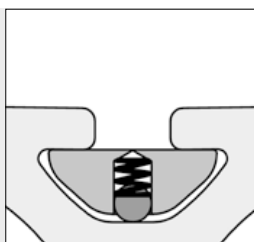
T-Slot Nut F 8 St M5	ESD	8
M = 4 Nm m = 12.7 g		
bright zinc-plated, 1 pce.		0.0.613.20
T-Slot Nut F 8 St M6	ESD	8
M = 4 Nm m = 12.3 g		
bright zinc-plated, 1 pce.		0.0.613.19
T-Slot Nut F 8 St M8	ESD	8
M = 4 Nm m = 11.4 g		
bright zinc-plated, 1 pce.		0.0.613.18



T-Slot Nuts St, heavy-duty

The heavyweights – for constructions with exceptionally high loads

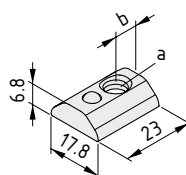
- Effective transferral of tensile loads into the profile
- More supporting threads for stronger screw connections
- Ideal for heavily loaded connections



T-Slot Nuts St, heavy-duty are inserted into the profile groove in the end face where they are secured in position by means of a thrust piece.

Materials used in all the following products:

St

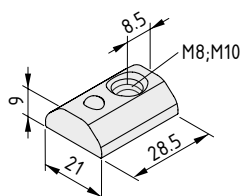


T-Slot Nut 8 St M6, heavy-duty

a = M6 b = 6.5 mm M = 14 Nm m = 17.0 g

bright zinc-plated, 1 pce.

0.0.427.75

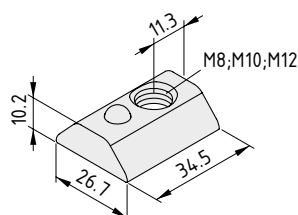


T-Slot Nut 8 St M8, heavy-duty

a = M8 b = 7.5 mm M = 34 Nm m = 16.0 g

bright zinc-plated, 1 pce.

0.0.420.83



T-Slot Nut 10 St M8, heavy-duty

M = 34 Nm m = 32.0 g

bright zinc-plated, 1 pce.

0.0.624.97

T-Slot Nut 10 St M10, heavy-duty

M = 65 Nm m = 30.5 g

bright zinc-plated, 1 pce.

0.0.624.95

T-Slot Nut 12 St M8, heavy-duty

M = 34 Nm m = 50.0 g

bright zinc-plated, 1 pce.

0.0.003.66

T-Slot Nut 12 St M10, heavy-duty

M = 65 Nm m = 47.0 g

bright zinc-plated, 1 pce.

0.0.003.67

T-Slot Nut 12 St M12, heavy-duty

M = 100 Nm m = 45.0 g

bright zinc-plated, 1 pce.

0.0.003.68

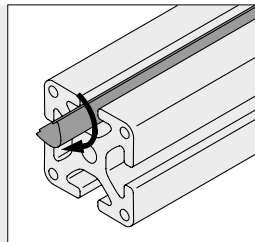


Profile Bars and Groove Profiles

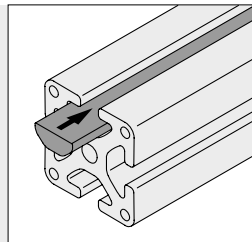
- For anchoring entire modules in the profile groove
- Threads can be positioned at will according to requirements



The ability to customise the Profile Bars and Groove Profiles mean that fastening elements can be produced which are geared to the needs of specific applications.



Profile Bars St are swivelled into the profile groove.



Profile Bars St, heavy-duty are slid into the groove profile.



Profile Bar 5 St



St
Threaded bore max. M5
m = 89.0 g

bright zinc-plated, 1 pce., length 500 mm

0.0.370.56



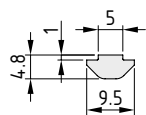
Profile Bar 5 St



St
Threaded bore max. M5
m = 89.0 g

stainless, 1 pce., length 500 mm

0.0.425.18



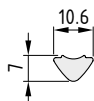
Groove Profile 5 Al



Al, anodized
Threaded bore max. M5
m = 89 g/m

natural, 1 pce., length 2000 mm

0.0.425.82



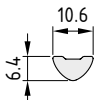
Profile Bar 6 St



St
Threaded bore max. M6
m = 170.0 g

bright zinc-plated, 1 pce., length 500 mm

0.0.431.04



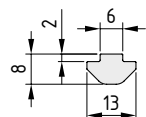
Profile Bar 6 St



St
Threaded bore max. M6
m = 170.0 g

stainless, 1 pce., length 500 mm

0.0.439.03



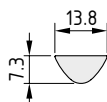
Groove Profile 6 Al



Al, anodized
Threaded bore max. M6
m = 200 g/m

natural, 1 pce., length 2000 mm

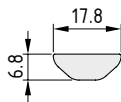
0.0.434.29

**Profile Bar 8 St**

St
Threaded bore max. M8
m = 270.0 g

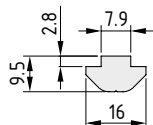
bright zinc-plated, 1 pce., length 500 mm 0.0.026.70

stainless, 1 pce., length 500 mm 0.0.388.48

**Profile Bar 8 St, heavy-duty**

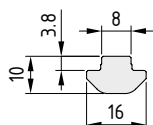
St
Threaded bore max. M8
m = 410.0 g

bright zinc-plated, 1 pce., length 500 mm 0.0.427.23

**Groove Profile 8 Al**

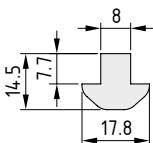
Al, anodized
Threaded bore max. M8
m = 290 g/m

natural, 1 pce., length 2000 mm 0.0.427.39

**Groove Profile 8 St**

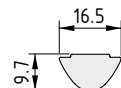
St
Threaded bore max. M8
m = 440.0 g

bright zinc-plated, 1 pce., length 500 mm 0.0.444.32

**Locating Profile 8 Al**

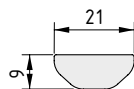
Al, anodized
m = 900.0 g

natural, 1 pce., length 2000 mm 0.0.009.20

**Profile Bar 10 St**

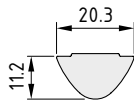
St
Threaded bore max. M10
m = 438.0 g

bright zinc-plated, 1 pce., length 500 mm 0.0.624.81

**Profile Bar 10 St, heavy-duty**

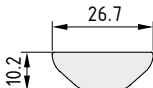
St
Threaded bore max. M10
m = 615.4 g

bright zinc-plated, 1 pce., length 500 mm 0.0.624.85

**Profile Bar 12 St**

St
Threaded bore max. M12
m = 600.0 g

bright zinc-plated, 1 pce., length 500 mm 0.0.003.74

**Profile Bar 12 St, heavy-duty**

St
Threaded bore max. M12
m = 840.0 g

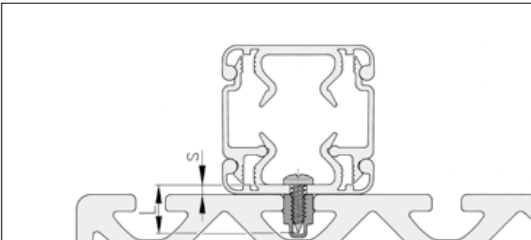
bright zinc-plated, 1 pce., length 500 mm 0.0.003.75

3

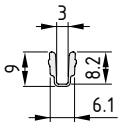


Screw Strips Al

- Screw channel for creating fastenings at any position using Self-Tapping Screws
- Strips are simply pressed into the profile groove



Example of how a cable conduit is secured with Screw Strip 8 Al and Self-Tapping Screws DIN 7981 St 4.2x13. The required screw length L must be selected to match the workpiece thickness s.

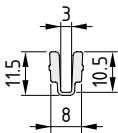


Screw Strip 6 Al



Al, anodized
m = 70 g/m

natural, cut-off max. 2000 mm	0.0.439.17
natural, 1 pce., length 2000 mm	0.0.451.50



Screw Strip 8 Al



Al, anodized
m = 130 g/m

natural, cut-off max. 2000 mm	0.0.411.44
natural, 1 pce., length 2000 mm	0.0.453.47



SCREWS AND UNIVERSAL FASTENERS

4

Screws
Locating Washers
Bracket Flat and Angle Bracket Right-Angled
Adapter Profiles

Screws and universal fasteners

Products in this section

4



Button-Head Screws ISO 7380

- High-strength standard screws for the MB Building Kit System
- Specifically suitable for use in the profile groove

147



Caps, Button-Head Screws

- Protect screws and screw heads from dirt and corrosion
- For use with item Button-Head Screws M6 and M8

151



Hexagon Socket Head Cap Screws

- Screws for universal use
- High property class of 10.9

152



Countersunk Screws DIN 7991

- For screw connections that are flush with the surface of components and panel elements
- Secure hold for panels

154



Locating Washers

- Rear fastening of screws in the groove
- Suitable for use with Button-Head Screws ISO 7390

155



Angle Bracket Zn

- Variable angle brackets for fastening components
- Slots for wide adjustment range

157



Bracket flat and Angle Bracket right-angled

- Universal fastening elements
- For panel elements, light-weight shelving, etc.

158



Flat Bracket 8 D40/D40

- Connect two cylindrical Profiles D40
- For constructing room dividers, partitions and sound protection walls

160



Adapter Profile 12/8

- For fitting elements from Line 8 to a Line 12 groove
- The Adapter Profile makes a Line 12 groove smaller

161



Button-Head Screws ISO 7380

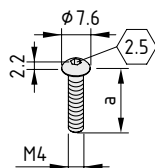
- High-strength standard screws for the MB Building Kit System
- Specifically suitable for use in the profile groove

4

The following applies to all the products below:

St

Property class 10.9 (bright zinc-plated designs)



Button-Head Screw M4x8

a = 8 mm m = 1.1 g

bright zinc-plated, 1 pce.

8.0.001.98

Button-Head Screw M4x10

a = 10 mm m = 1.3 g

bright zinc-plated, 1 pce.

8.0.002.01

Button-Head Screw M4x12

a = 12 mm m = 1.5 g

bright zinc-plated, 1 pce.

8.0.002.04

Button-Head Screw M4x14

a = 14 mm m = 1.6 g

bright zinc-plated, 1 pce.

8.0.002.07

Button-Head Screw M4x16

a = 16 mm m = 1.8 g

bright zinc-plated, 1 pce.

8.0.000.05

Button-Head Screw M4x18

a = 18 mm m = 2.0 g

bright zinc-plated, 1 pce.

8.0.002.10

Button-Head Screw M4x20

a = 20 mm m = 2.2 g

bright zinc-plated, 1 pce.

8.0.002.13

Button-Head Screw M4x22

a = 22 mm m = 2.4 g

bright zinc-plated, 1 pce.

8.0.002.16

Button-Head Screw M4x25

a = 25 mm m = 2.7 g

bright zinc-plated, 1 pce.

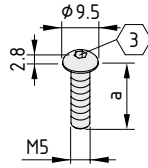
8.0.002.19

Button-Head Screw M4x30

a = 30 mm m = 3.1 g

bright zinc-plated, 1 pce.

8.0.002.22


Button-Head Screw M5x8

a = 8 mm m = 1.8 g

bright zinc-plated, 1 pce.

8.0.000.24

Button-Head Screw M5x10

a = 10 mm m = 2.0 g

bright zinc-plated, 1 pce.

8.0.000.06

Button-Head Screw M5x12

a = 12 mm m = 2.3 g

bright zinc-plated, 1 pce.

8.0.005.45

Button-Head Screw M5x14

a = 14 mm m = 2.6 g

bright zinc-plated, 1 pce.

0.0.417.30

Button-Head Screw M5x16

a = 16 mm m = 2.8 g

bright zinc-plated, 1 pce.

8.0.000.07

Button-Head Screw M5x18

a = 18 mm m = 3.0 g

bright zinc-plated, 1 pce.

8.0.002.25

Button-Head Screw M5x20

a = 20 mm m = 3.2 g

bright zinc-plated, 1 pce.

0.0.404.11

Button-Head Screw M5x25

a = 25 mm m = 3.8 g

bright zinc-plated, 1 pce.

8.0.000.25

Button-Head Screw M5x30

a = 30 mm m = 4.4 g

bright zinc-plated, 1 pce.

8.0.002.31

Button-Head Screw M5x35

a = 35 mm m = 5.0 g

bright zinc-plated, 1 pce.

8.0.002.34

Button-Head Screw M5x40

a = 40 mm m = 5.6 g

bright zinc-plated, 1 pce.

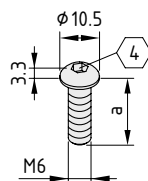
0.0.391.26

Button-Head Screw M5x45

a = 45 mm m = 6.2 g

bright zinc-plated, 1 pce.

8.0.005.24


Button-Head Screw M6x10

a = 10 mm m = 2.8 g

bright zinc-plated, 1 pce.

8.0.002.37

Button-Head Screw M6x12

a = 12 mm m = 3.2 g

bright zinc-plated, 1 pce.

8.0.002.40

Button-Head Screw M6x14

a = 14 mm m = 3.6 g

bright zinc-plated, 1 pce. 0.0.417.26

Button-Head Screw M6x16

a = 16 mm m = 3.8 g

bright zinc-plated, 1 pce. 8.0.000.63

Button-Head Screw M6x18

a = 18 mm m = 4.2 g

bright zinc-plated, 1 pce. 8.0.002.45

Button-Head Screw M6x20

a = 20 mm m = 4.5 g

bright zinc-plated, 1 pce. 8.0.000.08

Button-Head Screw M6x22

a = 22 mm m = 4.9 g

bright zinc-plated, 1 pce. 8.0.002.48

stainless, 1 pce. 8.0.005.56

Button-Head Screw M6x25

a = 25 mm m = 5.4 g

bright zinc-plated, 1 pce. 8.0.000.01

Button-Head Screw M6x30

a = 30 mm m = 6.2 g

bright zinc-plated, 1 pce. 8.0.000.15

Button-Head Screw M6x35

a = 35 mm m = 7.1 g

bright zinc-plated, 1 pce. 8.0.000.16

Button-Head Screw M6x40

a = 40 mm m = 7.9 g

bright zinc-plated, 1 pce. 8.0.001.15

Button-Head Screw M6x45

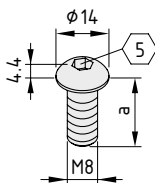
a = 45 mm m = 8.8 g

bright zinc-plated, 1 pce. 8.0.002.53

Button-Head Screw M6x50

a = 50 mm m = 9.6 g

bright zinc-plated, 1 pce. 8.0.002.56

**Button-Head Screw M8x10**

a = 10 mm m = 4.4 g

bright zinc-plated, 1 pce. 8.0.000.17

Button-Head Screw M8x12

a = 12 mm m = 5.1 g

bright zinc-plated, 1 pce. 8.0.002.59

Button-Head Screw M8x14

a = 14 mm m = 6.1 g

bright zinc-plated, 1 pce. 8.0.000.18

Button-Head Screw M8x16		
a = 16 mm	m = 7.2 g	
bright zinc-plated, 1 pce.		8.0.000.19
Button-Head Screw M8x18		
a = 18 mm	m = 7.4 g	
bright zinc-plated, 1 pce.		8.0.000.02
Button-Head Screw M8x20		
a = 20 mm	m = 8.6 g	
bright zinc-plated, 1 pce.		8.0.009.11
Button-Head Screw M8x25		
a = 25 mm	m = 10.1 g	
bright zinc-plated, 1 pce.		8.0.000.04
Button-Head Screw M8x30		
a = 30 mm	m = 12.0 g	
bright zinc-plated, 1 pce.		8.0.000.09
Button-Head Screw M8x35		
a = 35 mm	m = 13.9 g	
bright zinc-plated, 1 pce.		8.0.002.65
Button-Head Screw M8x40		
a = 40 mm	m = 15.8 g	
bright zinc-plated, 1 pce.		8.0.000.10
Button-Head Screw M8x45		
a = 45 mm	m = 17.9 g	
bright zinc-plated, 1 pce.		8.0.000.20
Button-Head Screw M8x50		
a = 50 mm	m = 19.6 g	
bright zinc-plated, 1 pce.		8.0.002.68
Button-Head Screw M8x55		
a = 55 mm	m = 21.5 g	
bright zinc-plated, 1 pce.		8.0.002.71
Button-Head Screw M8x60		
a = 60 mm	m = 23.5 g	
bright zinc-plated, 1 pce.		8.0.000.11
Button-Head Screw M8x80		
a = 80 mm	m = 27.7 g	
bright zinc-plated, 1 pce.		8.0.000.12

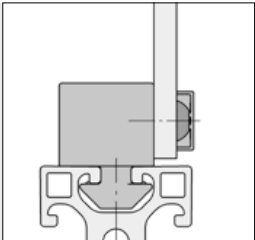


Cap, Button-Head Screw

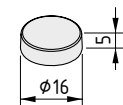
- Protect screws and screw heads from dirt and corrosion
- For use with item Button-Head Screws M6 and M8



The Caps cover the hexagon socket of the screw head and the gap around the screw connection. They are suitable for Button-Head Screws and button-head flange screws.



Application of the Cap, Button-Head Screw M6 on Button-Head Screws used to fasten panel elements to Multiblocks.



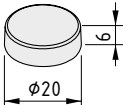
Cap, Button-Head Screw M6



PA-GF
m = 0.4 g

grey similar to RAL 7042, 1 pce.

0.0.606.61



Cap, Button-Head Screw M8



PA-GF
m = 0.9 g

grey similar to RAL 7042, 1 pce.

0.0.606.67



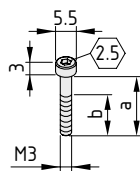
Hexagon Socket Head Cap Screws

- Screws for universal use
- Various diameters and lengths
- High property class of 10.9

The following applies to all the products below:

St

property class 10.9

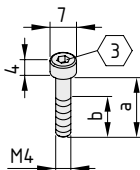


Hexagon Socket Head Cap Screw DIN 912 M3x50

a = 50 mm b = 18 mm m = 2.9 g

black, 1 pce.

8.0.004.61



Hexagon Socket Head Cap Screw DIN 912 M3x60

a = 60 mm b = 18 mm m = 3.3 g

black, 1 pce.

8.0.004.83

Hexagon Socket Head Cap Screw DIN 912 M4x14

a = 14 mm b = 14 mm m = 2.0 g

bright zinc-plated, 1 pce.

8.0.000.21

Hexagon Socket Head Cap Screw DIN 912 M4x16

a = 16 mm b = 16 mm m = 2.1 g

bright zinc-plated, 1 pce.

8.0.000.28

Hexagon Socket Head Cap Screw DIN 912 M4x18

a = 18 mm b = 18 mm m = 2.2 g

bright zinc-plated, 1 pce.

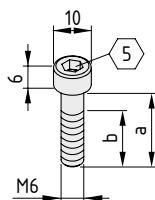
8.0.000.22

Hexagon Socket Head Cap Screw DIN 912 M4x20

a = 20 mm b = 20 mm m = 2.4 g

bright zinc-plated, 1 pce.

8.0.000.23



Hexagon Socket Head Cap Screw DIN 912 M6x12

a = 12 mm b = 12 mm m = 5.0 g

bright zinc-plated, 1 pce.

8.0.007.16

Hexagon Socket Head Cap Screw DIN 912 M6x14

a = 14 mm b = 14 mm m = 5.4 g

bright zinc-plated, 1 pce.

8.0.007.99

Hexagon Socket Head Cap Screw DIN 912 M6x20

a = 20 mm b = 20 mm m = 6.0 g

bright zinc-plated, 1 pce.

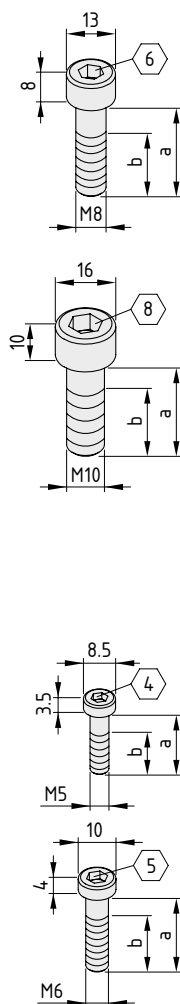
8.0.000.92

Hexagon Socket Head Cap Screw DIN 912 M6x28

a = 28 mm b = 24 mm m = 7.5 g

bright zinc-plated, 1 pce.

0.0.411.59

**Hexagon Socket Head Cap Screw DIN 912 M6x100**

a = 100 mm b = 24 mm m = 23.0 g

bright zinc-plated, 1 pce.

8.0.004.70

Hexagon Socket Head Cap Screw DIN 912 M6x140

a = 140 mm b = 24 mm m = 31.5 g

bright zinc-plated, 1 pce.

8.0.004.74

Hexagon Socket Head Cap Screw DIN 912 M8x60

a = 60 mm b = 28 mm m = 29.0 g

bright zinc-plated, 1 pce.

8.0.006.36

Hexagon Socket Head Cap Screw DIN 912 M8x180

a = 180 mm b = 28 mm m = 66.5 g

bright zinc-plated, 1 pce.

8.0.008.88

Hexagon Socket Head Cap Screw DIN 912 M10x60

a = 60 mm b = 32 mm m = 44.0 g

bright zinc-plated, 1 pce.

8.0.003.98

Hexagon Socket Head Cap Screw DIN 912 M10x100

a = 100 mm b = 32 mm m = 68.5 g

bright zinc-plated, 1 pce.

8.0.004.47

Hexagon Socket Head Cap Screw DIN 912 M10x140

a = 140 mm b = 32 mm m = 92.5 g

bright zinc-plated, 1 pce.

8.0.004.50

Hexagon Socket Head Cap Screw DIN 6912 M5x8

a = 8 mm b = 8 mm m = 2.6 g

bright zinc-plated, 1 pce.

8.0.004.34

Hexagon Socket Head Cap Screw DIN 6912 M6x40

a = 40 mm b = 24 mm m = 9.5 g

bright zinc-plated, 1 pce.

8.0.007.43



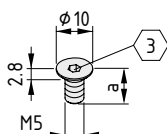
Countersunk Screws DIN 7991

- For screw connections that are flush with the surface of components and panel elements

The following applies to all the products below:

St

property class 10.9

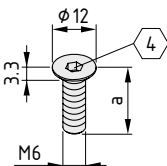


Countersunk Screw DIN 7991 M5x10

a = 10 mm m = 1.8 g

black, 1 pce.

8.0.001.84

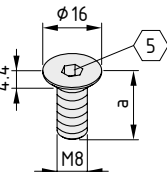


Countersunk Screw DIN 7991 M6x10

a = 10 mm m = 2.7 g

black, 1 pce.

8.0.007.48



Countersunk Screw DIN 7991 M6x14

a = 14 mm m = 3.2 g

bright zinc-plated, 1 pce.

8.0.005.17

Countersunk Screw DIN 7991 M8x14

a = 14 mm m = 7.1 g

black, 1 pce.

8.0.007.07

Countersunk Screw DIN 7991 M8x16

a = 16 mm m = 7.4 g

bright zinc-plated, 1 pce.

8.0.001.09

Countersunk Screw DIN 7991 M8x18

a = 18 mm m = 7.7 g

black, 1 pce.

8.0.001.85

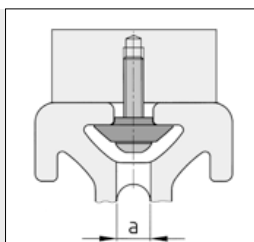


Locating Washers

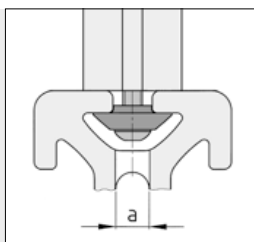
- Rear fastening of screws in the groove
- Suitable for use with Button-Head Screws ISO 7390



4

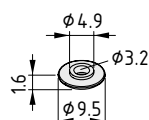


Locating Washers can be used to conceal the component securing mechanism (screw head in profile groove, thread in component).



In addition, the Locating Washers allow Standard Connections (without anti-torsion element) between profiles of different Lines or they may be used simply to centre attachments.

Locating Washer	$a_{min.}$
5 D3	Ø 3.0
5 D4	Ø 3.5
6 D3	Ø 3.0
6 D4	Ø 3.5
6 D5	Ø 4.0
8 D4	Ø 3.5
8 D5	Ø 4.0
8 D6	Ø 5.0

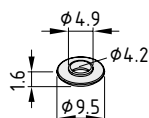


Locating Washer 5 D3



St
m = 0.6 g
bright zinc-plated, 1 pce.

0.0.444.48

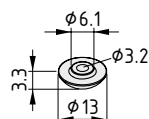


Locating Washer 5 D4



St
m = 0.6 g
bright zinc-plated, 1 pce.

0.0.444.47

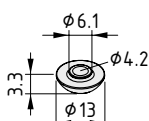


Locating Washer 6 D3



St
m = 2.3 g
bright zinc-plated, 1 pce.

0.0.444.46

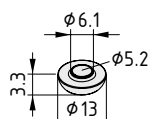


Locating Washer 6 D4



St
m = 2.3 g
bright zinc-plated, 1 pce.

0.0.444.45

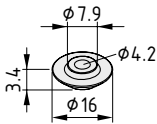


Locating Washer 6 D5

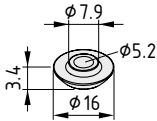


St
m = 2.4 g
bright zinc-plated, 1 pce.

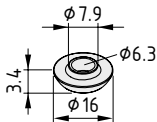
0.0.444.44



Locating Washer 8 D4	8
St	
m = 3.7 g	
bright zinc-plated, 1 pce.	0.0.444.43



Locating Washer 8 D5	8
St	
m = 3.8 g	
bright zinc-plated, 1 pce.	0.0.444.42

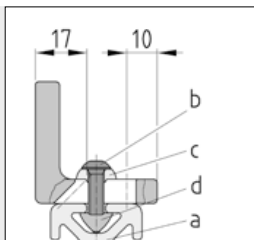


Locating Washer 8 D6	8
St	
m = 3.8 g	
bright zinc-plated, 1 pce.	0.0.444.41

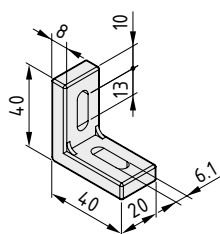


Angle Bracket Zn

- Variable angle bracket for fastening components
- Slots for wide adjustment range



Profile	a	5	6	8	10	12
Screw ISO 7380	b	M5x16	M5x20	M6x20	M6x22	M6x25
	c	Locating Washer 6 D5		Washer DIN 9021-6,4		
T-Slot Nut	d	5 St M5	6 St M5	8 St M6	10 St M6	12 St M6

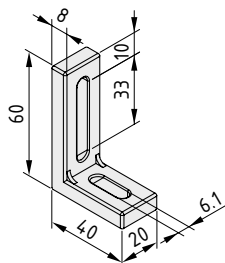


Bracket 40x40x20 Zn

Die-cast zinc
m = 63.0 g

black, 1 pce.

0.0.474.60

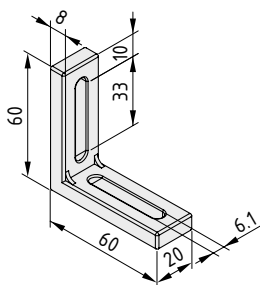


Bracket 60x40x20 Zn

Die-cast zinc
m = 77.0 g

black, 1 pce.

0.0.474.61

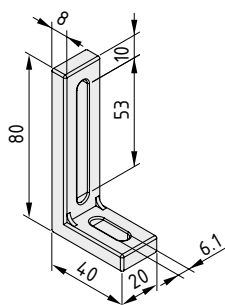


Bracket 60x60x20 Zn

Die-cast zinc
m = 92.0 g

black, 1 pce.

0.0.474.62



Bracket 80x40x20 Zn

Die-cast zinc
m = 92.0 g

black, 1 pce.

0.0.474.63

4



Bracket flat and Angle Bracket right-angled

- Universal fastening elements
- For panel elements, lightweight shelving, etc.

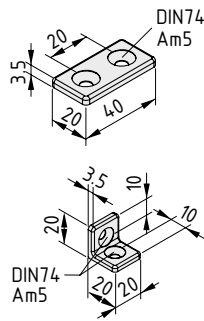


Fastening elements suitable for connecting and attaching cable conduits, Support and Wall Profiles, panel elements or any other components.

When connecting Bracket flat and Angle Bracket right-angled to components without profile grooves, these must be provided with appropriate through bores or threads.



Angle Bracket 8 40 right-angled can also be used to support a table top on a profile structure.



Bracket 5 20 flat



St
m = 16.4 g

black, 1 pce.

0.0.464.23

Angle Bracket 5 20 right-angled



St
m = 15.0 g

black, 1 pce.

0.0.464.22

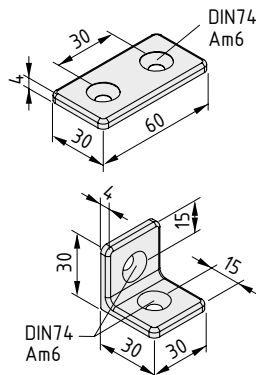
Fastening Set 5 for Bracket / Angle Bracket 5 20 / profile side for Hinge 5 PA



Countersunk Screw DIN 7991-M5x8, St, black
T-Slot Nut 5 St M5, bright zinc-plated
m = 2.5 g

1 set

0.0.370.70



Bracket 6 30 flat



St
m = 38.4 g

black, 1 pce.

0.0.459.11

Angle Bracket 6 30 right-angled



St
m = 37.0 g

black, 1 pce.

0.0.459.12

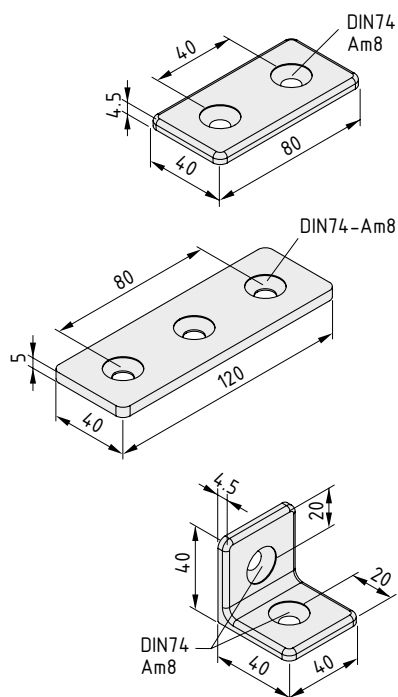
Fastening Set 6 for Bracket / Angle Bracket 6 30



Countersunk Screw DIN 7991-M6x10, St, black
T-Slot Nut 6 St M6, bright zinc-plated
m = 7.0 g

1 set

0.0.459.26

**Bracket 8 40 flat**

St

m = 91.1 g

black, 1 pce.

0.0.196.86

Bracket 8 120x40 flat

St

m = 173.0 g

black, 1 pce.

0.0.640.54

Angle Bracket 8 40 right-angled

St

m = 90.0 g

black, 1 pce.

0.0.196.87

Fastening Set 8 for Angle Bracket 8 40 / Bracket 8 40 flat

Countersunk Screw DIN 7991-M8x14, St, black

T-Slot Nut 8 St M8, bright zinc-plated

m = 16.0 g

1 set

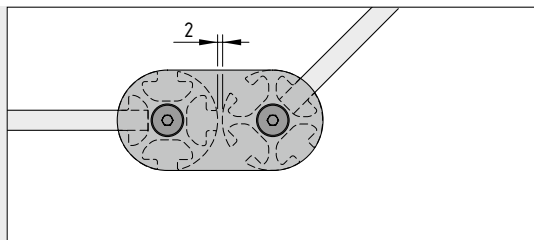
0.0.350.17

4



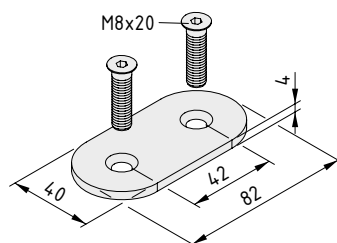
Flat Bracket 8 D40/D40

- Connect two cylindrical Profiles 8 D40
- For constructing room dividers, partitions and sound protection walls



Note

You can create partition elements made from Profiles D40 using just the accessories returned by a search for "D40" in the online catalogue at www.item.info.



Bracket 8 D40/D40 flat



St
2 Countersunk Screws M8x20, St, bright zinc-plated
m = 102.0 g

white aluminium, similar to RAL 9006, 1 set

0.0.628.63



Adapter Profile 12/8

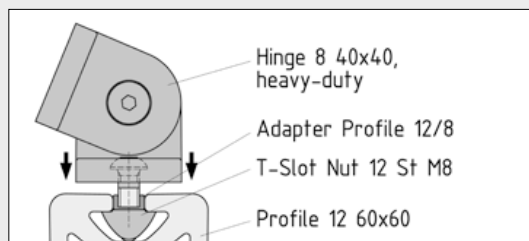
- For fitting elements from Line 8 to a Line 12 groove
- The Adapter Profile makes a Line 12 groove smaller



4

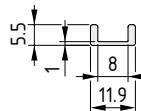
Adapter Profile with and without drilled holes for fastening various attachments from Line 8 to a Line 12 groove.

Hinges, heavy-duty hinges, multiblocks and many other elements are equipped with anti-torsion elements and centring aids that are intended for use with the Line 8 groove. These can be attached to Line 12 profiles using Adapter Profile 12/8 without losing the centring effect.



Application example:

Connecting a Hinge 8 40x40, heavy duty with a Profile 12 using Adapter Profile 12/8 Al. The anti-torsion features of the heavy-duty Hinge in the groove remain effective.



Adapter Profile 12/8 Al



Al, anodized
m = 75 g/m

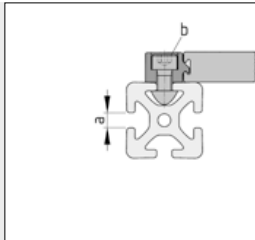
natural, 1 pce., length 2000 mm

0.0.003.24

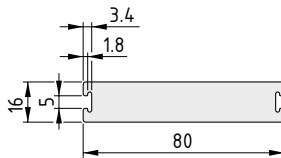
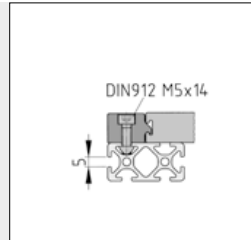


Adapter Plate Profiles

- For fastening functional elements to profile constructions
- Secure hold thanks to clamping elements
- Can be machined to suit requirements



a	b Hexagon Socket Head Cap Screw	Torque M
5	DIN 912 M5x14	4.5 Nm
6	DIN 912 M6x16	10.0 Nm
8	DIN 912 M8x16	10.0 Nm



Adapter Plate Profile 80x16 N5

Al, anodized

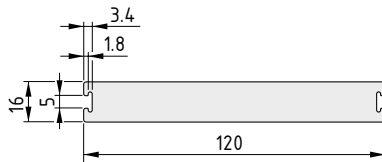
m = 3.34 g/m

natural, cut-off max. 2000 mm

0.0.444.81

natural, 1 pce., length 2000 mm

0.0.444.06



Adapter Plate Profile 120x16 N5

Al, anodized

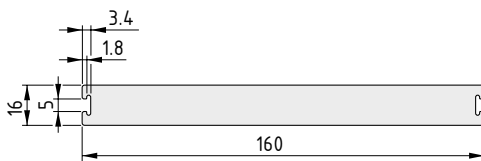
m = 5.07 g/m

natural, cut-off max. 2000 mm

0.0.444.82

natural, 1 pce., length 2000 mm

0.0.444.07



Adapter Plate Profile 160x16 N5

Al, anodized

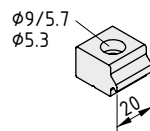
m = 6.79 g/m

natural, cut-off max. 2000 mm

0.0.444.83

natural, 1 pce., length 2000 mm

0.0.444.08



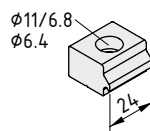
Adapter Plate Clamp 5 N5

Al, anodized

m = 15.0 g

natural, 1 pce.

0.0.444.03



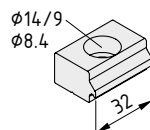
Adapter Plate Clamp 6 N5

Al, anodized

m = 17.0 g

natural, 1 pce.

0.0.444.04



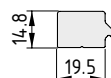
Adapter Plate Clamp 8 N5

Al, anodized

m = 22.0 g

natural, 1 pce.

0.0.444.05



Adapter Plate Clamping Profile N5

Al, anodized

m = 0.82 g/m

natural, cut-off max. 2000 mm

0.0.444.84

natural, 1 pce., length 2000 mm

0.0.444.09

PANEL FASTENERS

5

Fastenings for Panels in the Groove
Fastenings for Panels on the Groove

Panel fasteners Products in this section

5



Cover Profiles PP

- Ideal for covering grooves or fixing panels
- Available in several colours

165



Lip Seals

- Durable elastic hold for panel elements
- Cover edges to prevent dirt and dampness getting in

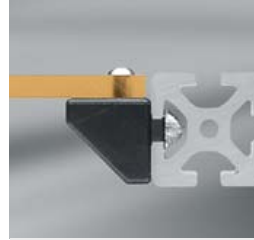
167



Multiblocks PA

- Variable thanks to two contact faces and height adjuster
- Screw attachment ensures a firm hold

169



Multiblocks Zn

- Exceptionally stable fasteners
- Easy adjustment for material thickness

172



Safety Fastening Set Multiblock 8

- The captive panel fastener
- For use with Multiblock 8 PA and 8 Zn

173



Multi Bracket 12 Zn

- For fastening panel elements to Profiles 12
- Simple adjustment to the height of the element

174



Quick Multiblocks

- Prevent inadvertent opening of fixings
- Secure panel fastening – cannot be released without being destroyed

176



Clamp Multiblocks PA

- For fastening panels on the groove without the need for machining
- Flexible locating lug securely holds panels of different thicknesses

178



Panel-Clamping Strips

- Retrofit panels in closed frames
- Holds all types of panels on the groove

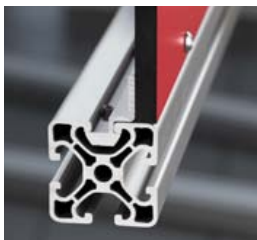
180



Double Panel Profiles

- For building double-walled frame elements
- Straightforward assembly

182



Rebate Profiles Al

- Flexible panel fastening anchored in the groove
- Also suitable as a rebate strip for doors

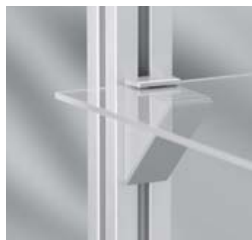
185



Panel/Glass Clamp

- Fasten panel elements without needing to machine them
- Continuous air gap between frame and panel

188



Support Arm X 6-8

- Shelf support with clamping system for the panel element
- Clean, elegant design

190



Table-Top Fastening Set

- Secure table tops to profile frames
- Self-tapping screws for all types of wooden panels

191



Flange

- Mounting plate for table columns
- Used with Column Profile D110

192



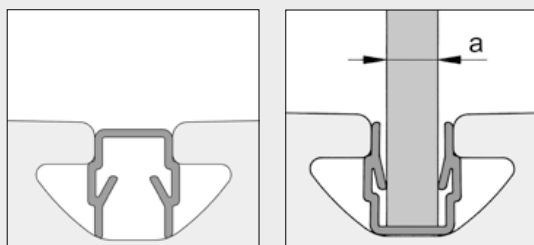
Cover Profiles PP

The multi-purpose solution

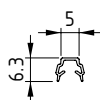
- Ideal for covering grooves or fixing panels
- Available in several colours
- Also ESD-safe



Cover Profile can be used as a cover for the profile groove or as a panel-fixing profile for panel elements.



Cover Profile	a [mm]
5	1.5–2.0
6	2.0–3.5
8 (ESD)	4.0–5.5
10 (ESD)	4.0–8.0
12	6.0–9.5



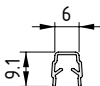
Cover Profile 5



PP/TPE

m = 13.5 g/m

natural, 1 pce., length 2000 mm	0.0.391.73
black, 1 pce., length 2000 mm	0.0.391.74
grey similar to RAL 7042, 1 pce., length 2000 mm	0.0.639.02



Cover Profile 6



PP/TPE

m = 20.4 g/m

natural, 1 pce., length 2000 mm	0.0.419.48
black, 1 pce., length 2000 mm	0.0.431.01



Cover Profile 8



PP/TPE

m = 26 g/m

natural, 1 pce., length 2000 mm	0.0.422.23
black, 1 pce., length 2000 mm	0.0.422.26
green, similar to RAL 6016, 1 pce., length 2000 mm	0.0.489.44
red, similar to RAL 3003, 1 pce., length 2000 mm	0.0.489.46
yellow, similar to RAL 1018, 1 pce., length 2000 mm	0.0.489.43
blue, similar to RAL 5010, 1 pce., length 2000 mm	0.0.481.01
grey similar to RAL 7042, 1 pce., length 2000 mm	0.0.489.45



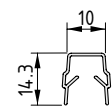
Cover Profile 8 ESD



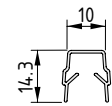
PP/TPE


m = 26 g/m

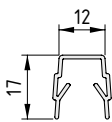
black, 1 pce., length 2000 mm	0.0.617.80
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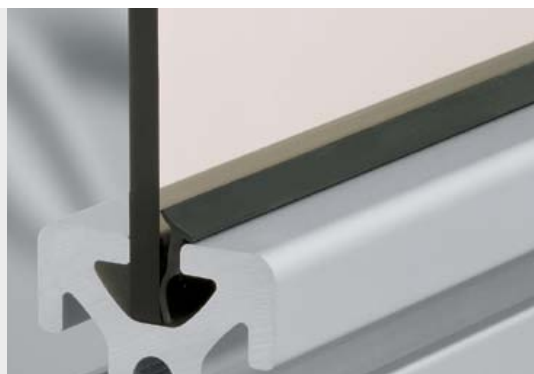
Cover Profile 10	
PP/TPE m = 31.5 g/m	
natural, 1 pce., length 2000 mm	0.0.632.10



Cover Profile 10 ESD	
PP/TPE m = 31.5 g/m	
black, 1 pce., length 2000 mm	0.0.632.04



Cover Profile 12	
PP/TPE m = 58 g/m	
natural, 1 pce., length 2000 mm	0.0.005.08
black, 1 pce., length 2000 mm	0.0.005.28



Lip Seals

Long-term elasticity and resistance

- Fix panel elements in the groove
- Neatly cover over edges
- Resistant to cleaning agents

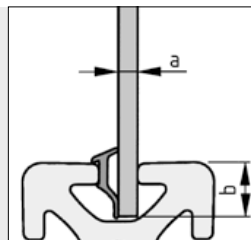
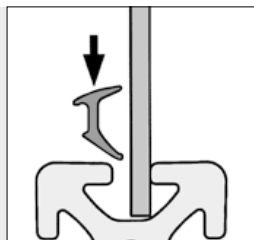


5



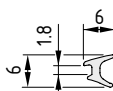
The Assembly Tool facilitates the process of pressing the Lip Seal into the profile groove in the right orientation.

Assembly Tool Lip Seal 587



The Lip Seals are best wetted with soapy water prior to assembly to ensure they are fitted easily and correctly. Careful pressure must be applied to lock them into the profile groove.

Lip Seal	a [mm]	b [mm]
5 2-3	2-3	5.3
6 2-4	2-4	8.7
8 2-4	2-4	11.2
8 4-6	4-6	11.2
12 6-8	6-8	17.3



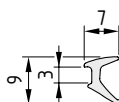
Lip Seal 5 2-3mm



TPE
m = 13 g/m

black, 1 roll length 20 m 0.0.437.12

grey, similar to RAL 7040, 1 roll length 20 m 0.0.484.39



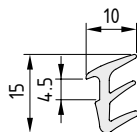
Lip Seal 6 2-4mm



TPE
m = 20 g/m

black, 1 roll length 20 m 0.0.439.20

grey, similar to RAL 7040, 1 roll length 20 m 0.0.491.08



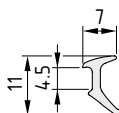
Lip Seal 8 2-4mm



TPE
m = 52 g/m

black, 1 roll length 20 m 0.0.436.85

grey, similar to RAL 7040, 1 roll length 20 m 0.0.489.91



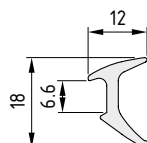
Lip Seal 8 4-6mm



TPE
m = 26 g/m

black, 1 roll length 20 m 0.0.436.88

grey, similar to RAL 7040, 1 roll length 20 m 0.0.489.94



Lip Seal 12 6-8mm

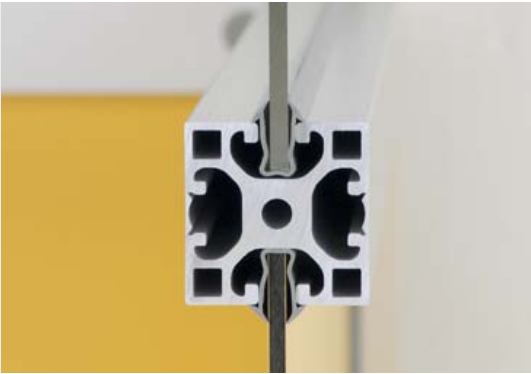


TPE
m = 58 g/m

black, 1 roll length 20 m 0.0.005.33

grey, similar to RAL 7040, 1 roll length 20 m 0.0.005.37

5



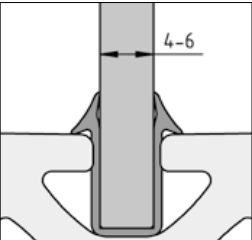
Double-Lip Seal 8 4-6mm

- For panels made from plastic or safety glass
- Prevent direct contact with the aluminium profile
- Absorb vibrations and seal the groove

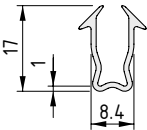


Double-Lip Seal 8 is used for fitting panel elements directly into grooves of Profiles 8. It provides a sealing function and prevents direct contact with the aluminium profile. Double-Lip Seal 8 completely encloses panel elements of thickness 4 to 6 mm in the profile groove.

Double-Lip Seal 8 4-6mm is ideal for all types of panel elements – including those made of plastic or safety glass.



N.B.: Double-Lip Seal 8 is best installed using soapy water. It is then slipped onto the panel element and pushed into the profile groove. The profile frame is assembled around the panel element.



Double-Lip Seal 8 4-6mm



TPE	
m = 50 g/m	
black, 1 roll length 20 m	0.0.495.08
grey similar to RAL 7042, 1 roll length 20 m	0.0.611.40

Multiblocks PA

- Variable thanks to two contact faces and height adjuster
- Screw attachment ensures a firm hold for panel elements
- One fastening – four positions

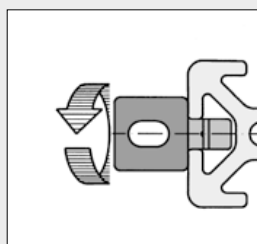


5

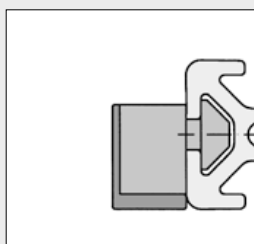
Multiblock PA is inserted into the profile groove at any position. Light cladding panels and panel elements made from Acrylic Glass, Plastic or Compound Material must be provided with a bore at the appropriate location and screwed to the Multiblock.

Multiblock PA has two mounting locations plus a height adjuster which combine to give four offset positions from the edge of the profile. This allows different distances to be set to the edge of the profile so that panel elements of varying thicknesses can be screwed on flush.

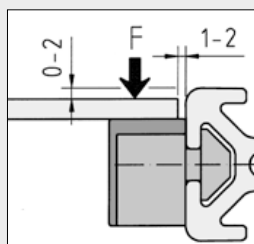
The panels are secured by screw connection with the square nut inserted in the Multiblock. This nut can be moved within a slot, a fact that allows a considerable degree of tolerance for the position of the bores in the panel element.



Twisting the Multiblock PA into the profile groove. The Multiblocks can be moved within the groove in order to align them with the bore in the panel element.

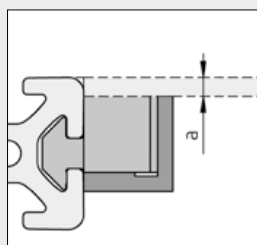


The contact face can be varied thanks to two different mounting orientations and the movable height adjuster.

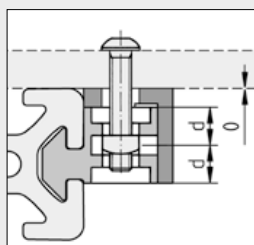
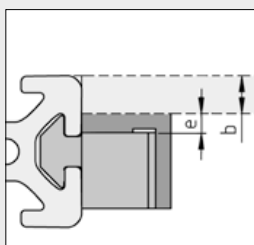


Recommendation for mounting the panel element and permissible loading forces for Multiblocks PA.

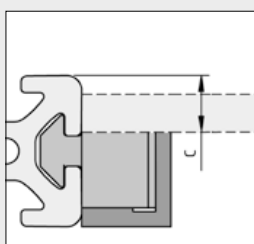
Multiblock	F [N]
5 PA	100
6 PA	150
8 PA	250
10 PA	400



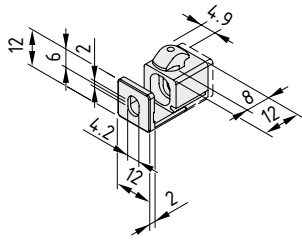
Possible offset distances between the mounting locations and the edge of the profile.



Multiblock	5 PA	6 PA	8 PA	10 PA
a [mm]	2	3	5	5
b [mm]	4	6	10	10
c [mm]	6	9	15	15
d [mm]	8	9	10	15
e [mm]	2	3	5	5

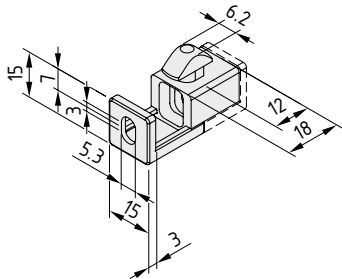


The length of the fastening screw depends on the thickness of the panel element and use of the height adjuster.


Multiblock 5 PA

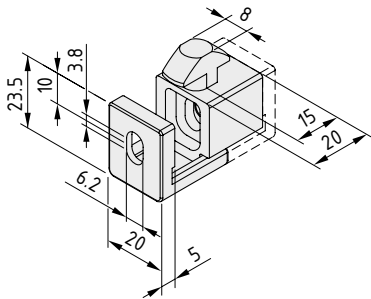

Basic unit and height adjuster, PA-GF
 Square nut DIN 562-M4, St, bright zinc-plated
 m = 2.0 g

black, 1 pce.	0.0.370.71
grey, 1 pce.	0.0.641.58


Multiblock 6 PA

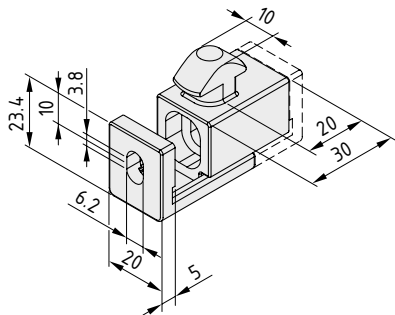

Basic unit and height adjuster, PA-GF
 Square nut DIN 557-M5, St, bright zinc-plated
 m = 6.0 g

black, 1 pce.	0.0.419.58
grey, 1 pce.	0.0.635.68


Multiblock 8 PA


Basic unit and height adjuster, PA-GF
 Square nut DIN 557-M6, St, bright zinc-plated
 Spring clip, St, bright zinc-plated
 m = 14.0 g

black, 1 pce.	0.0.026.72
grey, 1 pce.	0.0.630.28


Multiblock 10 PA


Basic unit and height adjuster, PA-GF
 Square nut DIN 557-M6, St, bright zinc-plated
 Spring clip, St, bright zinc-plated
 m = 19.1 g

grey, 1 pce.	0.0.635.09
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Multiblocks X 8 PA

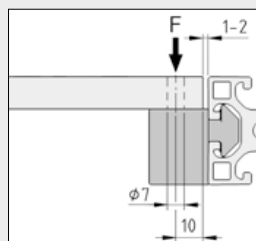
- Compatible with Profiles X
- Easy-to-use fastening for pre-drilled panel elements
- Variable thanks to two contact faces
- Screw attachment ensures a firm hold for panel elements



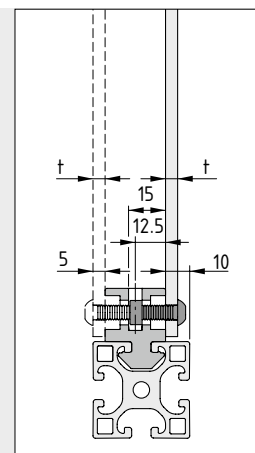
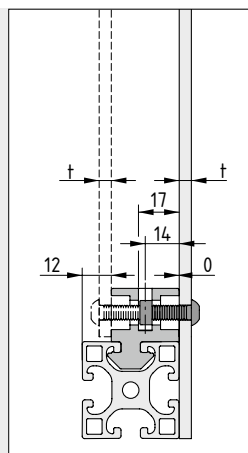
The shape and colour of Multiblocks X 8 PA matches Profiles X 8. Multiblocks X 8 PA each have two contact faces for panel elements of different thicknesses.



To insert Multiblock X PA in profiles with closed grooves, it is recommended to remove the groove cover at the relevant location using a counterbore. The Step Drill, Universal Connection 6 (Art. No. 0.0.431.19) is ideal for this purpose. The required counterbore depth is just 2 mm!

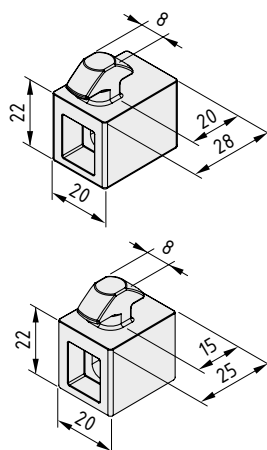


Recommendation for mounting the panel element. The permissible load for Multiblocks X 8 PA is $F = 250 \text{ N}$.



The length of the fastening screw depends on the thickness of the panel element.

When using a thick panel element, the Multiblock can be secured from the inside by drilling and tapping a blind hole in the panel. In such a case, the square nut can be removed from the Multiblock.



Multiblock X 8 PA 0/12 mm



Basic unit, PA-GF
Spring, St, stainless
Square nut DIN 557-M6, St, bright zinc-plated
 $m = 18.0 \text{ g}$
grey, 1 pce.

0.0.603.14

Multiblock X 8 PA 5/10 mm



Basic unit, PA-GF
Spring, St, stainless
Square nut DIN 557-M6, St, bright zinc-plated
 $m = 15.0 \text{ g}$
grey, 1 pce.

0.0.603.15



Multiblocks Zn

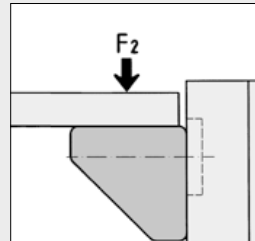
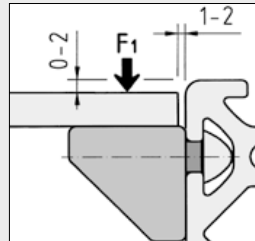
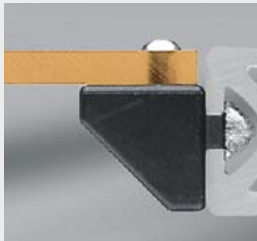
High-strength panel fastening

- Exceptionally stable fixings
- Panel elements are securely held by screw fixings
- Easy adjustment for material thickness



For fixing panel elements to profile grooves, particularly where heavy loads are involved. Multiblock Zn is screwed to the profile groove with a screw and T-Slot Nut. The anti-torsion pin, which is adjustable in millimetre increments, ensures flush attachment for panels of

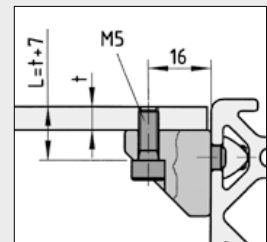
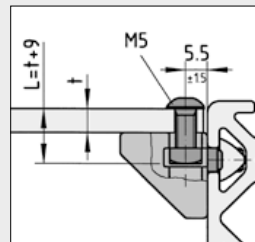
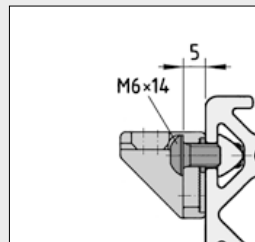
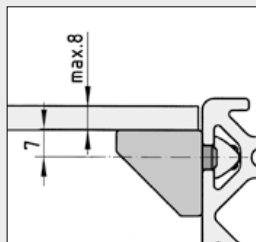
different thicknesses. The panel elements must be drilled in the appropriate position to line up with either the through bore or the square nut (which is secured against falling out by a leaf spring) incorporated in the Multiblock.



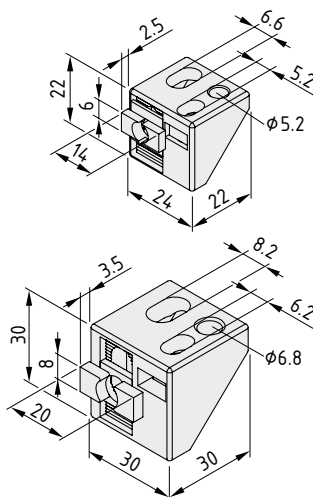
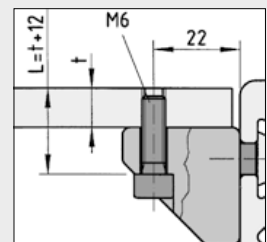
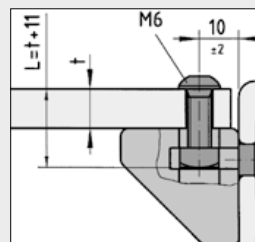
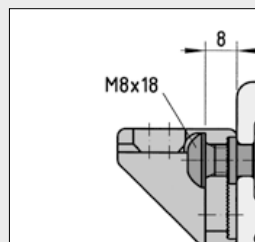
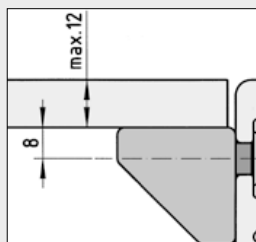
	F_1 [N]	F_2 [N]
	1,000	500
	2,000	1,000

Recommended mounting arrangement and load data across and along the groove.

Multiblock 6 Zn



Multiblock 8 Zn



Multiblock 6 Zn

Basic unit and locating lug, die-cast zinc, black
Square nut DIN 557-M5, St, bright zinc-plated
Leaf spring, St, stainless
 $m = 44.0$ g

1 pce.

0.0.439.85

Multiblock 8 Zn

Basic unit and locating lug, die-cast zinc, black
Square nut DIN 557-M6, St, bright zinc-plated
Leaf spring, St, stainless
 $m = 66.0$ g

1 pce.

0.0.373.23



Safety Fastening Set Multiblock 8

Safe and secure.

- For use with Multiblock 8 PA and 8 Zn
- Creates a permanently joined unit after fitting



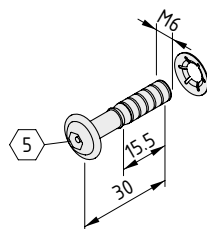
5

Panel fastening in line with Machinery Directive 2006/42/EC: Safety Fastening Set Multiblock 8. After fitting, the screw and retaining spring form a single, permanently joined unit that is secured in the through hole. You will always be able to tell when a screw has become loose by the position of the panel element.

Suitable for use with Multiblocks 8 PA and Zn and with Multi Bracket 12 Zn for panel thicknesses from 2 to 10 mm.

Security L-Key Set

596



Safety Fastening Set Multiblock 8



Security flanged button head screw M6x30, St, bright zinc-plated

Retaining spring M6, St, stainless

m = 7.5 g

1 set

0.0.626.63



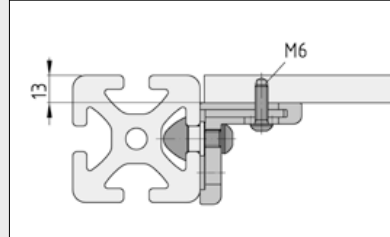
Multi Bracket 12 Zn

- For fastening panel elements to Profiles 12
- Simple adjustment to the height of the element

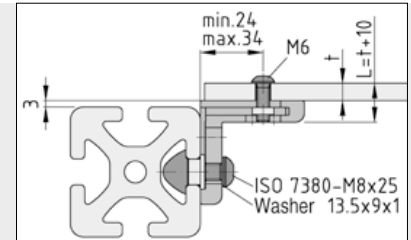


Universal element for fastening panels to Line 12 profiles. Since the locating lug can be adjusted in various positions within the bracket across the profile groove, panels can be positioned virtually flush with the outer face of the profile irrespective of their thickness.

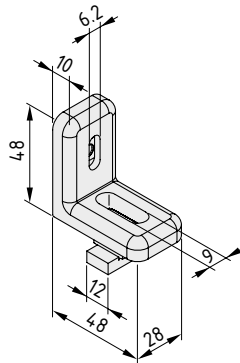
Multi Bracket 12 can be moved along the profile groove so that it can be easily aligned with the hole in the panel element.



The panel element with through hole is secured by means of an M6 bolt fitted into the square nut of Multi Bracket 12 Zn.



If the panel element is of sufficient thickness, Multi Bracket 12 can also be secured internally so that the fastening is not visible and cannot be detached.



Multi Bracket 12 Zn



Bracket, die-cast zinc, RAL9006 white aluminium
Locating lug, die-cast zinc, RAL9006 white aluminium
Square nut DIN 562-M6, St, bright zinc-plated
Retaining plate, St
m = 120.0 g

1 set

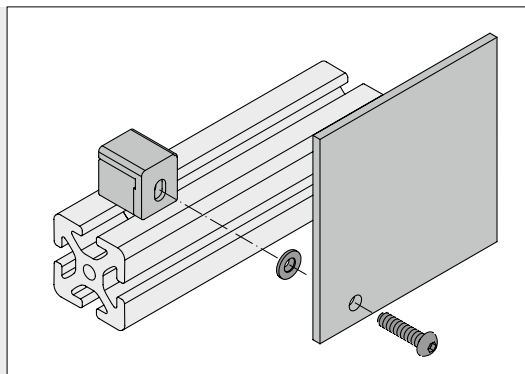
0.0.007.18



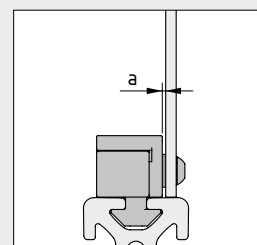
Anti-Loss Washer

- Hold screws securely and permanently in their holes
- Simply push on and screw into place
- Can be easily combined with Multiblocks or Angle Brackets

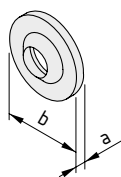
Create captive screws for a whole range of fasteners such as Multiblocks and Angle Brackets using the universal Anti-Loss Washers (M4, M5 and M6). Simply place these onto a screw that has been inserted into its through hole and, when the screw connection is dismantled, the screw will be held safely and securely in the through hole of the panel element.



A mounting aid and safety device in one.



Note: the thickness of the washer (a) determines the position of the panel element.



Anti-Loss Washer M4

PA

a = 1.2 mm b = 9.0 mm m = 0.1 g

natural, 1 pce.

0.0.627.71

Anti-Loss Washer M5

PA

a = 1.65 mm b = 10.1 mm m = 0.1 g

natural, 1 pce.

0.0.627.70

Anti-Loss Washer M6

PA

a = 1.3 mm b = 12.5 mm m = 0.2 g

natural, 1 pce.

0.0.627.69



Quick Multiblocks with Securing Pin and with Slotted Pin

- For rapid opening and closing
- No tools required
- Plastic or metal pin, as required

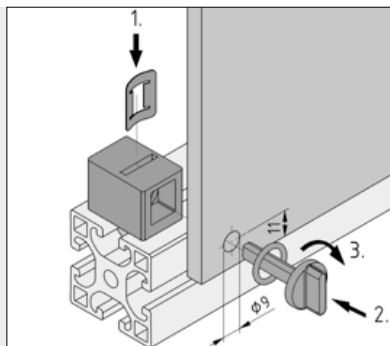


Quick Multiblocks 8 offer the option of fastening a panel element securely in a profile frame in such a way that it can easily be removed. The securing pin is operated either by hand without the need for a tool or using a coin (Quick Multiblock 8 with Slotted Pin).

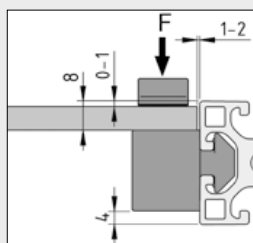
Lightweight metal sheet and panel elements made from Acrylic Glass, Plastic or Compound Material must be provided with a drill hole at the appropriate location. They are locked in place using the securing pin.

Plastic securing pins are suitable for very occasional operation and die-cast zinc pins for more frequent use or high loads.

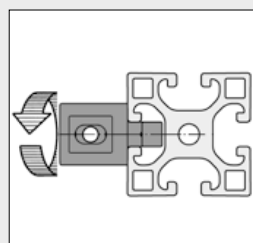
Quick Multiblocks 8 can be moved within the groove in order to align them with the hole in the panel element.



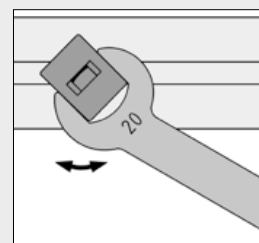
Quick Multiblocks can be used for panel elements of any thickness (up to 8 mm). They can be adapted to the thickness of the panel thanks to two different mounting positions (4 or 8 mm from the edge of the profile). The spring clip is to be inserted in the Quick Multiblock according to the direction in which the load is applied. The concave side of the spring must face the panel and pin. Locking the pin also tightens the spring.



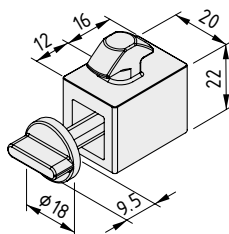
Recommendation for mounting the panel element.
The permissible load for Quick Multiblocks 8 is $F = 250 \text{ N}$.



Quick Multiblock 8 is inserted in the profile groove and locked in place with a 90° turn to the right.



A wrench 20 A/F is recommended for this operation.



Quick Multiblock 8 with Securing Pin PA



Basic unit, PA-GF
Spring clip, St, stainless
O-ring 12x2, NBR, black
Securing pin PA
 $m = 14.0 \text{ g}$

grey, 1 pce.

0.0.604.10

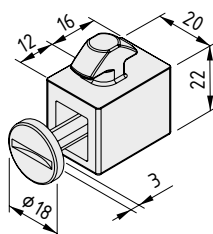
Quick Multiblock 8 with Securing Pin Zn



Basic unit, PA-GF
Spring clip, St, stainless
O-ring 12x2, NBR, black
Securing pin die-cast zinc
 $m = 23.0 \text{ g}$

grey, 1 pce.

0.0.603.41



Quick Multiblock 8 with Slotted Pin Zn



Basic unit, PA-GF
Spring clip, St, stainless
O-ring 12x2, NBR, black
Slotted pin die-cast zinc, white aluminium
 $m = 20.0 \text{ g}$

grey, 1 pce.

0.0.603.42



Quick Multiblock 8 with Non-Removable Pin

The quick-action non-removable fastening

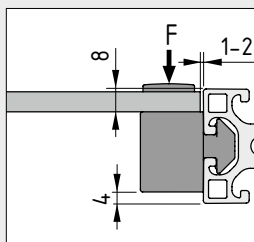
- Prevent inadvertent opening of fixings
- Secure panel fastening – cannot be released without being destroyed



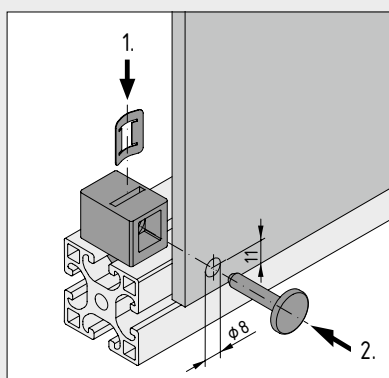
5

It doesn't get any faster: push the non-removable pin through the hole in the panel element and into the Quick Multiblock – that's it, the secure panel fastening cannot be released without destroying it.

Safe and sound: say goodbye to unauthorised access!



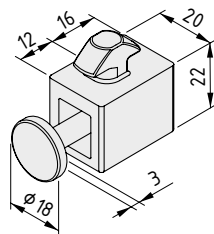
Recommendation for mounting the panel element.
Permissible loading force for Multiblocks 8 is $F = 250 \text{ N}$.



Quick Multiblocks can be used for panel elements of any thickness (up to 8 mm). They can be adapted to the thickness of the panel thanks to two different mounting positions (4 or 8 mm from the edge of the profile). The spring clip is to be inserted in the Quick Multiblock according to the direction in which the load is applied: the convex side of the clip must face away from the panel and pin. Pressing in the pin also tightens the spring.



The head of the pin needs to be broken off before the pin can be removed.



Quick Multiblock 8 with Non-Removable Pin



Quick Multiblock 8, PA
Non-removable pin, PA
Spring clip, St, stainless
 $m = 14.0 \text{ g}$

black, 1 set	0.0.625.91
grey, 1 set	0.0.625.90

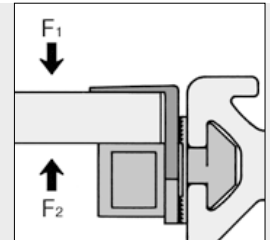


Clamp Multiblocks PA

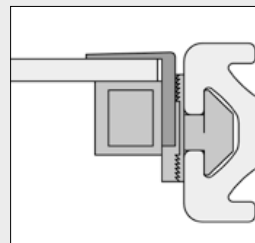
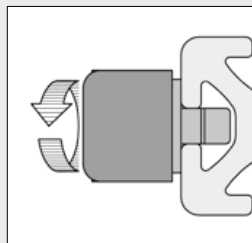
- For machining-free panel fastening
- Flexible securing clip securely holds panels of different thicknesses



Clamp Multiblocks secure panel elements in profile frames without need for further machining. Clamp Multiblock PA is inserted into the profile groove; a locating lug secures lightweight panel elements of different thicknesses, such as cladding panels, panel elements made from Acrylic Glass, etc.



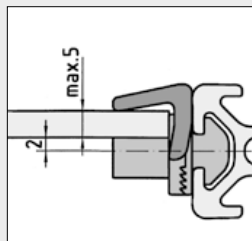
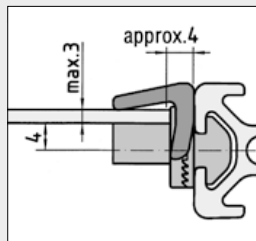
The securing clip can be detached again by means of a screwdriver.



	F ₁ [N]	F ₂ [N]
5	100	20
6	150	30
8	250	50

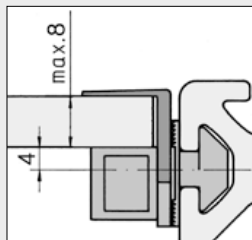
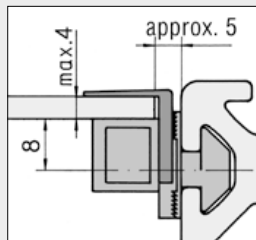
The basic unit is twisted into the groove, the panel element fitted and clamped in position by means of the securing clip.

Clamp Multiblock 5 PA

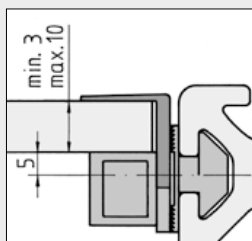
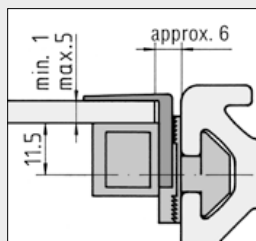


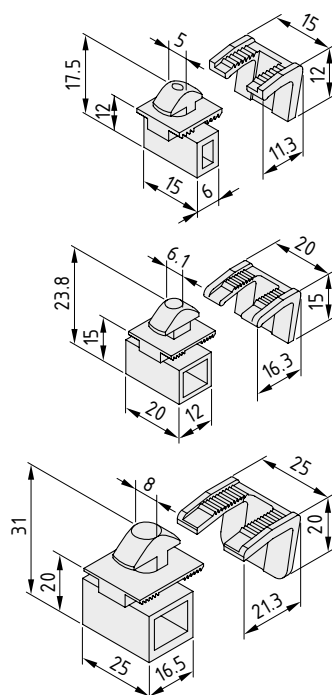
Two mounting dimensions are available depending on the orientation of the Multiblock.

Clamp Multiblock 6 PA



Clamp Multiblock 8 PA



**Clamp-Multiblock 5 PA**

PA-GF
Basic unit and securing clip
m = 2.0 g

black, 1 pce. 0.0.437.24

grey, 1 pce. 0.0.641.59

Clamp-Multiblock 6 PA

PA-GF
Basic unit and securing clip
m = 4.0 g

black, 1 pce. 0.0.439.66

grey, 1 pce. 0.0.636.22

Clamp-Multiblock 8 PA

PA-GF
Basic unit and securing clip
m = 10.0 g

black, 1 pce. 0.0.196.63

grey, 1 pce. 0.0.641.45

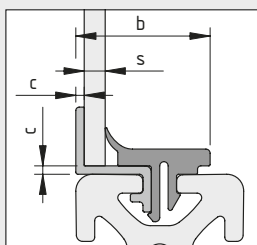


Panel-Clamping Strips

- Retrofit panels in closed frames
- Existing constructions do not need to be opened up
- Virtually flush with the outer surface of the profile



Panel-Clamping Strips are ideal for retrofitting panel elements (primarily made of Acrylic Glass, PET-G or Polycarbonate) into an assembled profile frame. Apart from straight saw cuts, no further machining of the panel element or Panel-Clamping Strips is required.

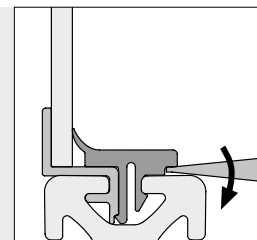
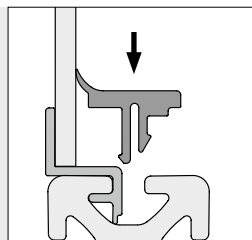


	Al					
	b [mm]	c [mm]	s [mm]			
	24	1.6	2-4	4-6		
	34	2.0	2-4	4-6	6-8	8-10
	42	2.0		4-6		

Panel-Clamping Strips secure the panel element so that there is a minimal offset of 2 mm to the outer edge of the profile. This produces a smooth outer wall for protective enclosures and helps reduce turbulence caused by air flows.

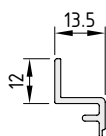
The thickness of the panel element (s) determines which Panel-Clamping Strip is required:

s = 2 - 4 / 4 - 6 / 6 - 8 / 8 - 10 mm



Panel-Clamping Strips consist of two components. The first of these, an aluminium strip, locates into the profile groove and holds the panel element in place. A second strip, made of flexible plastic, is then used to secure both the panel element and the aluminium strip in the groove. If necessary, the plastic strip can be levered out in order to remove the panel element from the frame.

A screwdriver is used to lever out the Panel-Clamping Strip so as to enable removal of the panel element from the frame.



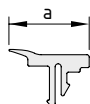
Panel-Clamping Strip 6 Al



Al, anodized
m = 124.0 g/m

natural, cut-off max. 3000 mm 0.0.615.01

natural, 1 pce., length 3000 mm 0.0.615.00



Panel-Clamping Strip 6 2-4mm



PP/TPE
a = 21.4 mm m = 85.0 g/m

grey similar to RAL 7042, cut-off max. 3000 mm 0.0.614.94

grey similar to RAL 7042, 1 pce., length 3000 mm 0.0.614.93

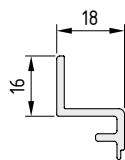
Panel-Clamping Strip 6 4-6mm



PP/TPE
a = 19.4 mm m = 78.5 g/m

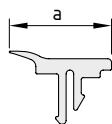
grey similar to RAL 7042, cut-off max. 3000 mm 0.0.614.91

grey similar to RAL 7042, 1 pce., length 3000 mm 0.0.614.90

**Panel-Clamping Strip 8 Al**

Al, anodized
m = 238 g/m

natural, cut-off max. 3000 mm	0.0.495.05
natural, 1 pce., length 3000 mm	0.0.493.53

**Panel-Clamping Strip 8 2-4mm**

PP/TPE
a = 30 mm m = 151 g/m

grey similar to RAL 7042, cut-off max. 3000 mm	0.0.495.04
grey similar to RAL 7042, 1 pce., length 3000 mm	0.0.493.75

Panel-Clamping Strip 8 4-6mm

PP/TPE
a = 28.2 mm m = 142 g/m

grey similar to RAL 7042, cut-off max. 3000 mm	0.0.495.03
grey similar to RAL 7042, 1 pce., length 3000 mm	0.0.494.64

Panel-Clamping Strip 8 6-8mm

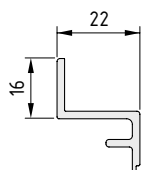
PP/TPE
a = 27 mm m = 127 g/m

grey similar to RAL 7042, cut-off max. 3000 mm	0.0.495.02
grey similar to RAL 7042, 1 pce., length 3000 mm	0.0.493.73

Panel-Clamping Strip 8 8-10mm

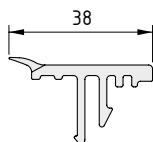
PP/TPE
a = 25 mm m = 135 g/m

grey similar to RAL 7042, cut-off max. 3000 mm	0.0.614.76
grey similar to RAL 7042, 1 pce., length 3000 mm	0.0.614.71

**Panel-Clamping Strip 10 Al**

Al, anodized
m = 306 g/m

natural, cut-off max. 3000 mm	0.0.632.89
natural, 1 pce., length 3000 mm	0.0.632.88

**Panel-Clamping Strip 10 4-6mm**

PP/TPE
m = 178 g/m

grey similar to RAL 7042, cut-off max. 3000 mm	0.0.632.91
grey similar to RAL 7042, 1 pce., length 3000 mm	0.0.632.90



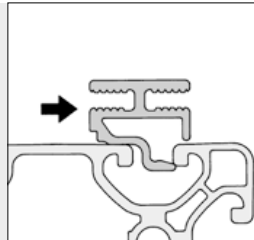
Double Panel Profile 8 Al E

- For building double-walled frame elements
- Extremely easy to fit

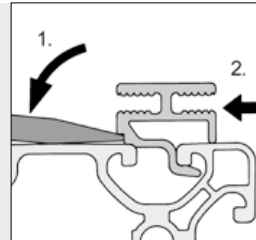


Double Panel Profile 8 Al E can be locked into the groove of Profiles 8 without the need for screw connections.

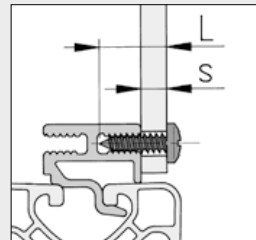
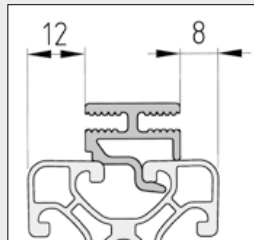
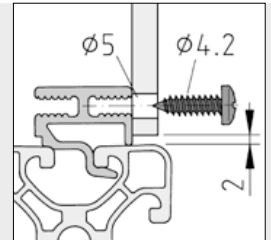
Panel elements can be secured to both sides of the Double Panel Profile using Self-Tapping Screws.



Assembling Double Panel Profile 8 Al E.

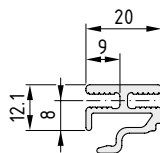


Disassembling Double Panel Profile 8 Al E.



s [mm]	L [mm]
< 3	4.2 x 9.5
3 - 6	4.2 x 13
6 - 9	4.2 x 16
9 - 12	4.2 x 19
12 - 15	4.2 x 22
15 - 18	4.2 x 25

The length of the screws for fixing the panel elements depends on the element's thickness.



Double Panel Profile 8 Al E



Al, anodized

A [cm²] m [kg/m]

1.35 0.36

natural, cut-off max. 3000 mm

7.0.001.65

natural, 1 pce., length 3000 mm

0.0.453.71



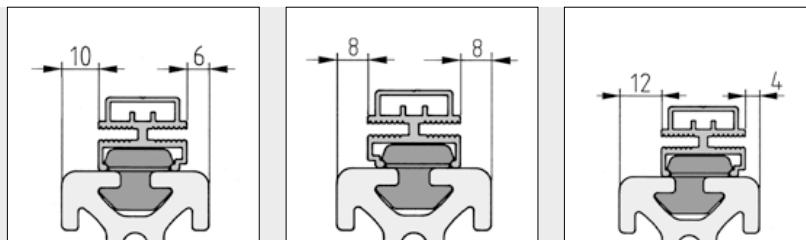
Double Panel Profile 8 Al

- For building double-walled frame elements
- Fastening still possible when the groove is already partially in use

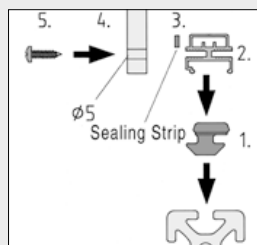


5

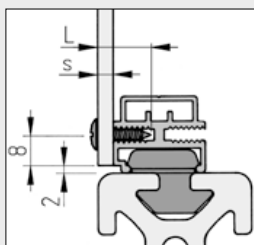
Double Panel Profile 8 Al is ideal for profile constructions in which the groove cannot be used along its entire length. Fastening to the profile groove is via Clip 8 PA.



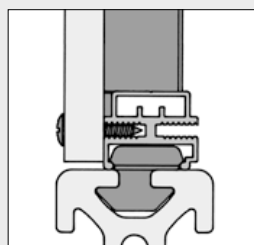
Matching to the wall thickness of the Panel Element by adjusting the positions of Double Panel Profile 8 Al and Clip 8 PA.



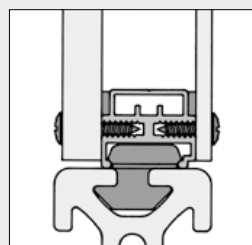
- 1 Clip 8 PA
- 2 Double Panel Profile 8 Al
- 3 Sealing Strip 6x3 sk
- 4 Panel element
- 5 Self-Tapping Screw



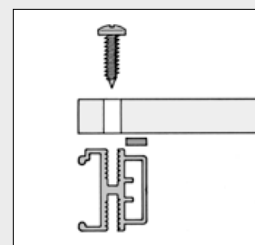
s [mm]	L [mm]
< 3	4.2 x 9.5
3 - 6	4.2 x 13
6 - 9	4.2 x 16
9 - 12	4.2 x 19
12 - 15	4.2 x 22
15 - 18	4.2 x 25



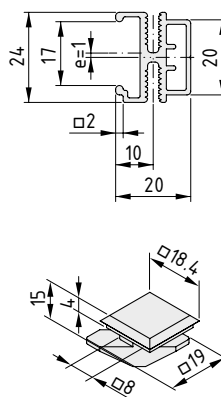
Double Panel Profile in conjunction with Lip Seal 6x3 sk and Sound-Insulating Material 20 mm.



Double Panel Profile in conjunction with Sealing Strip 6x3 sk when used for double-walled constructions.



Sealing Strip, self-adhesive on one side, for sealing frame elements. Can also be used as a damping element on mating surfaces, particularly in combination with Double Panel Profile 8 Al.



Double Panel Profile 8 Al

Al, anodized

A [cm²] m [kg/m]

1.62 0.44

natural, cut-off max. 3000 mm

0.0.420.99

natural, 1 pce., length 3000 mm

0.0.453.70

Clip 8 PA

PA-GF

Recommended number: 4 pce./m

m = 3.0 g

black, 1 pce.

0.0.422.38

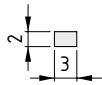
The following applies to all the products below:

Cellular rubber

closed-cell, self-adhesive on one side

Temperature range: -30°C to +110°C

Resistant to many oils, fuels, acids and alkaline solutions

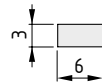


Sealing Strip 3x2 sk

m = 1.6 g/m

black, 1 pce., length 1000 mm

0.0.479.98



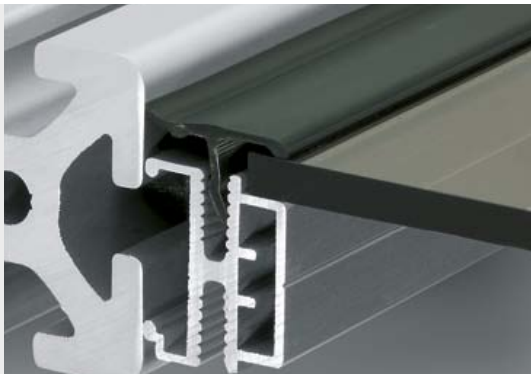
Sealing Strip 6x3 sk

m = 3 g/m

black, 1 roll length 10 m

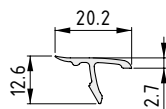
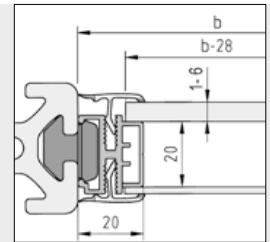
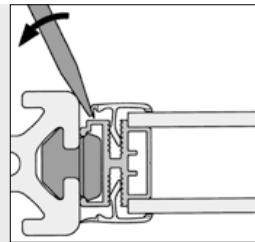
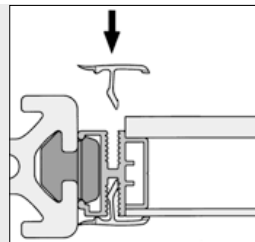
0.0.422.66

5



Panel-Fixing Strip

- Fasten panels rapidly on Double Panel Profile 8 AL
- No need to machine the panel element



Panel-Fixing Strip 8

PVC

m = 55 g/m

black, 1 pce., length 2000 mm

0.0.429.64





Listelli angolari Al

- il fissaggio variabile per elementi di qualsiasi tipo
- molto resistente grazie al sicuro ancoraggio nella scanalatura
- utilizzabile come listello di battuta per porte

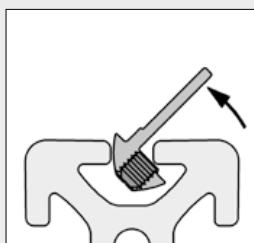
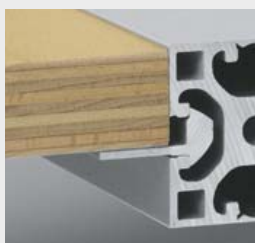


Il fissaggio per elementi piani, scalini o apparecchi di montaggio tra i profilati: il listello angolare passante consente di realizzare costruzioni a tenuta, ad esempio per elementi piani, oppure listelli di battuta per porte.

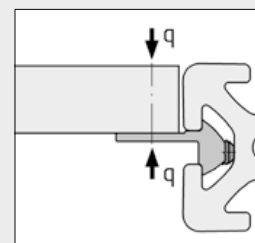
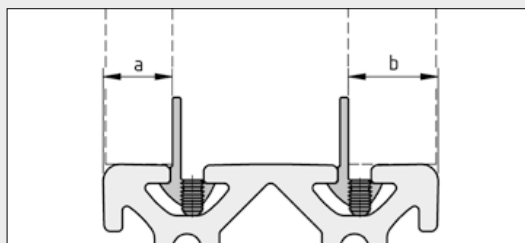
Elevata capacità di carico grazie ad una distribuzione delle forze ideale e uniforme.

Il listello angolare 8 Al 19" serve per il montaggio di piastre frontali da 19", involucri da 19" o altri componenti piani. In tal caso il fissaggio avviene mediante dadi a gabbia che è possibile inserire nelle aperture passanti quadrate del listello angolare. 1 HE corrisponde a una lunghezza di 44,45 mm

Misure per l'accoppiamento del listello angolare di alluminio ai profilati.

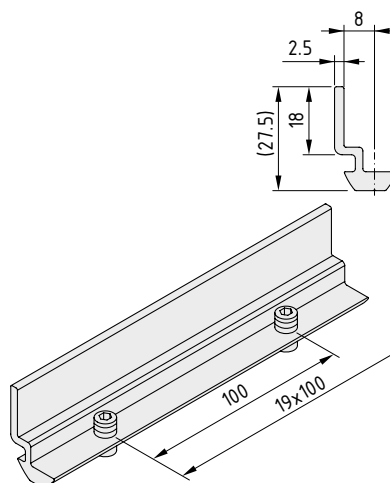


Il listello angolare si inserisce nella scanalatura e si fissa mediante perni filettati. I listelli angolari 8 alluminio 16 M5, 8 alluminio M6 e 10 alluminio M6 sono già provvisti dei fori e dei perni filettati necessari.



Listello angolare	a [mm]	b [mm]	q_{max} [N/m]
8 Al (M6; 19")	10,5	27,0	1.000
8 Al 16 (M5)	16,5	21,5	1.000
10 Al	10,5	36,5	1.200

Carico parziale ammissibile dei listelli angolari.



Listello angolare 8 Al

Al, anodizzato
m = 310 g/m

naturale, 1 pezzo da 2000 mm

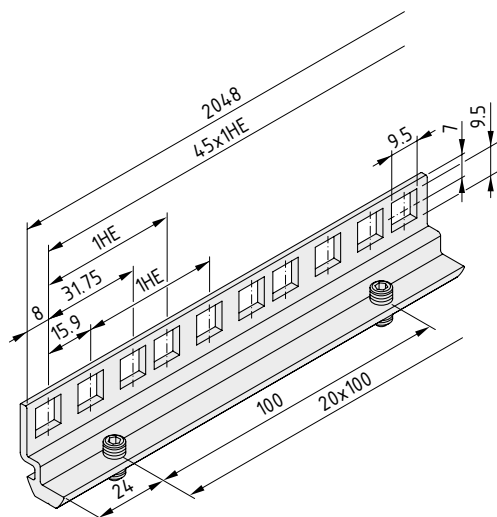
0.0.411.14

Listello angolare 8 Al M6

Alluminio, anodizzato, naturale
completamente lavorato con 20 filettature M6
inclusi grani filettati DIN 913-M6x12, acciaio, zincati
m = 540,0 g

naturale, 1 pezzo da 2000 mm

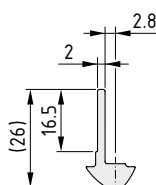
0.0.444.89


Listello angolare 8 Al 19"


Alluminio, anodizzato, naturale
completamente lavorato con fori e 21 filettature M6 inclusi grani filettati DIN
913-M6x12, acciaio, zincati
m = 576,0 g

naturale, 1 pezzo da 2048 mm

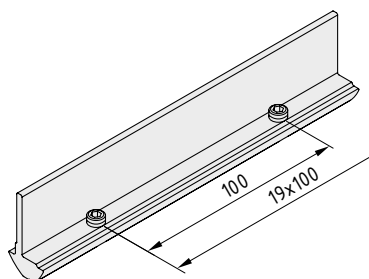
0.0.398.19


Listello angolare 8 Al 16


Al, anodizzato
m = 268 g/m

naturale, 1 pezzo da 2000 mm

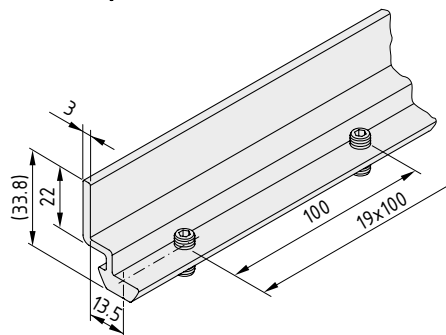
0.0.607.10


Listello angolare 8 Al 16 M5


Alluminio, anodizzato, naturale
completamente lavorato con 20 filettature M5
incluse le viti senza testa DIN 913-M5x6
m = 554,0 g

naturale, 1 pezzo da 2000 mm

0.0.605.21


Listello angolare 10 Al M6


Alluminio, anodizzato, naturale
completamente lavorato con 20 filettature M6
inclusi grani filettati DIN 913-M6x14, acciaio, zincati
m = 1000,0 g

naturale, 1 pezzo da 2000 mm

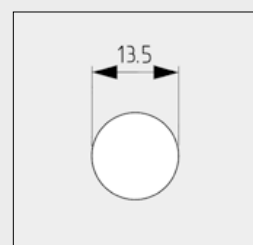
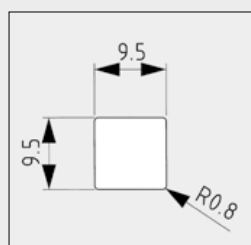
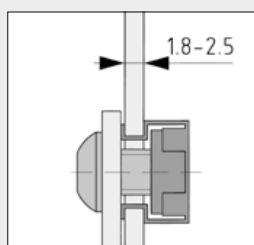
0.0.625.30

Captive Nuts

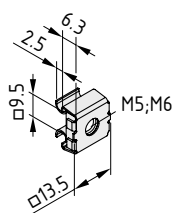
- Nut clips into Rebate Profile 8 Al 19"
- Quickly fitted and removed



Universal usage for installation in Rebate Profile 8 Al 19" or in panel elements. The Captive Nuts can be installed by snapping the latch springs into the corresponding recess.



The recesses can be either:
- Square - with anti-torsion feature
- Round - no anti-torsion feature



Captive Nut M5

St
Cage and square nut
m = 5.0 g
bright zinc-plated, 1 pce.

0.0.411.62

Captive Nut M6

St
Cage and square nut
m = 5.0 g
bright zinc-plated, 1 pce.

0.0.411.63

5



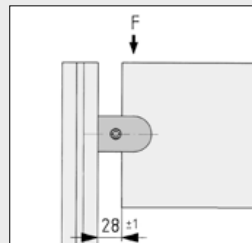
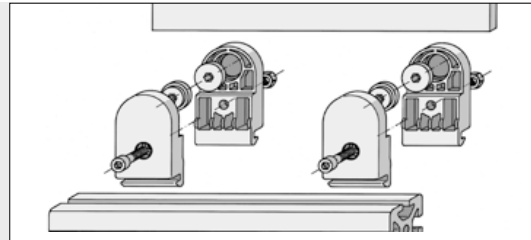
Panel Clamp

- Fasten panel elements without needing to machine them
- Clamping screw fastens the panel and Panel Clamp to a profile

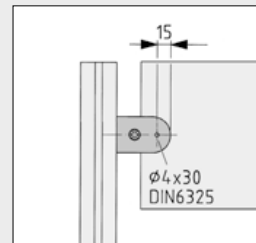


For securing panel elements to Profiles 8 without the need for additional machining. Tightening the clamping screw fixes the Panel Clamp to both the panel element and the profile.

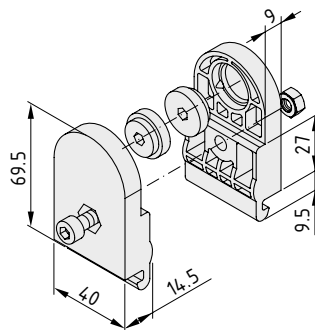
Particularly suitable for attachment of unframed panels etc. Not suitable for mesh and corrugated mesh. The panel elements of thickness 4 - 10 mm can be clamped in position by the asymmetrical spacer washers. Depending on the particular application, it may be necessary to invert the spacer washers in the housing.



Max. loading for each Panel Clamp without pinning.
 $F_{\max} = 100 \text{ N}$



Possible pinning position for securing the panel element against movement.



Panel Clamp 8

2 housing halves, PA-GF, black
 Hexagon Socket Head Cap Screw DIN 912-M6x20, St, bright zinc-plated
 Hexagon Nut DIN 934-M6, St, bright zinc-plated
 2 spacer washers, NBR, black
 $m = 56.0 \text{ g}$

1 set

0.0.388.91



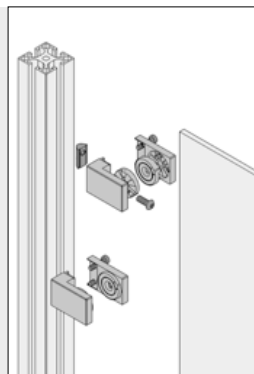
Panel Clamp X 6-8

- Elegant support that holds panels without the need for machining work
- Elastic inserts dampen vibrations
- Rigid fastening thanks to internal bolts

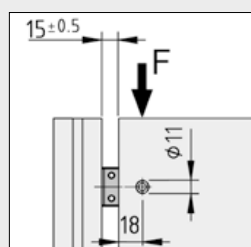


Panel Clamp X 6-8 is a fastener for unframed panels (4 - 8 mm thick) that does not require any further machining of the panel element. The panel element is held securely by elastic inserts.

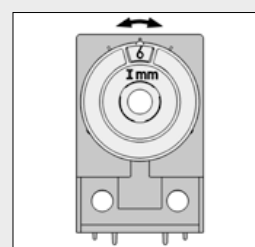
Fitting the panel element securely using internal bolts is also an option.



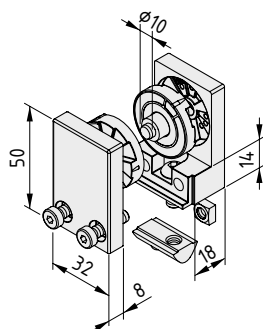
The Panel Clamp is fastened in the groove in Profiles 8 using a screw connection with T-Slot Nut 8. When using the Panel Clamp with Line 6 profiles, a T-Slot Nut 6 St M6 with a Button-Head Screw M6x14 is required. The anti-torsion elements are also to be removed as appropriate for this purpose.



A clearance of 15 mm is to be ensured when cutting the panel element. When using fastening bolts, through bores with a diameter of 11 mm also need to be cut. Max. load for each Panel Clamp without a fastening bolt $F_{max} = 100 \text{ N}$.



The Panel Clamp can be adapted to panel elements between 4 and 8 mm thick by turning the elastomer inserts. A window in the insert shows the selected panel thickness.



Panel Clamp X 6-8



2 housing components, die-cast zinc, white aluminium
 2 inserts, PUR, transparent
 Bolt D6x21.5, St, bright zinc-plated
 Collar D6/D10, PUR, grey
 T-Slot Nut V 8 St M6, bright zinc-plated
 Button-Head Screw ISO 7380-M6x16, St, bright zinc-plated
 2 Hexagon Socket Head Cap Screws DIN 7984-M5x20, St, bright zinc-plated
 2 square nuts similar to DIN 557-M5, St, bright zinc-plated
 m = 175.0 g

1 set

0.0.605.41



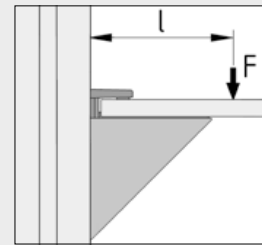
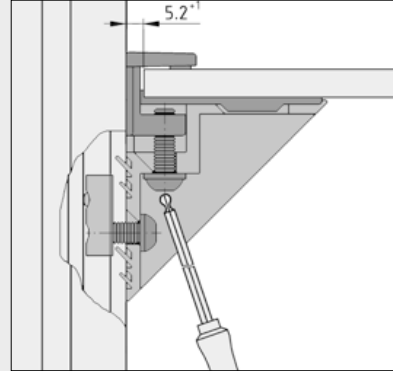
Support Arm X 6-8

- Aesthetically appealing support for shelving
- Concealed clamping system provides a secure fixing



Support Arm X 6-8 is a support for glass shelves or other inherently stable panel elements. Rear clamping of the panel element allows cantilever fastening to a Line 6 or Line 8 profile structure. The form of Support Arm X 6-8 corresponds to the clean contour of profile form X.

The load-carrying capacity of the shelf and the holding force indicated for the Support Arms must not be exceeded. The total load applies to the indicated distances between supports with an even distribution of weight!

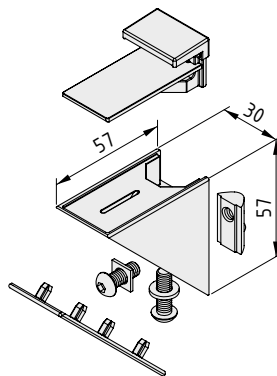


Support Arms X 6-8 are suitable for clamping panel elements 4 to 10 mm thick.

The tightening torque for the tensioning screw must not exceed 3 Nm.

Support Arm X 6-8 is fastened in the groove in Profiles 8 using a screw connection with T-Slot Nut 8. When using Support Arm X 6-8 with Line 6 profiles, a T-Slot Nut 6 St M6 with a Button-Head Screw M6x14 is required.

The permissible depth of the shelf is $l_{\max.} = 200 \text{ mm}$ with a load $F_{\max.} = 80 \text{ N}$. The distance between two Support Arms should not exceed 500 mm.



Support Arm X 6-8



Angle Bracket, die-cast zinc, white aluminium
 Cap, PA-GF, grey
 T-Slot Nut V 8 St M6, bright zinc-plated
 Button-Head Screw ISO 7380-M6x20, St, bright zinc-plated
 Washer DIN 125-6.4, St, bright zinc-plated
 Button-Head Screw ISO 7380-M6x16, St, bright zinc-plated
 Washer 10.5x10.5x1.3, St, bright zinc-plated
 Clamping element, die-cast zinc, white aluminium
 Support, PUR, grey
 m = 198.0 g

1 set

0.0.496.01

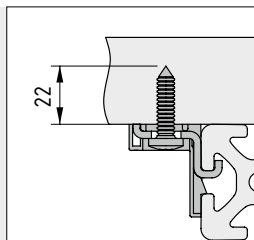


Table-Top Fastening Set

- Secure table tops to profile frames
- Self-tapping screws for wooden panels included



Table-Top Fastening Set 8 is a robust fastening element for table tops made of solid wood or chipboard on profile frame constructions. Clamping in the profile groove is achieved by tightening the self-tapping screw.



The table top does not need to be processed. The self-tapping screw can be screwed directly into the table top using a screwdriver (TX30 bit). The tolerance is adjusted by means of a slot in Table-Top Fastening Set 8.

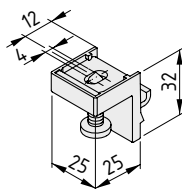


Table-Top Fastening Set 8



Clamping device, St, bright zinc-plated
Cap, PA-GF, black
Screw 6x25-TX30, self-tapping, St, bright zinc-plated
m = 24.0 g

1 set

0.0.617.63



Flange

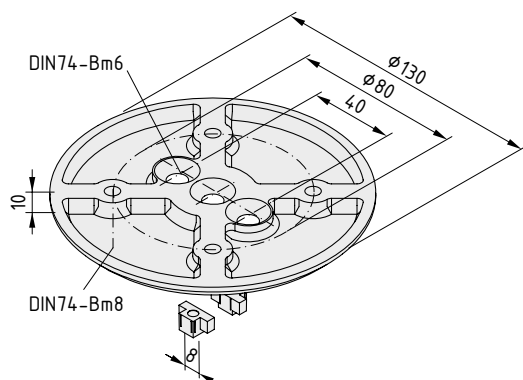
- Mounting plate for table columns
- Stable fastening, particularly for Column Profile D110



Flange 8 D130 can be used as a mounting plate for table columns with Column Profile D110. It can be screwed to a table top, a base plate or directly to the floor.



Flange 8 D130 is screwed to Column Profile D110 by means of 2 Countersunk Screws DIN 7981-M8x25. To do this, M8 threads must be tapped into the core bores (\varnothing 6.8 mm) in the Column Profile.



Flange 8 D130



Die-cast zinc
2 anti-torsion lugs, die-cast zinc, galvanized
m = 399.0 g

white aluminium, similar to RAL 9006, 1 set

0.0.474.82