PRODUCT CATALOGUE

ENCLOSURES AND SAFETY GUARDS

FLEXLINK®
a **coesia** company

FLEXLINK®
a coesia company

Profile system TC40

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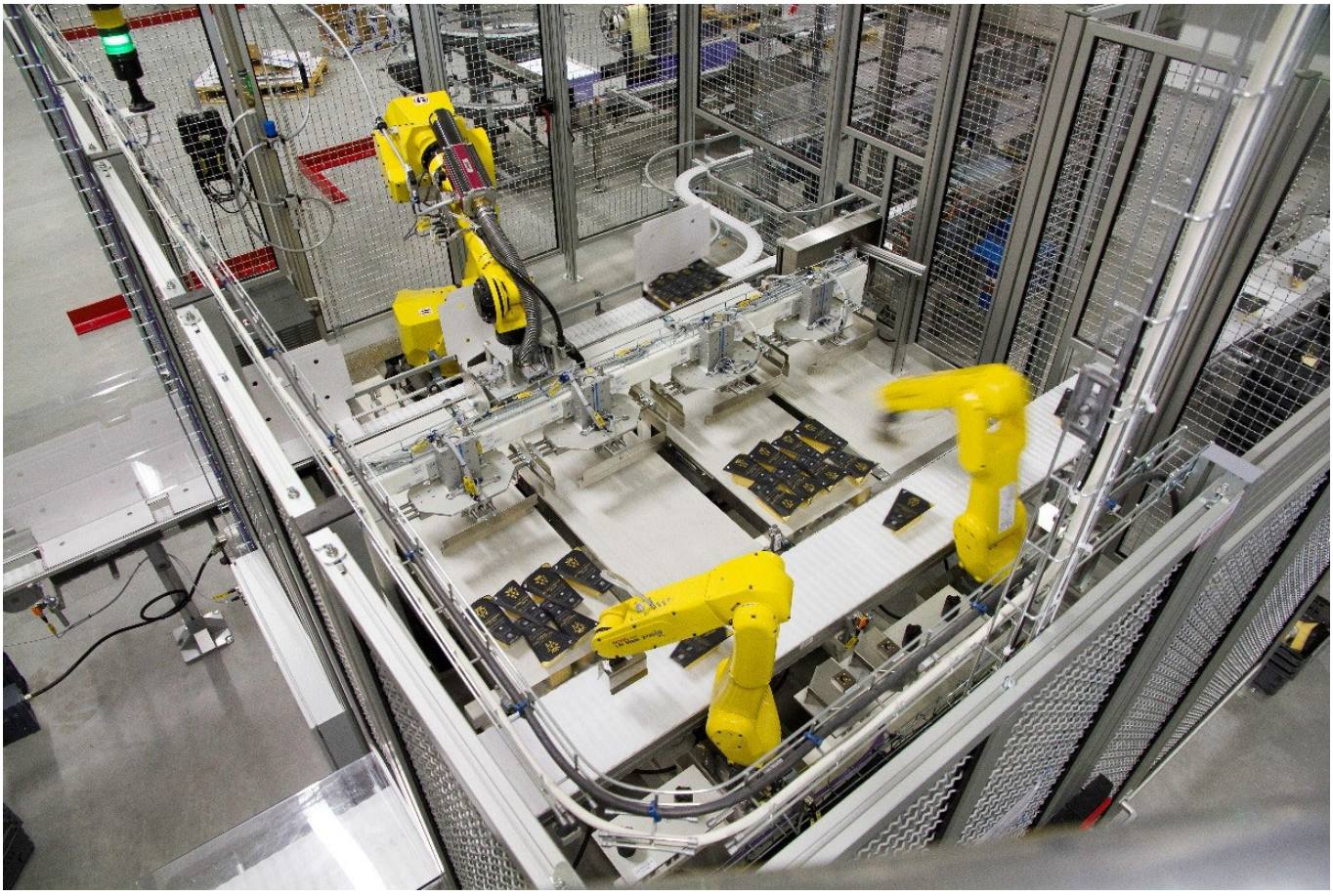
Safety engineering



FlexLink applies a holistic approach to safety engineering. Our team of experts supports you through every phase of the project.

We assist in performing risk analysis, defining the functional requirements, undertake construction, installation and maintenance tasks. This enables you to save valuable time and reduce costs.

Our goal is to provide flexible, reliable and safe systems for your individual applications.

Guardings

Our safety guards protect areas that could cause injury to operators. We offer fence solutions that are modular, with a highly flexible design. While quick and easy to assemble, they also facilitate compliance with many types of legal requirements.

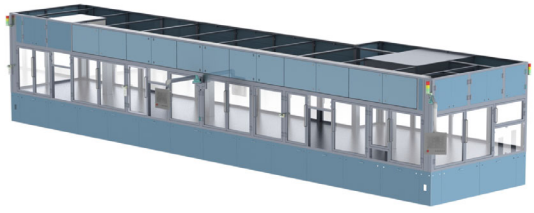
It is possible to order special dimensions which will fit perfectly to your application and hence reduced the required floor space to a minimum.

Virtually any RAL colour is available. Safety switches, sensors or special locks can be integrated in line with customer requirements.

- High flexibility
- Modular design
- Ready for integration of sensors and electrical devices
- Robust
- Short assembly time
- Complete range:
  - Structures
  - Safety accessories
  - Doors
  - Panels

Enclosures

Contamination and disturbances can be eliminated by encapsulating your process machines. We have a complete range of components for designing the enclosure that meets your particular needs. For example, our closed beams make a clean and professional impression, while serving their intended purpose of eliminating places where dirt and dust can hide. They are also designed to facilitate compact layouts and quick installation.



The exterior features a clear, modern appearance. The individualized colour scheme and high-quality appearance of the enclosures from the FlexLink profile system ensures that your machines are easily recognizable. With the profile system from FlexLink, it is also easier to satisfy the increasing requirements of health and safety regulations.

- Integral part of the machine safety concept
- Complete range of components
- Open and closed profiles for light, medium and heavy-duty applications
- Modern and attractive design
  - Brand builder
  - Increase value
- Easy to design and assemble
- Easy to clean
- Robust and flexible

Easy to design and order

Machine enclosures and safety guards can be easily designed in the FlexLink Design Tool. With its built-in intelligence to help avoid errors, it saves valuable time for both design and mechanical engineers. The software tool also exports to STEP and SAT files allowing quick integration into the general machine or line drawing.

With the export feature of the bill of material (BoM), including all necessary machining, ordering is completed quick and easy. Intuitive assembly drawings that enable fast and trouble free installation can be easily prepared as well. BoM is imported into FlexLink's e-commerce site, the Online Store- where you find CAD blocks for the most common CAD types for nearly all of FlexLink's components. The full use of FlexLink's engineering tools is a real time saver.

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Icon overview

General

Packing unit

Area

Type/version

Material

Tools

Fabrication

Colour

Cutting profile to length

Antistatic type

Weight

Left hand version/right hand version RS

System-related

Profile series

Slot pull-out force

Opening angle

End cap

Maximal load-bearing capacity

Tightening torque

Floor plate

Anti-rotation element

Dimensions

Sizes, dimensions

Ix moment of inertia

Min. bending radius Rx

Stock length

Iy moment of inertia

Min. bending radius Ry

Thread

Wx drag torque

Wy drag torque

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Profiles TC40

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Summary of TC40 profiles

Fewer profiles – more application options

The range of profiles from the TC40 system consists of open profiles in types L (Light), B (Basic), H (Heavy) and U (Ultra) for moderate to high static and dynamic demands, and closed profiles in types BC (Basic Closed) and HC (Heavy Closed).

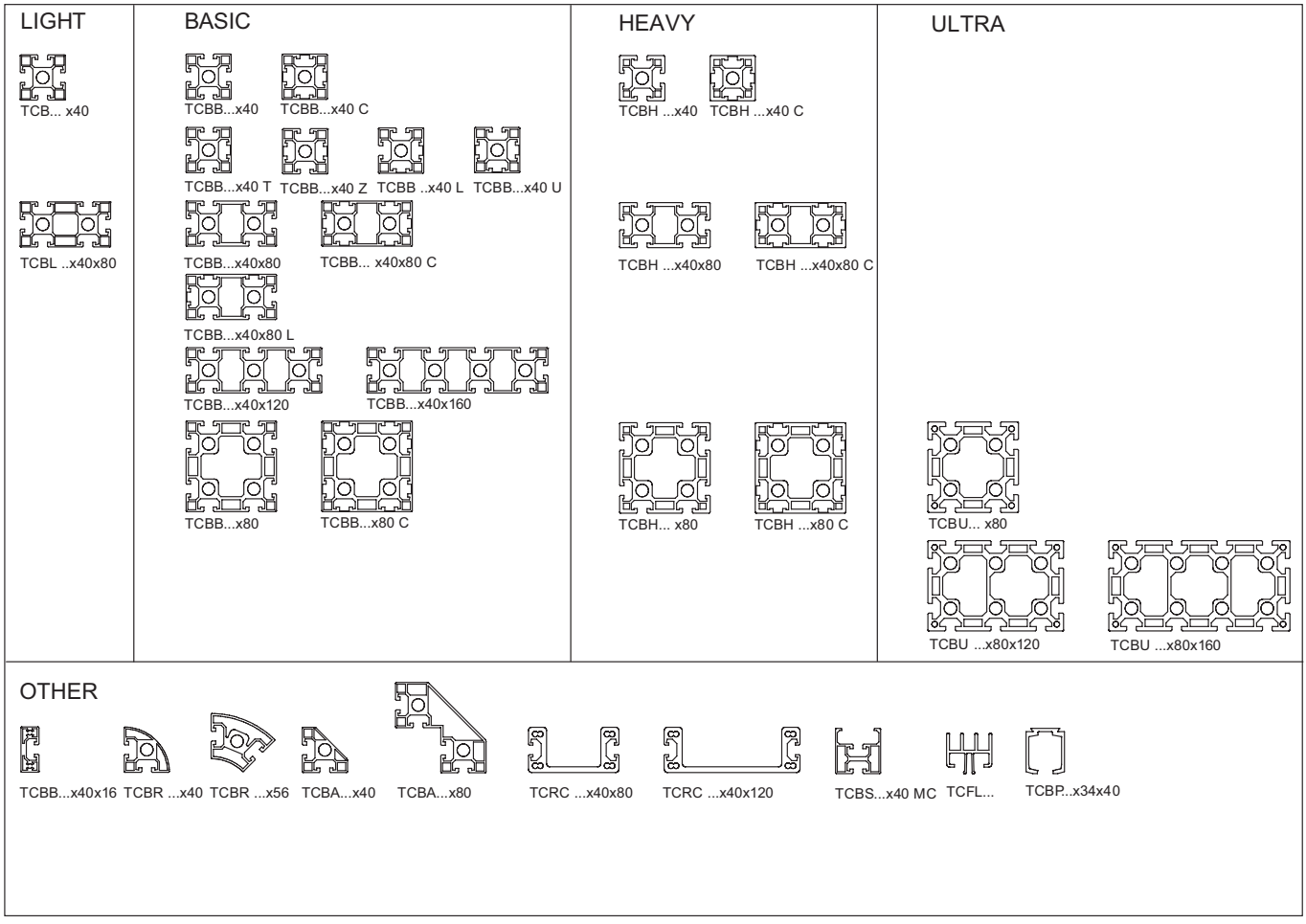
The range is complemented by a variety of angular and round-edged profiles. All series come with a standardised outer radius of 1mm to avoid visible cut edges and dirt traps. The reinforced slot geometry even permits the use of clampable joints in the standard TC40 L (Light) version.

Lengths and tolerance of our aluminium profiles

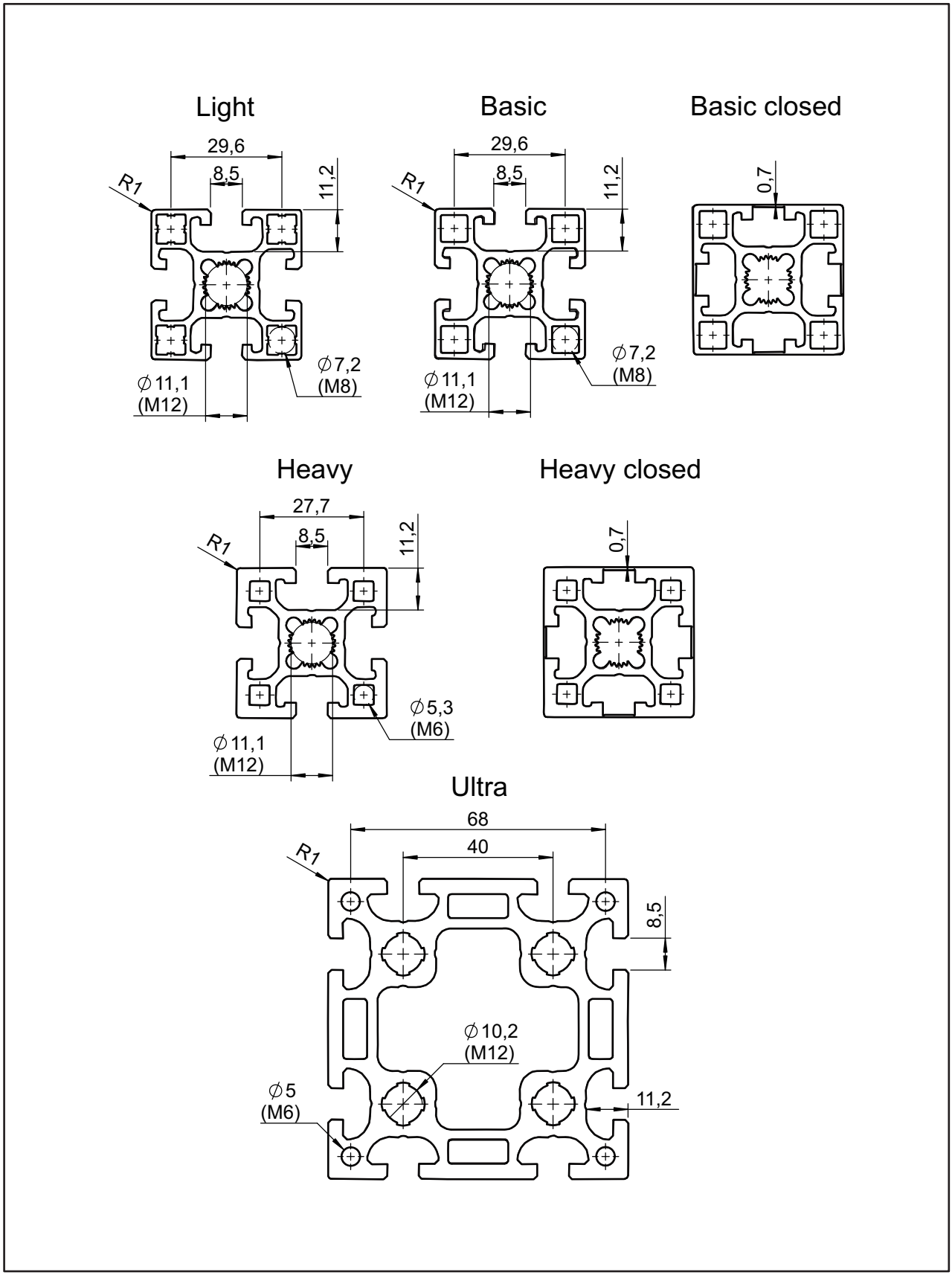
If no other tolerance is stated in the catalogue all "3 m" and "6 m" aluminium beams will be delivered with a length of 3030 ±5 mm respective 6070 ±5 mm.

The extra length compensates for cut losses on local site.

If no other range is mentioned in the catalogue L-cut aluminium profiles can be ordered in the range of 30-6000 mm.



Common dimensions



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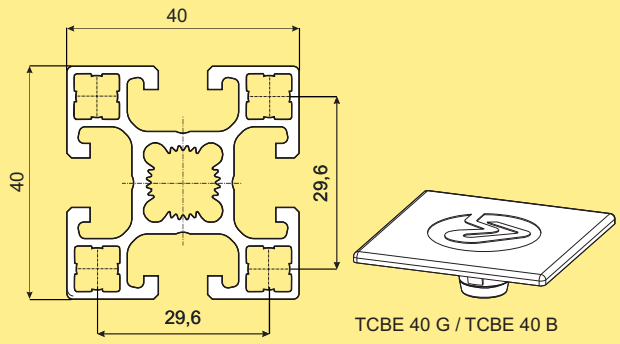
Profile, 40x40 Light



TCBE 40 G / TCBE 40 B

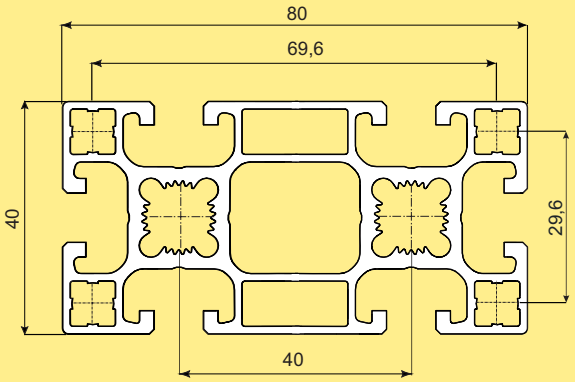
Profile, 40x40 Light
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBL 3x40**
Length 6070 mm ± 5 mm	**TCBL 6x40**
Length to order (30-6000 mm)	**TCBL Lx40**
End cap, grey	**TCBE 40 G***
End cap, black	**TCBE 40 B***

* *Must be ordered in pack size 10 or pack size 100*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x80 Light



TCBE 40x80 G / TCBE 40x80 B

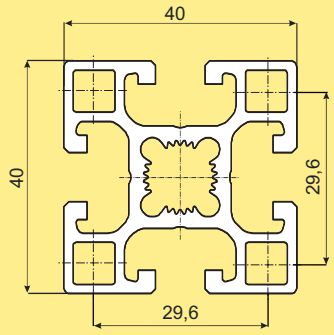
Profile, 40x80 Light
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBL 3x40x80**
Length 6070 mm ± 5 mm	**TCBL 6x40x80**
Length to order (30-6000 mm)	**TCBL Lx40x80**
End cap, grey	**TCBE 40x80 G***
End cap, black	**TCBE 40x80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x40 Basic



TCBE 40 G / TCBE 40 B

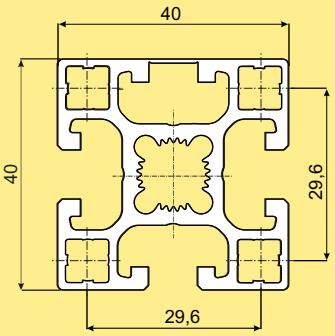
Profile, 40x40, Basic
Aluminum, anodized

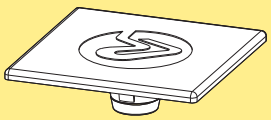
Length 3030 mm ± 5 mm	**TCBB 3x40**
Length 6070 mm ± 5 mm	**TCBB 6x40**
Length to order (30-6000 mm)	**TCBB Lx40**
End cap, grey	**TCBE 40 G***
End cap, black	**TCBE 40 B***

* *Must be ordered in pack size 10 or pack size 100*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x40 Basic, One side closed





TCBE 40 G / TCBE 40 B

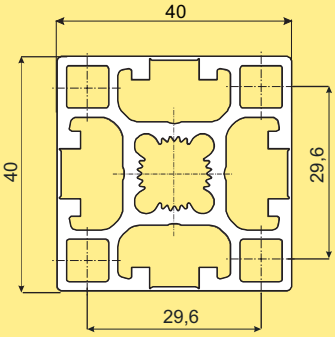
Profile, 40x40 Basic, One side closed
Aluminum, anodized

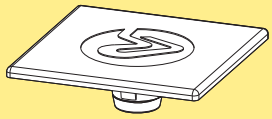
Length 3030 mm ± 5 mm	**TCBB 3x40 T**
Length 6070 mm ± 5 mm	**TCBB 6x40 T**
Length to order (30-6000 mm)	**TCBB Lx40 T**
End cap, grey	**TCBE 40 G***
End cap, black	**TCBE 40 B***

* *Must be ordered in pack size 10 or pack size 100*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x40 Basic, Closed





TCBE 40 G / TCBE 40 B

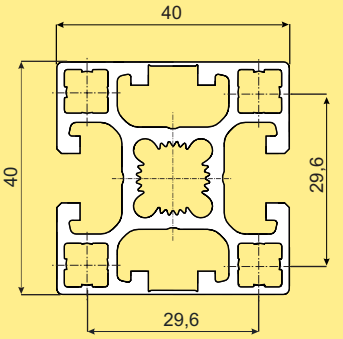
Profile, 40x40 Basic, Closed
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBB 3x40 C**
Length 6070 mm ± 5 mm	**TCBB 6x40 C**
Length to order (30-6000 mm)	**TCBB Lx40 C**
End cap, grey	**TCBE 40 G***
End cap, black	**TCBE 40 B***

* *Must be ordered in pack size 10 or pack size 100*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x40 Basic. Z-Shaped closed



TCBE 40 G / TCBE 40 B

Profile, 40x40 Basic. Z-Shaped closed
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBB 3x40 Z**
Length 6070 mm ± 5 mm	**TCBB 6x40 Z**
Length to order (30-6000 mm)	**TCBB Lx40 Z**
End cap, grey	**TCBE 40 G***
End cap, black	**TCBE 40 B***

* *Must be ordered in pack size 10 or pack size 100*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

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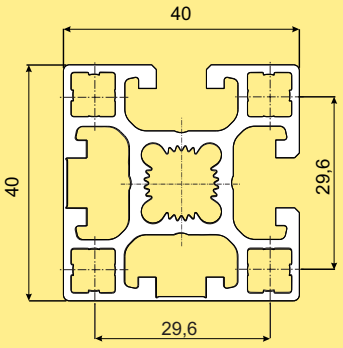
Profile, 40x40 Basic, L-shaped closed



TCBE 40 G / TCBE 40 B

Profile, 40x40 Basic, L-shaped closed

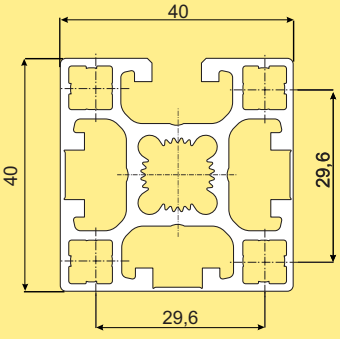
Aluminum, anodized

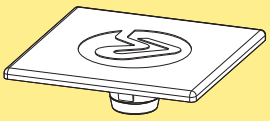
Length 3030 mm ± 5 mm	**TCBB 3x40 L**
Length 6070 mm ± 5 mm	**TCBB 6x40 L**
Length to order (30-6000 mm)	**TCBB Lx40 L**
End cap, grey	**TCBE 40 G***
End cap, black	**TCBE 40 B***

* *Must be ordered in pack size 10 or pack size 100*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x40 Basic, U-Shaped closed





TCBE 40 G / TCBE 40 B

Profile, 40x40 Basic, U-Shaped closed

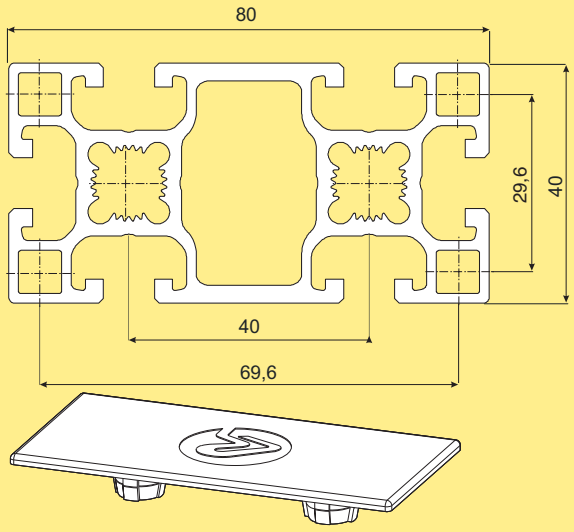
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBB 3x40 U**
Length 6070 mm ± 5 mm	**TCBB 6x40 U**
Length to order (30-6000 mm)	**TCBB Lx40 U**
End cap, grey	**TCBE 40 G***
End cap, black	**TCBE 40 B***

* *Must be ordered in pack size 10 or pack size 100*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x80 Basic



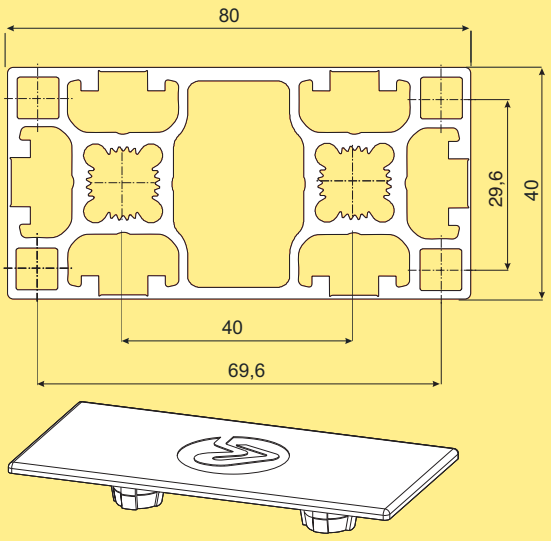
TCBE 40x80 G / TCBE 40x80 B

Profile, 40x80, Basic	
Aluminum, anodized	
Length 3030 mm ± 5 mm	**TCBB 3x40x80**
Length 6070 mm ± 5 mm	**TCBB 6x40x80**
Length to order (30-6000 mm)	**TCBB Lx40x80**
End cap, grey	**TCBE 40x80 G***
End cap, black	**TCBE 40x80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x80 Basic, Closed



TCBE 40x80 G / TCBE 40x80 B

Profile, 40x80 Basic, Closed	
Aluminum, anodized	
Length 3030 mm ± 5 mm	**TCBB 3x40x80 C**
Length 6070 mm ± 5 mm	**TCBB 6x40x80 C**
Length to order (30-6000 mm)	**TCBB Lx40x80 C**
End cap, grey	**TCBE 40x80 G***
End cap, black	**TCBE 40x80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

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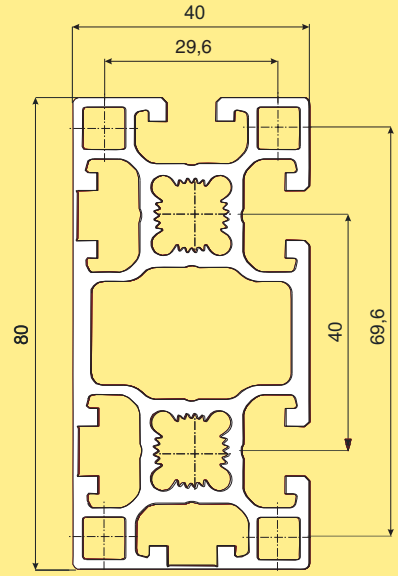
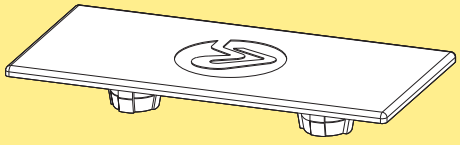
Profile, 40x80 Basic, L-Shaped, Closed





TCBE 40x80 G / TCBE 40x80 B

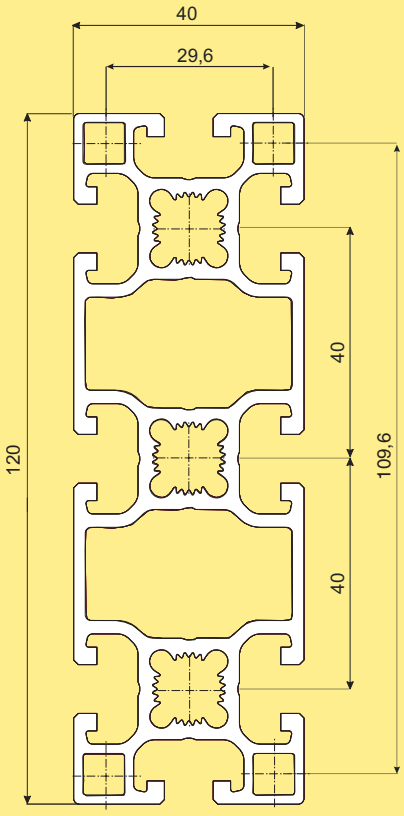
Profile, 40x80 Basic, L-Shaped, Closed

Aluminum, anodized	
Length 3030 mm ± 5 mm	**TCBB 3x40x80 L**
Length 6070 mm ± 5 mm	**TCBB 6x40x80 L**
Length to order (30-6000 mm)	**TCBB Lx40x80 L**
End cap, grey*	**TCBE 40x80 G***
End cap, black*	**TCBE 40x80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x120 Basic



TCBE 40x120 G/TCBE 40x120 B

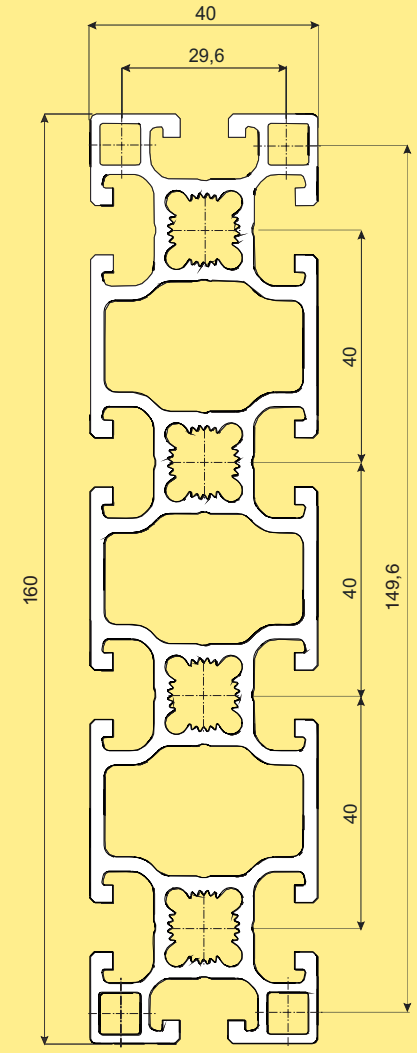
Profile, 40x120 Basic

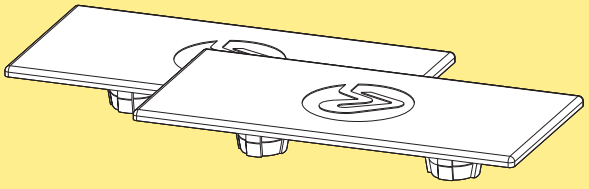
Aluminum, anodized	
Length 3030 mm ± 5 mm	**TCBB 3x40x120**
Length 6070 mm ± 5 mm	**TCBB 6x40x120**
Length to order (30-6000 mm)	**TCBB Lx40x120**
End cap, grey	**TCBE 40x120 G***
End cap, black	**TCBE 40x120 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x160 Basic





TCBE 40x80 G / TCBE 40x80 B

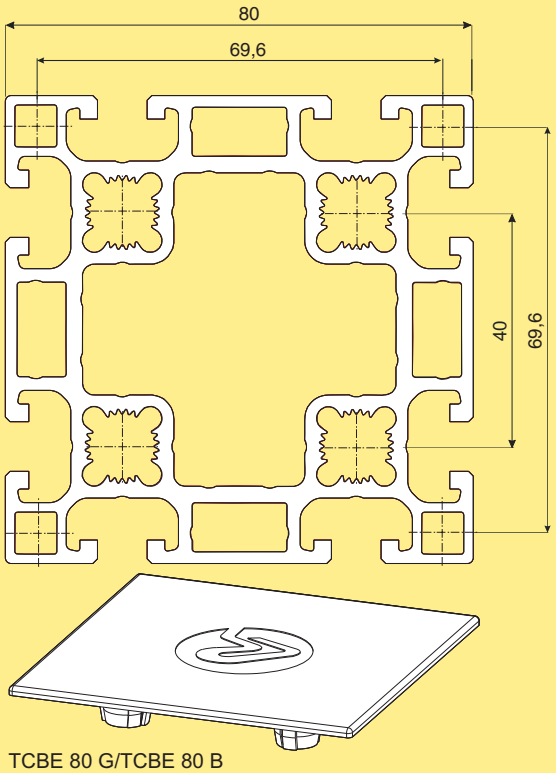
Profile, 40x160 Basic
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBB 3x40x160**
Length 6070 mm ± 5 mm	**TCBB 6x40x160**
Length to order (30-6000 mm)	**TCBB Lx40x160**
End cap, grey (2 pcs)	**TCBE 40x80 G***
End cap, black (2 pcs)	**TCBE 40x80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 80x80 Basic



TCBE 80 G/TCBE 80 B

Profile, 80x80 Basic
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBB 3x80**
Length 6070 mm ± 5 mm	**TCBB 6x80**
Length to order (30-6000 mm)	**TCBB Lx80**
End cap, grey	**TCBE 80 G***
End cap, black	**TCBE 80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

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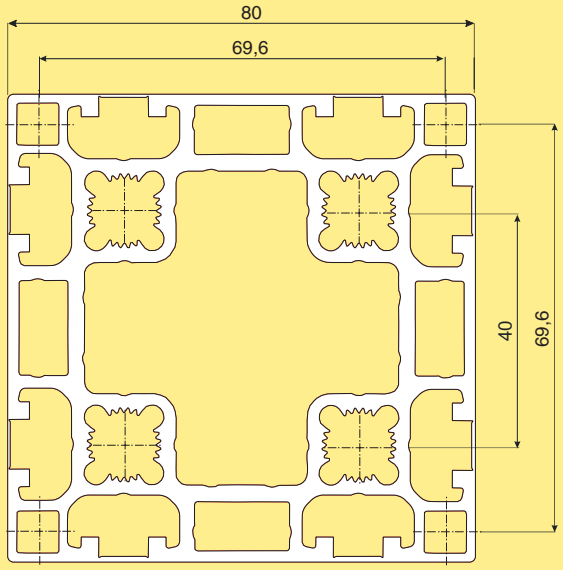
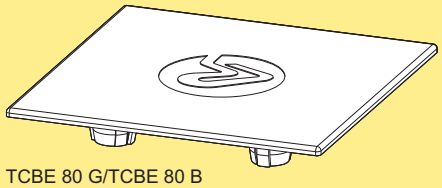
Profile, 80x80 Basic, Closed





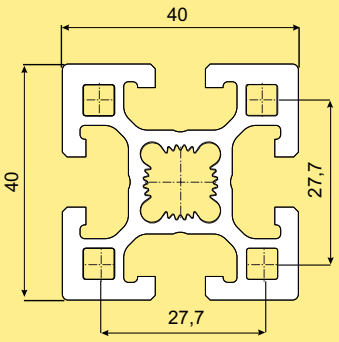
TCBE 80 G/TCBE 80 B

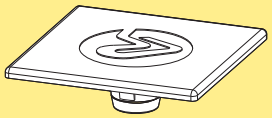
Profile, 80x80 Basic, Closed	
Aluminum, anodized	
Length 3030 mm ± 5 mm	**TCBB 3x80 C**
Length 6070 mm ± 5 mm	**TCBB 6x80 C**
Length to order (30-6000 mm)	**TCBB Lx80 C**
End cap, grey	**TCBE 80 G***
End cap, black	**TCBE 80 B***

** Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x40 Heavy





TCBE 40 G / TCBE 40 B

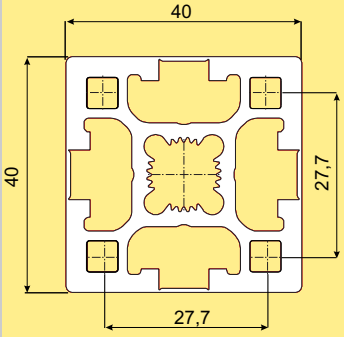
Profile, 40x40 Heavy
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBH 3x40**
Length 6070 mm ± 5 mm	**TCBH 6x40**
Length to order (30-6000 mm)	**TCBH Lx40**
End cap, grey	**TCBE 40 G***
End cap, black	**TCBE 40 B***

* *Must be ordered in pack size 10 or pack size 100*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x40 Heavy, Closed



TCBE 40 G / TCBE 40 B

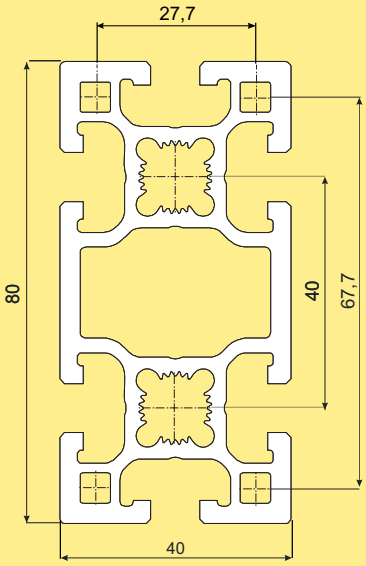
Profile, 40x80 Heavy, Closed
Aluminum, anodized

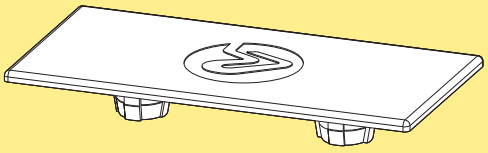
Length 3030 mm ± 5 mm	**TCBH 3x40 C**
Length 6070 mm ± 5 mm	**TCBH 6x40 C**
Length to order (30-6000 mm)	**TCBH Lx40 C**
End cap, grey	**TCBE 40 G***
End cap, black	**TCBE 40 B***

* *Must be ordered in pack size 10 or pack size 100*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x80 Heavy





TCBE 40x80 G / TCBE 40x80 B

Profile, 40x80 Heavy
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBH 3x40x80**
Length 6070 mm ± 5 mm	**TCBH 6x40x80**
Length to order (30-6000 mm)	**TCBH Lx40x80**
End cap, grey	**TCBE 40x80 G***
End cap, black	**TCBE 40x80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

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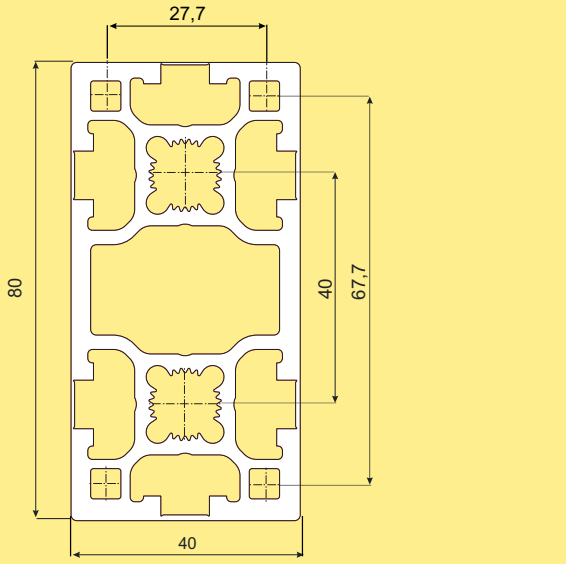
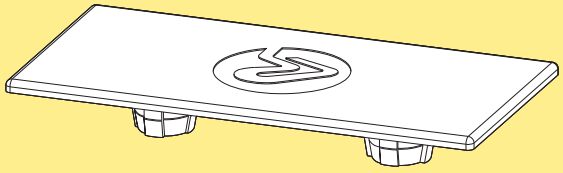
Profile, 40x80 Heavy, Closed





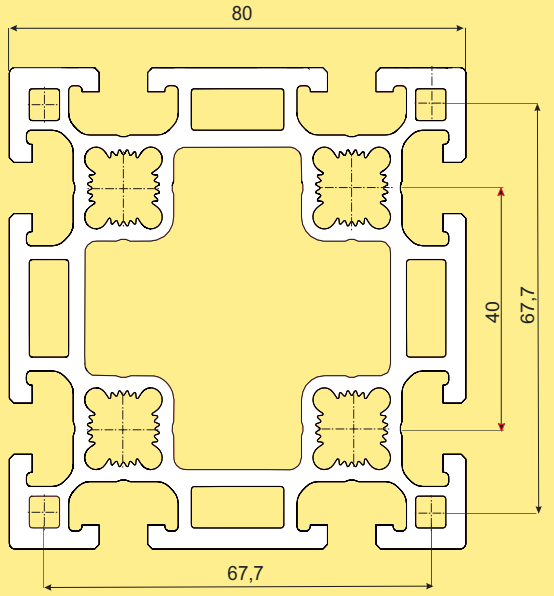
TCBE 40x80 G / TCBE 40x80 B

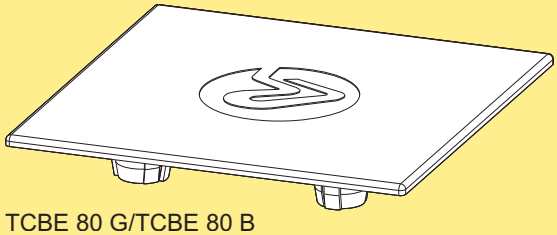
Profile, 40x80 Heavy, Closed	
Aluminum, anodized	
Length 3030 mm ± 5 mm	**TCBH 3x40x80 C**
Length 6070 mm ± 5 mm	**TCBH 6x40x80 C**
Length to order (30-6000 mm)	**TCBH Lx40x80 C**
End cap, grey	**TCBE 40x80 G***
End cap, black	**TCBE 40x80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 80x80 Heavy





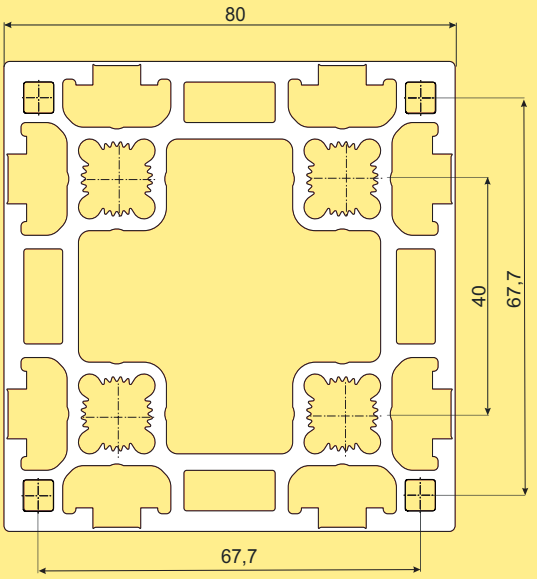
TCBE 80 G/TCBE 80 B

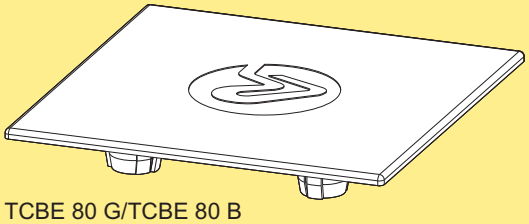
Profile, 80x80 Heavy	
Aluminum, anodized	
Length 3030 mm ± 5 mm	**TCBH 3x80**
Length 6070 mm ± 5 mm	**TCBH 6x80**
Length to order (30-6000 mm)	**TCBH Lx80**
End cap, grey	**TCBE 80 G***
End cap, black	**TCBE 80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 80x80 Heavy, Closed





TCBE 80 G/TCBE 80 B

Profile, 80x80 Heavy, Closed	
Aluminum, anodized	
Length 3030 mm ± 5 mm	**TCBH 3x80 C**
Length 6070 mm ± 5 mm	**TCBH 6x80 C**
Length to order (30-6000 mm)	**TCBH Lx80 C**
End cap, grey	**TCBE 80 G***
End cap, black	**TCBE 80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

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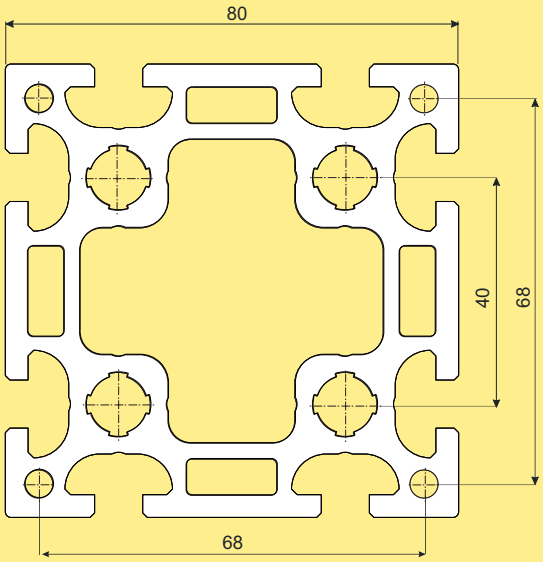
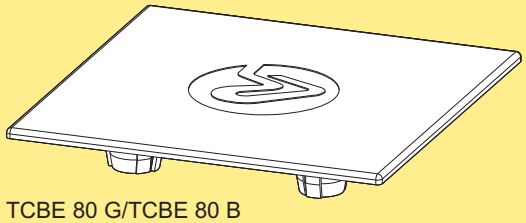
Profile, 80x80 Ultra





TCBE 80 G/TCBE 80 B

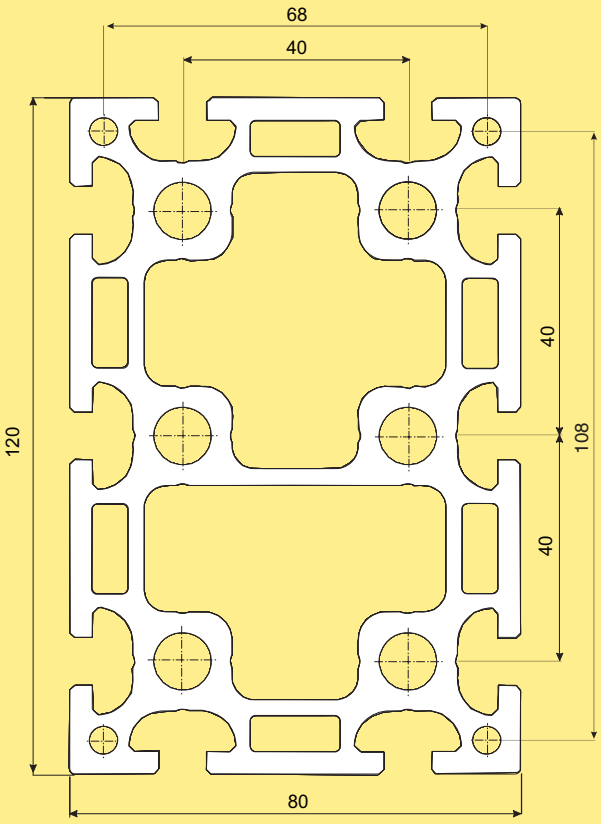
Profile, 80x80 Ultra
Aluminum, anodized

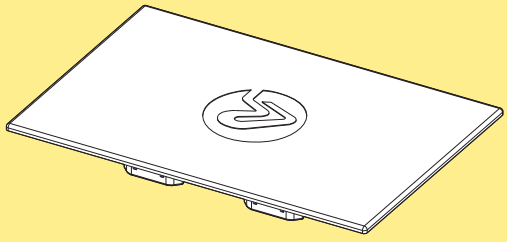
Length 3030 mm ± 5 mm	**TCBU 3x80**
Length 6070 mm ± 5 mm	**TCBU 6x80**
Length to order (30-6000 mm)	**TCBU Lx80**
End cap, grey	**TCBE 80 G***
End cap, black	**TCBE 80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 80x120 Ultra





TCBE 80x120 G/TCBE 80x120 B

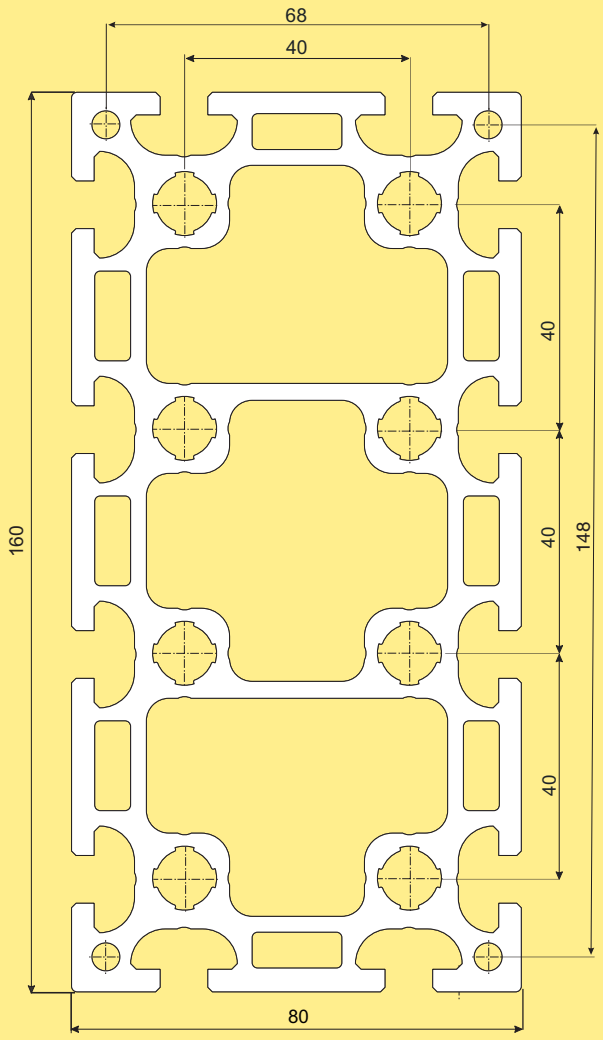
Profile, 80x120 Ultra
Aluminum, anodized

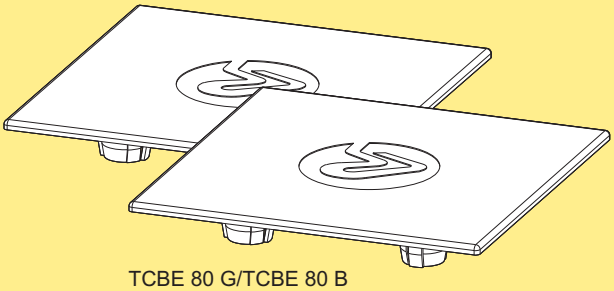
Length 3030 mm ± 5 mm	**TCBU 3x80x120**
Length 6070 mm ± 5 mm	**TCBU 6x80x120**
Length to order (30-6000 mm)	**TCBU Lx80x120**
End cap, grey	**TCBE 80x120 G***
End cap, black	**TCBE 80x120 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 80x160 Ultra





TCBE 80 G/TCBE 80 B

Profile, 80x160 Ultra
Aluminum, anodized

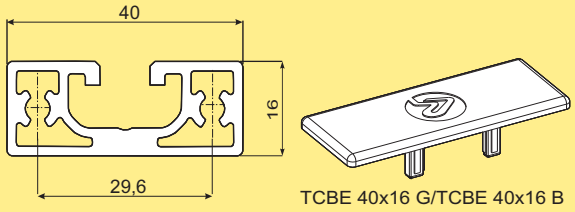
Length 3030 mm ± 5 mm	**TCBU 3x80x160**
Length 6070 mm ± 5 mm	**TCBU 6x80x160**
Length to order (30-6000 mm)	**TCBU Lx80x160**
End cap, grey (2 pcs)	**TCBE 80 G***
End cap, black (2 pcs)	**TCBE 80 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

 © FlexLink 2021

Profile, 40x16 Basic



TCBE 40x16 G/TCBE 40x16 B

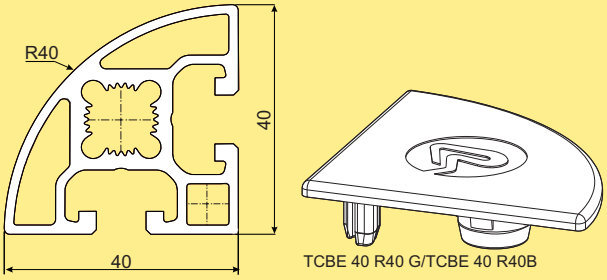
Profile, 40x16 Basic
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBB 3x40x16**
Length 6070 mm ± 5 mm	**TCBB 6x40x16**
Length to order (30-6000 mm)	**TCBB Lx40x16**
End cap, grey	**TCBE 40x16 G***
End cap, black	**TCBE 40x16 B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x40x90° R40 Basic



TCBE 40 R40 G/TCBE 40 R40B

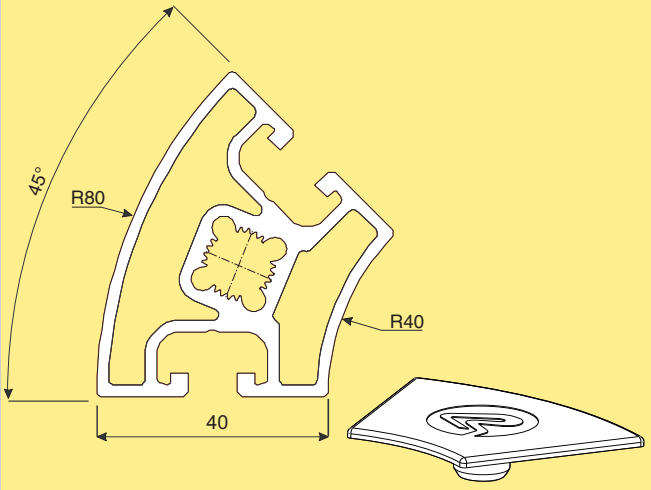
Profile, 40x40 / 90° R40 Basic
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBR 3x40**
Length 6070 mm ± 5 mm	**TCBR 6x40**
Length to order (30-6000 mm)	**TCBR Lx40**
End cap, grey	**TCBE 40 R40G***
End cap, black	**TCBE 40 R40B***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x56x45° R80 Basic



TCBE 56 RG/TCBE 56 RB

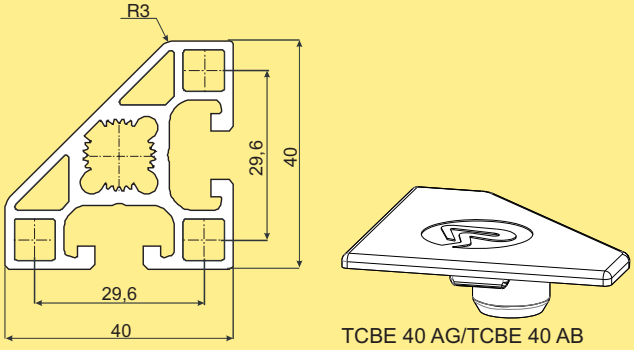
Profile, 40x56 / 45° R80 Basic
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBR 3x56**
Length 6070 mm ± 5 mm	**TCBR 6x56**
Length to order (30-6000 mm)	**TCBR Lx56**
End cap, grey	**TCBE 56 RG ***
End cap, black	**TCBE 56 RB***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x40x90° R40 Basic



TCBE 40 AG/TCBE 40 AB

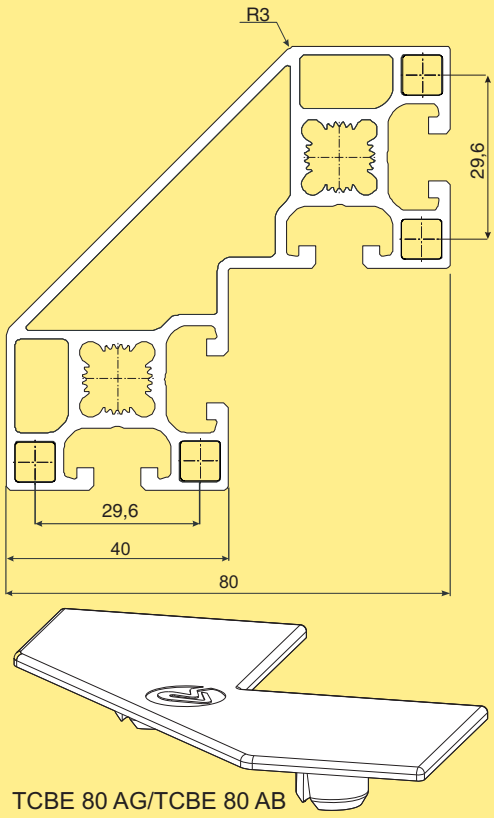
Profile, 40x40 / 90° R40 Basic
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBA 3x40**
Length 6070 mm ± 5 mm	**TCBA 6x40**
Length to order (30-6000 mm)	**TCBA Lx40**
End cap, grey	**TCBE 40 AG***
End cap, black	**TCBE 40 AB***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 80x80x90° Basic



TCBE 80 AG/TCBE 80 AB

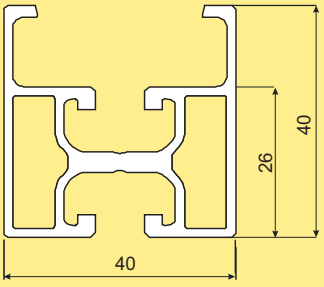
Profile, 80x8 / 90° Basic
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBA 3x80**
Length 6070 mm ± 5 mm	**TCBA 6x80**
Length to order (30-6000 mm)	**TCBA Lx80**
End cap, grey	**TCBE 80 AG***
End cap, black	**TCBE 80 AB***

* *Must be ordered in pack size 10*

Profile data, see "Profile data" on page 149
End cap: see "Dimensions End caps" on page 27

Profile, 40x40 MC

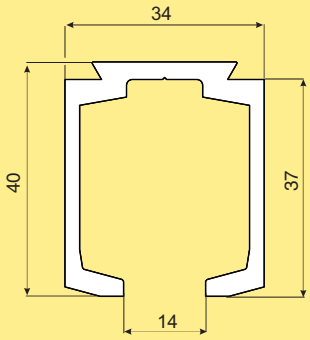


Profile, 40x40 MC
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBS 3x40 MC**
Length 6070 mm ± 5 mm	**TCBS 6x40 MC**
Length to order (30-6000 mm)	**TCBS Lx40 MC**

Profile data, see "Profile data" on page 149

Profile for sliding door, 34x40



Profile for sliding door, 34x40
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCBP 3x34x40**
Length 6070 mm ± 5 mm	**TCBP 6x34x40**
Length to order (30-6000 mm)	**TCBP Lx34x40**

Profile data, see "Profile data" on page 149

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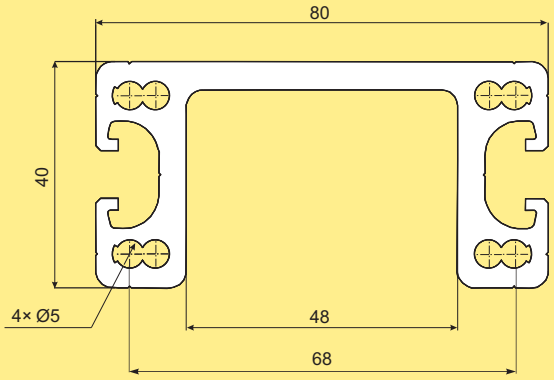
- Special profiles for assembling roller conveyors in 40x80mm and 40x120mm size.

Profile, 40x80Roller conveyor

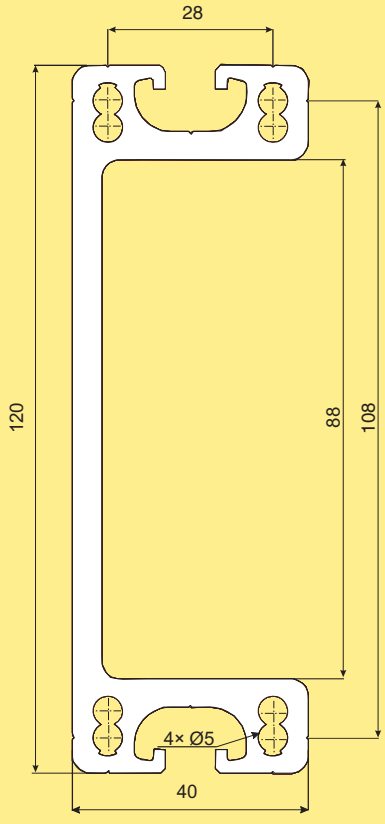


Profile, Roller conveyor
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCRC 3x40x80**
Length 6070 mm ± 5 mm	**TCRC 6x40x80**
Length to order (30-6000 mm)	**TCRC Lx40x80**

Profile data, see "Profile data" on page 149

Profile, 40x120 Roller conveyor

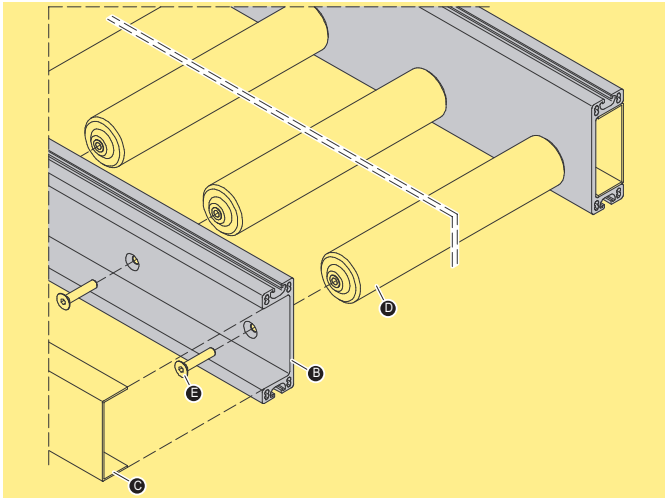


Profile, Roller conveyor
Aluminum, anodized

Length 3030 mm ± 5 mm	**TCRC 3x40x120**
Length 6070 mm ± 5 mm	**TCRC 6x40x120**
Length to order (30-6000 mm)	**TCRC Lx40x120**

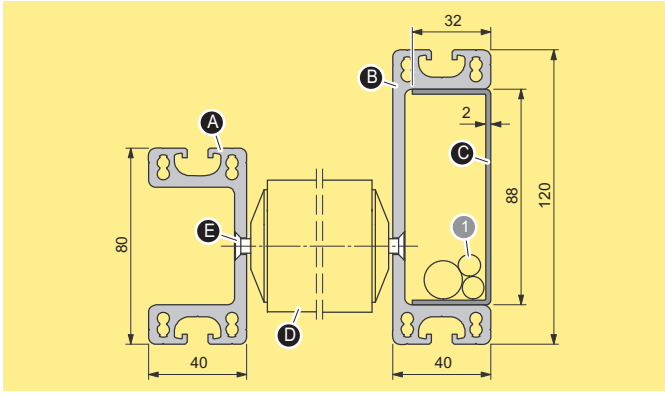
Profile data, see "Profile data" on page 149

Assembly



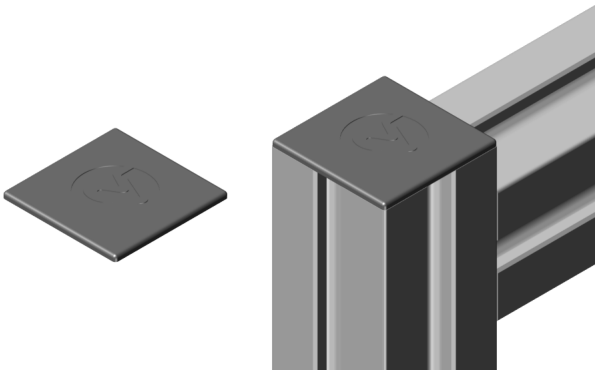
Part list	
A	Roller-conveyor profile, 40x80mm
B	Roller-conveyor profile, 40x120mm
C	Cover plate (only for roller-conveyor profile, 40x120mm) (Not in FlexLink's regular assortment, own production.)
D	Conveyor roller with M8 thread
E	M8x20 countersunk-head screw

Dimensions



1	Power and control lines

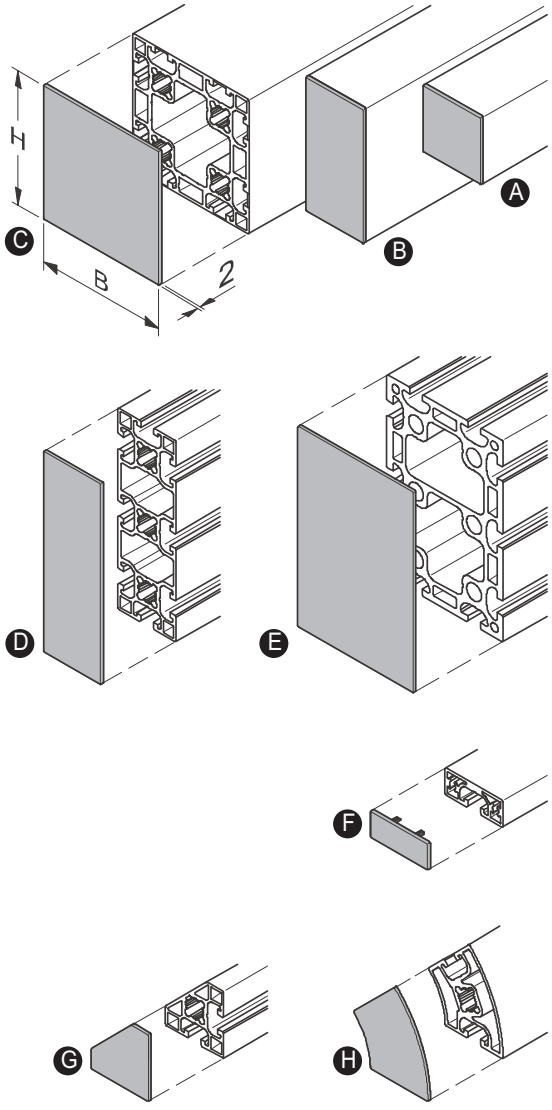
End caps



- End caps:
  - close off profile end faces
  - prevent ingress of dirt
  - prevent cuts.
- Aesthetically pleasing design: rounded End caps in shallow, flat geometry.
- Rational: No need to deburr cut surface.
- End caps are pressed / knocked into the screw channels.

Silver grey (similar to RAL 7001)

Black (similar to RAL 9005)



Part list

A) End cap, 40x40 mm

B) End cap, 40x80 mm

C) End cap, 80x80 mm

D) End cap, 40x120 mm

E) End cap, 80x120 mm

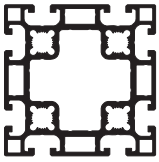
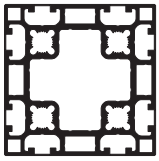
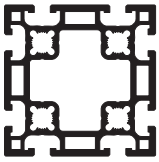
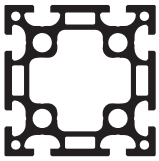
F) End cap, 40x16 mm

G) End cap, 40x40/ 90° mm

H) End cap, 40/45°/R80 mm

Dimensions End caps

				1) Grey	2) Black	mm
(L) Light	TCBL...x40		A	TCBE 40 G	TCBE 40 B	40x40 t=2 mm
	TCBL...x40x80		B	TCBE 40x80 G	TCBE 40 B	40x80 t=2 mm
(B) Basic	TCB...x40x16		F	TCBE 40x16 G	TCBE 40x16 B	40x16 t=2 mm
	TCBB...x40		A	TCBE 40 G	TCBE 40 B	40x40 t=2 mm
	TCBB...x40 T		A	TCBE 40 G	TCBE 40 B	40x40 t=2 mm
	TCBB...x40 L		A	TCBE 40 G	TCBE 40 B	40x40 t=2 mm
	TCBB...x40 U		A	TCBE 40 G	TCBE 40 B	40x40 t=2 mm
	TCBB...x40 C		A	TCBE 40 G	TCBE 40 B	40x40 t=2 mm
	TCBB...x40 Z		A	TCBE 40 G	TCBE 40 G	40x40 t=2 mm
	TCBA...x40		G	TCBE 40 AG	TCBE 40 AB	40x40/90° t=2 mm
	TCBR...x56		H	TCBE 56 RG	TCBE 56 RB	40x45°R80 t=2 mm
	TCBB...x40x80		B	TCBE 40x80 G	TCBE 40x80 B	40x80 t=2 mm
	TCBB...x40x80 L		B	TCBE 40x80 G	TCBE 40x80 B	40x80 t=2 mm

				1) Grey	2) Black	mm
(B) Basic	TCBB...x40x80 C		B	TCBE 40x80 G	TCBE 40x80 B	40x80 t=2 mm
	TCBB...x40x120		D	TCBE 40x120 G	TCBE 40x120 B	40x120 t=2 mm
	TCBB...x40x160		2xB	TCBE 40x80 G	TCBE 40x80 B	40x80 t=2 mm
	TCBB...x80		C	TCBE 80 G	TCBE 80 B	80x80 t=2 mm
	TCCB...x80 C		C	TCBE 80 G	TCBE 80 B	80x80 t=2 mm
(H) Heavy	TCBH...x40		A	TCBE 40 G	TCBE 40 B	40x40 t=2 mm
	TCBH...x40 C		A	TCBE 40 G	TCBE 40 B	40x40 t=2 mm
	TCBH...x40x80		B	TCBE 40x80 G	TCBE 40x80 B	40x80 t=2 mm
	TCBH...x40x80 C		B	TCBE 40x80 G	TCBE 40x80 B	40x80 t=2 mm
	TCBH...x80		C	TCBE 80 G	TCBE 80 B	80x80 t=2 mm
	TCBU...x80 C		C	TCBE 80 G	TCBE 80 B	80x80 t=2 mm
(U) Ultra	TCBU...x80		C	TCBE 80 G	TCBE 80 B	80x80 t=2 mm

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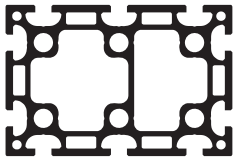
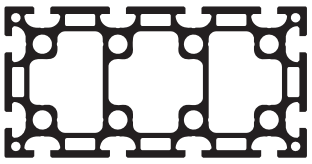
				1) Grey	2) Black	mm
(U) Ultra	TCBU...x80x120		E	TCBE 80x120 G	TCBE 80x120 B	80x120 t=2 mm
	TCBU...x80x160		2xC	TCBE 80 G	TCBE 80 B	80x80 t=2 mm
Silver grey (similar to RAL 7001) Black (similar to RAL 9005)						

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Plastic extrusion profiles

Contents

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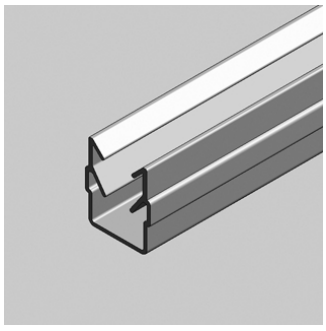
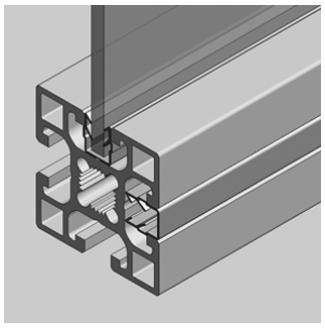
Table support profiles TC40 32
Bumber profiles TC40 33
Slot cover profiles TC40 34
Frame profile TC40 35
Rim strip TC40 36
Screw channel TC40 37

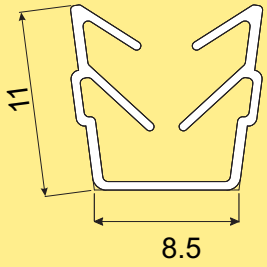
Cover and frame profile TC40





- One profile for two applications:
  - used as a cover profile (1), it closes off profile slots to prevent ingress of coarse dirt.
  - with open side facing out, it can be used as frame profile (2) for panel elements.
- Cover and frame profiles are fitted by pressing/ knocking them into the system slots.

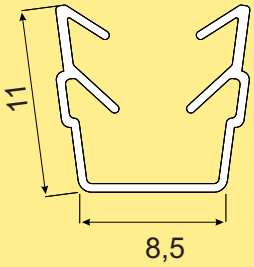
Net strip 2-3 mm, grey



Net strip 2-3 mm, grey
Length 2 m

TCET 2 AG

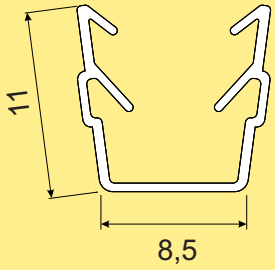
Net strip 4 mm, grey



Net strip 4 mm, grey
Length 2 m

TCET 2 BG

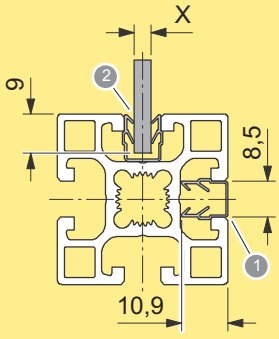
Net strip, 5 mm, grey



Net strip, 5 mm, grey
Length 2 m

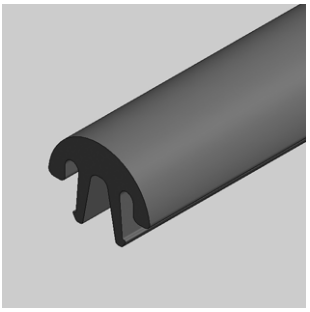
TCET 2 CG

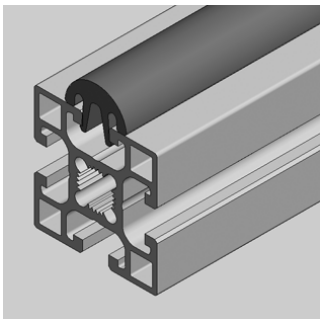
Dimensions



1	For use as cover profile
2	For use as frame profile

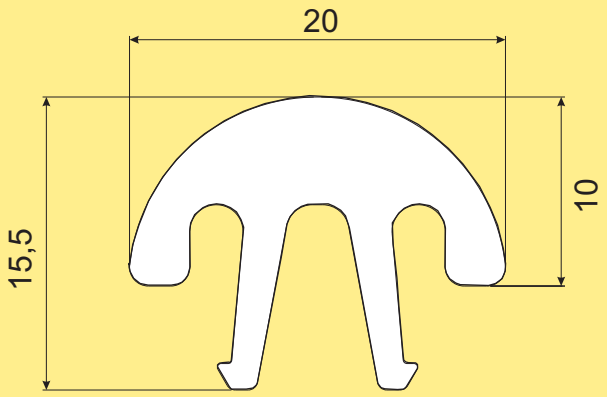
Table support profile TC40





- Table support profile prevents damage to item resting on it.
- Abrasion-resistant surface.
- Other colours available on request.
- Table support profiles are pressed/ knocked into the system slots

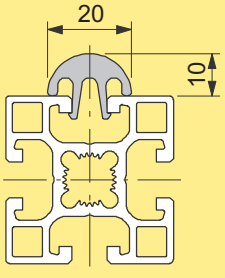
Support rail, Table support, black



Support rail, Table support, black

Length 6 m	**TCAP 6x10x20 B**
Length to order (30-6000 mm)	**TCAP Lx10x20 B**

Dimensions



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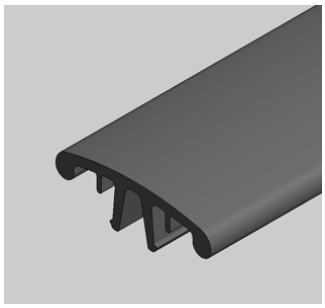
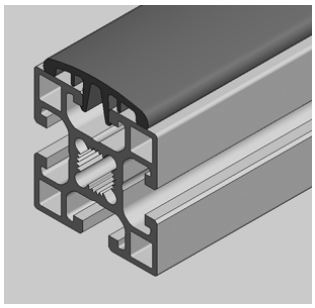
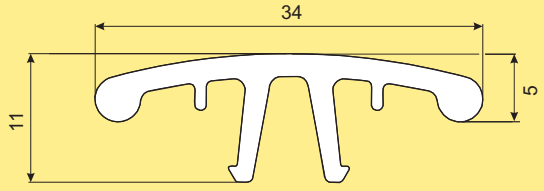
Bumper profile TC40





- Butt profiles provide a protective edge on frames, doors or devices.
- Abrasion-resistant surface.
- Other colours are available on request.
- Butt profiles are pressed/ knocked into the system slots.

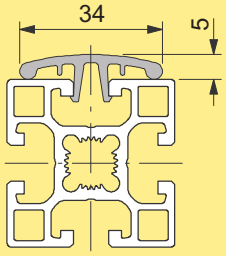
Support rail, Bumper profile, black



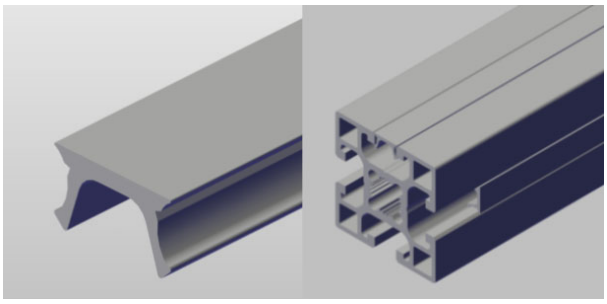
Support rail, bumper profile, black

Length 6 m	**TCAP 6x5x34 B**
Length to order (30-6000 mm)	**TCAP Lx5x34 B**

Dimensions

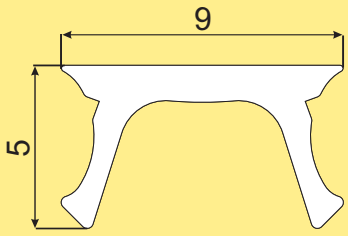


Slot cover profile TC40



- Slot cover profile for closing off profile slots for aesthetic and practical reasons:
  - easier to keep clean
  - concealed wiring.
- Cover profiles are pressed/ knocked into the system slots.

Sliding profile, Silver

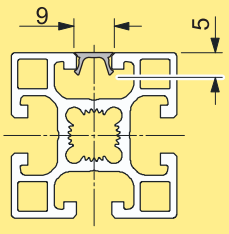


Sliding profile, Silver
Length 2 m

TCAC 2

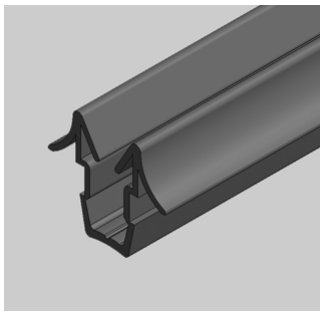
Note: Pack size 1.

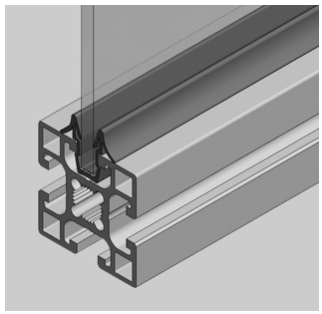
Dimensions



 © FlexLink 2021

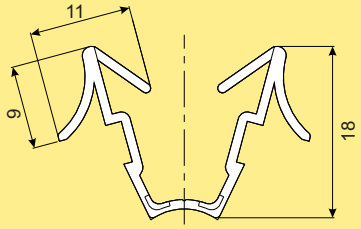
Frame profile TC40





- For installing panel material of different thicknesses directly in profile slot. Profile frame is mounted around panel material.
- Assembly:
  - Fit frame profiles with mitred or butt joint.
  - To facilitate mounting panel material, hold upper part of edges or spray with lubricant (e.g.silicone spray).

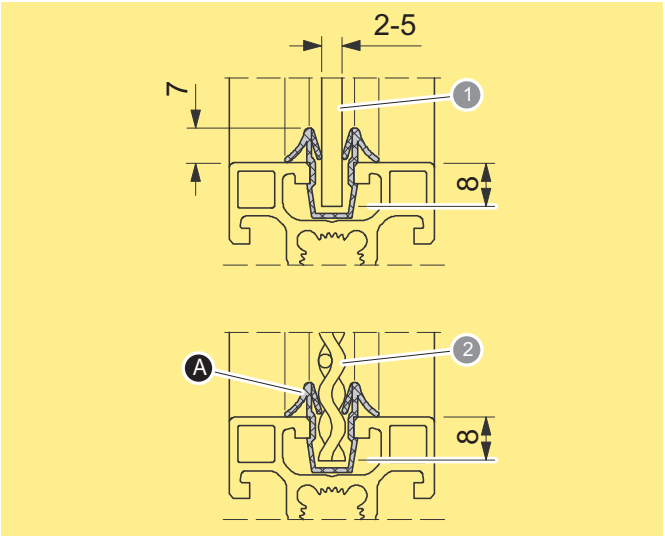
Net strip, 2-5 mm



Net strip, 2-5 mm
Length 2 m
Note: Pack size 1.

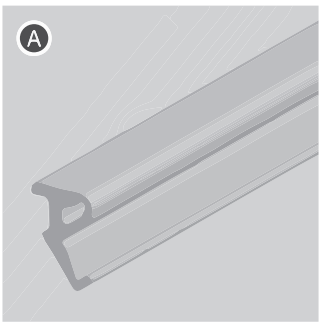
TCET 2 EB

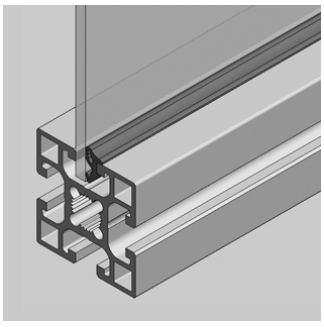
Dimensions



Part list	
A	Frame profile
1	Panel material
2	Rippled grid

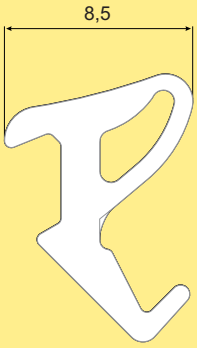
Rim strip TC40





- For installing panel material of different thicknesses directly in profile slot. Profile frame is mounted around panel material.
- Assembly:
  - Starting at centre of upper profile, press in seal all the way round.
  - No cutting is necessary at corners.
- The seal fitter (Part. no TTSF 170) facilitates installation.

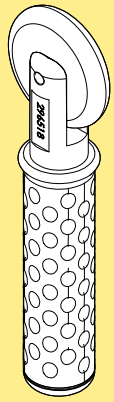
Rim strip, Push-in seal 3 - 5 mm, grey or black



Rim strip, Push-in seal 3- 5 mm, black
Length 100 m **TCET 100 FB**

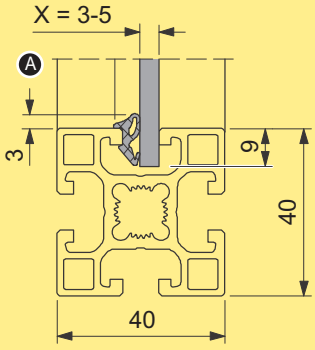
Rim strip, Push-in seal 3- 5 mm, grey
Length 100 m **TCET 100 FG**

Mounting tool, seal fitter



Mounting tool, seal fitter **TTSF 170**

Dimensions



Part list	
A	Push-in seal, 3-5 mm Silver grey Push-in seal, 3-5 mm Black
B	Seal fitter

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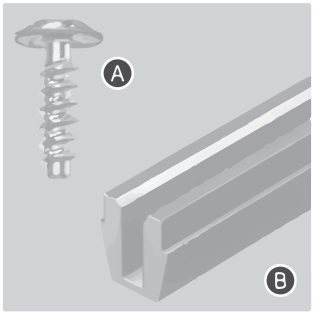
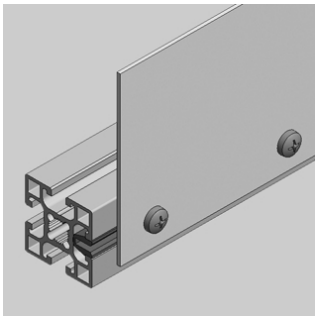
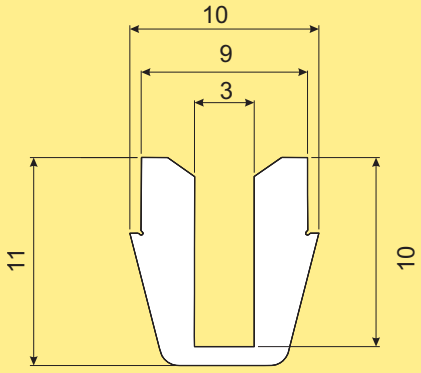
Screw channel TC40





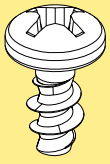
- For mounting construction parts and accessories.
- Any length of screw channel can be clipped into the profile. This also makes it possible to provide screwed joints at irregular intervals throughout the length of the profile.
- PD screws with low screw-in torque.
- High pull-out forces

Screw channel profile



Screw channel profile, Black
Length 2 m **TCEF 2 B**

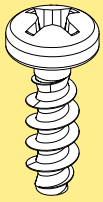
Self tapping screw, PD 6x12 mm



Self tapping screw, PD 6x12 mm **TCPD 6x12***

* Must be ordered in pack size 100

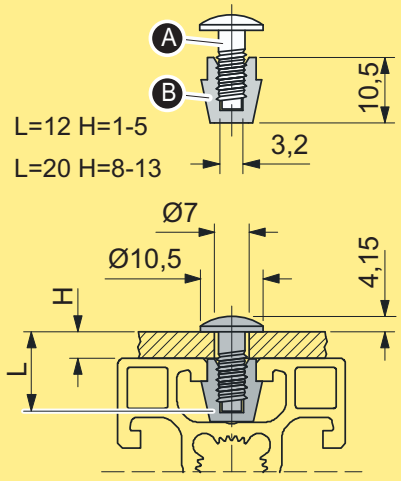
Self tapping screw, PD 6x20 mm



Self tapping screw, PD 6x20 mm **TCPD 6x20***

* Must be ordered in pack size 100

Dimensions



Part list	
A	PD screw
B	Screw channel

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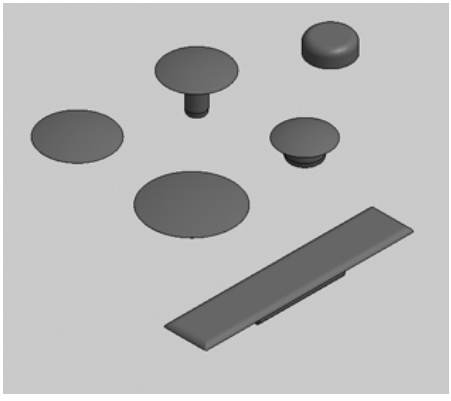
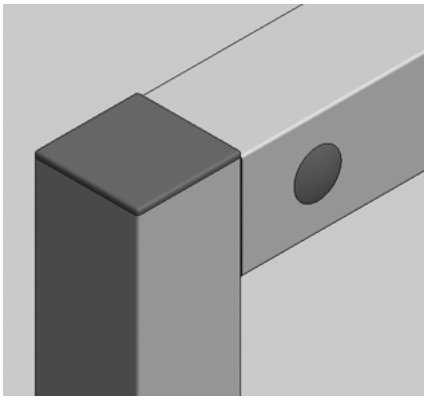
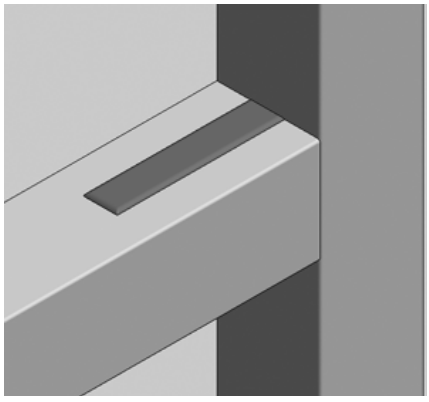
End caps and plugs,TC40 for connecting elements

Contents

End caps and plugs 40

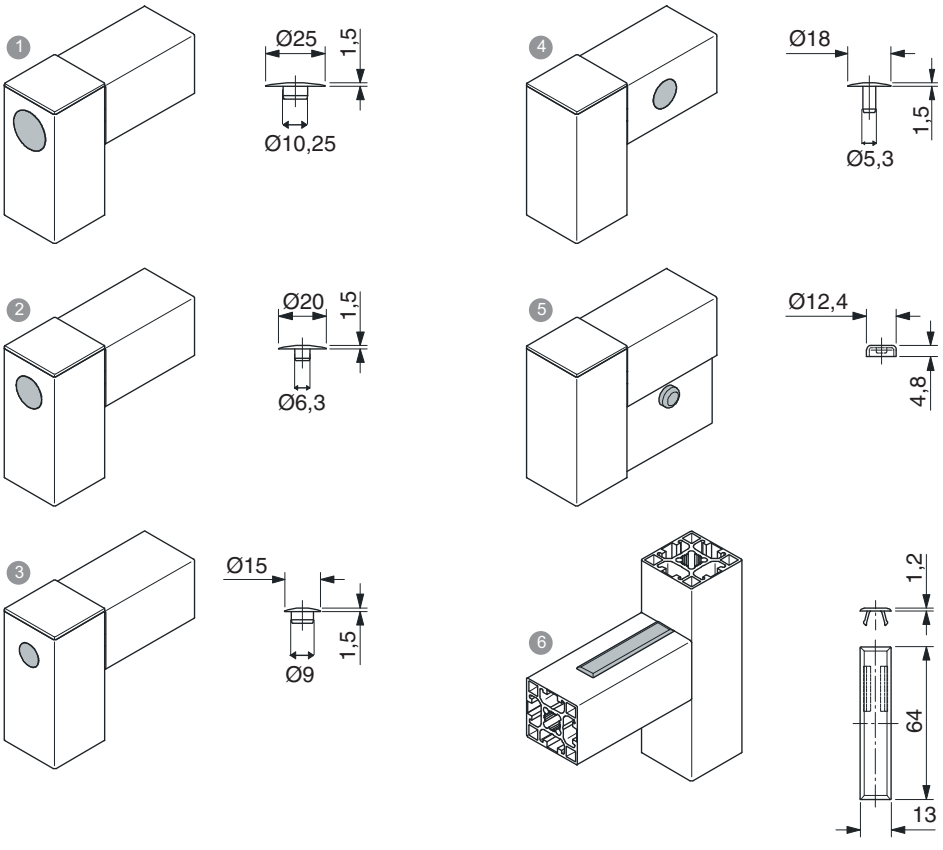






Caps for covering connecting elements to provide an aesthetically pleasing finish.

Dimensions



		Grey	Black	Material
1	Screwed joint, M12	TCBE M12 G	TCBE M12 B	PA6
2	M8 screwed joint	TCBE M8 G	TCBE M8 B	
3	M12 clamped joint	TCBE M12CJ G	TCBE M12CJ B	
4	Central joint	TCBE EC14 G	TCBE EC14 B	
5	M6 ULS screw ISO 7380 M6	TCBE M6 G	TCBE M6 B	
6	Universal joint	TCBE UJ64 G	TCBE UJ64 B	

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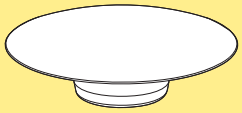
End caps and plugs

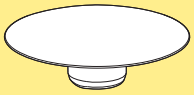
Plug, Screwed joint M12, grey or black



Plug, Screwed joint M12, grey	**TCBE M12 G**
Plug, Screwed joint M12, black	**TCBE M12 B**

Pack size 100 pcs

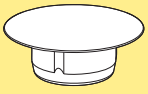
Plug, Screwed joint M8, grey or black



Plug, Screwed joint M8, grey	**TCBE M8 G**
Plug, Screwed joint M8, black	**TCBE M8 B**

Pack size 100 pcs

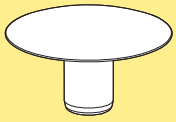
Plug, Clamped joint M12, grey or black



Plug, Clamped joint M12, grey	**TCBE M12CJ G**
Plug, Clamped joint M12, black	**TCBE M12CJ B**

Pack size 100 pcs

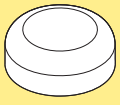
Plug, Central joint, grey or black



Plug, Central joint, grey	**TCBE EC14 G**
Plug, Central joint, black	**TCBE EC14 B**

Pack size 100 pcs

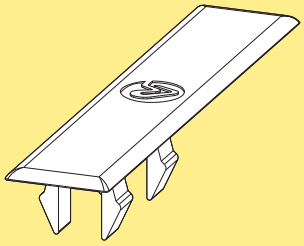
Plug, for screw ISO 7380 M6, grey or black



Plug, for screw ISO 7380 M6, grey	**TCBE M6 G**
Plug, for screw ISO 7380 M6, black	**TCBE M6 B**

Pack size 100 pcs

End cap, Universal joint, grey or black



End cap, Universal joint, grey	**TCBE UJ64 G**
End cap, Universal joint, black	**TCBE UJ64 B**

Pack size 10 pcs

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Connecting system TC40

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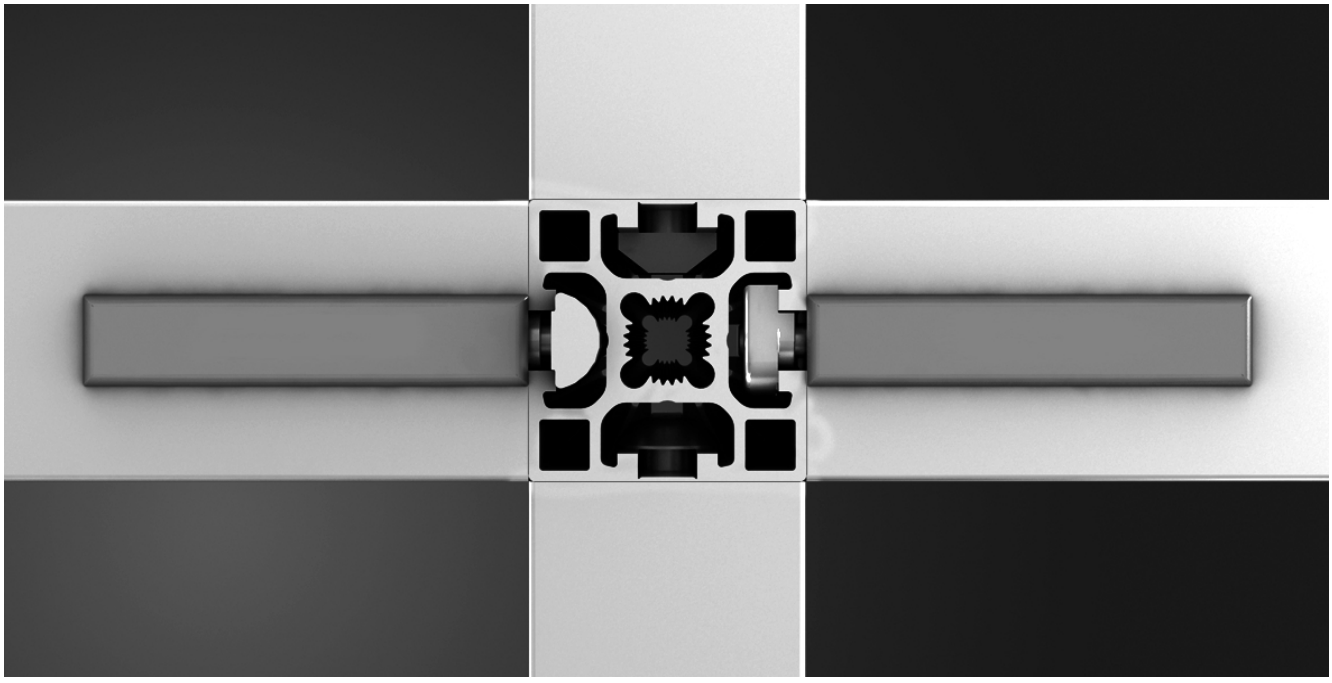
Connecting elements TC40 without profile machining



Jointing elements from the modular TC40 system can be used for joining TC40 profiles.

In terms of rationalisation (i.e.avoid the need for machining), fast assembly and aesthetics, we recommend the following joints in particular:

Universal joint

- for connecting profiles with open and closed profile slots,
- without milling and drilling work,
- can also be retrofitted.

Central joint

- for high-load joints,
- with small amount of machining work.

Corner and angled joints

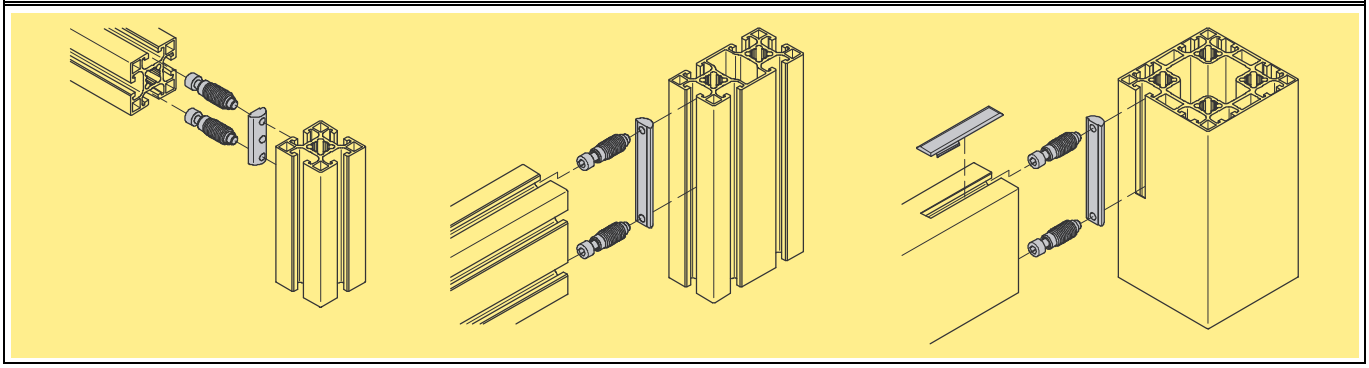
- for high loads,
- to achieve force-locked connection between profiles,
- without profile machining.

Screwed joints

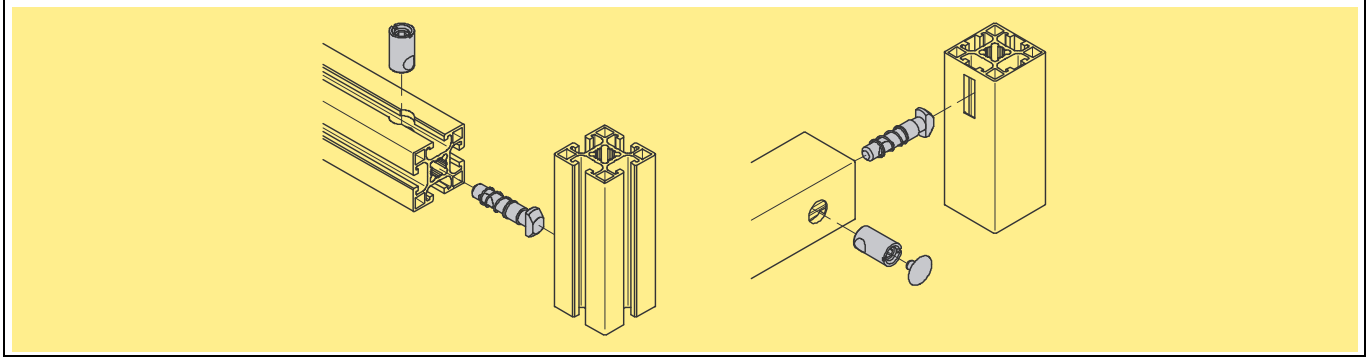
- for high-load joints
- fast assembling after drilling

Summary of Joints TC40

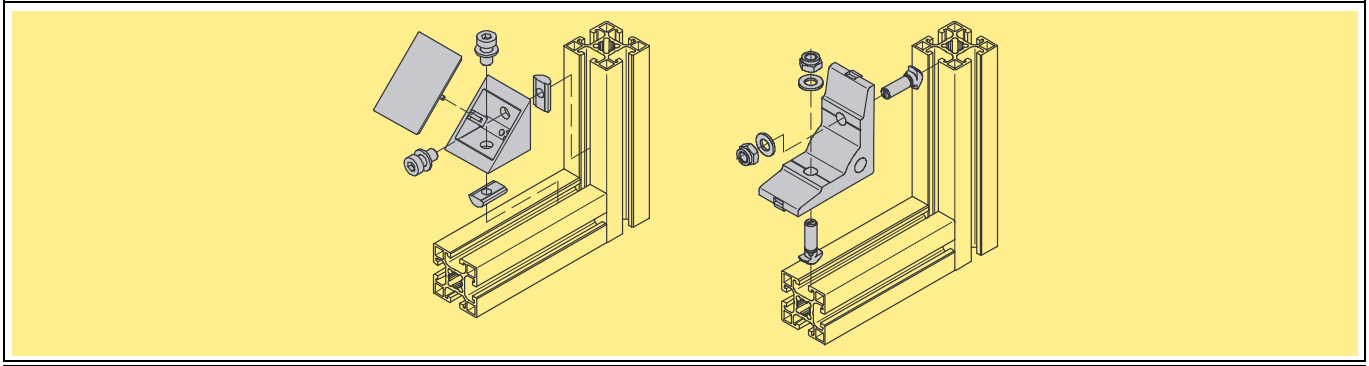
Universal joints



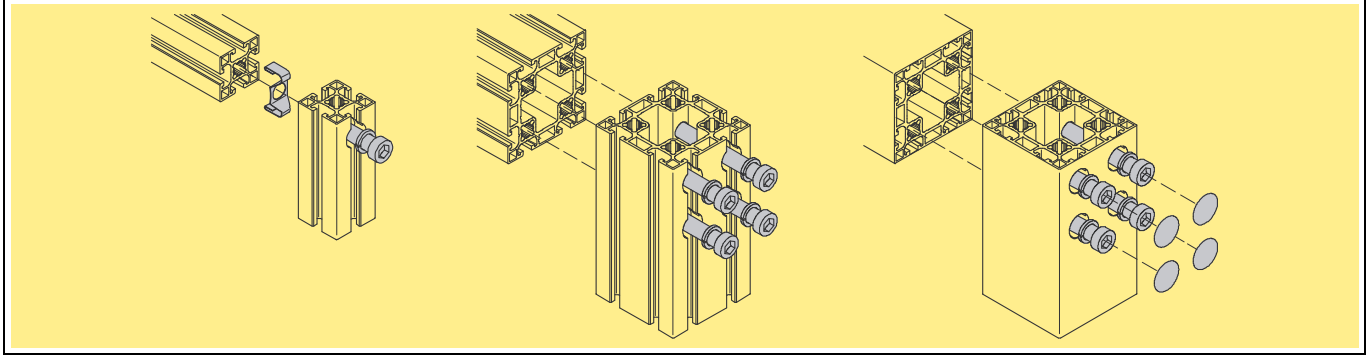
Central joints



Corner and angled joints



M12 screwed joints



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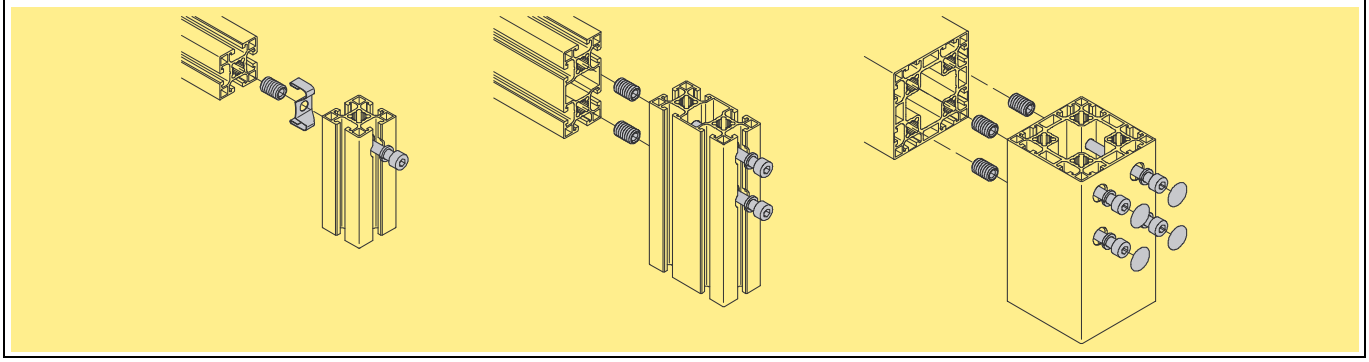
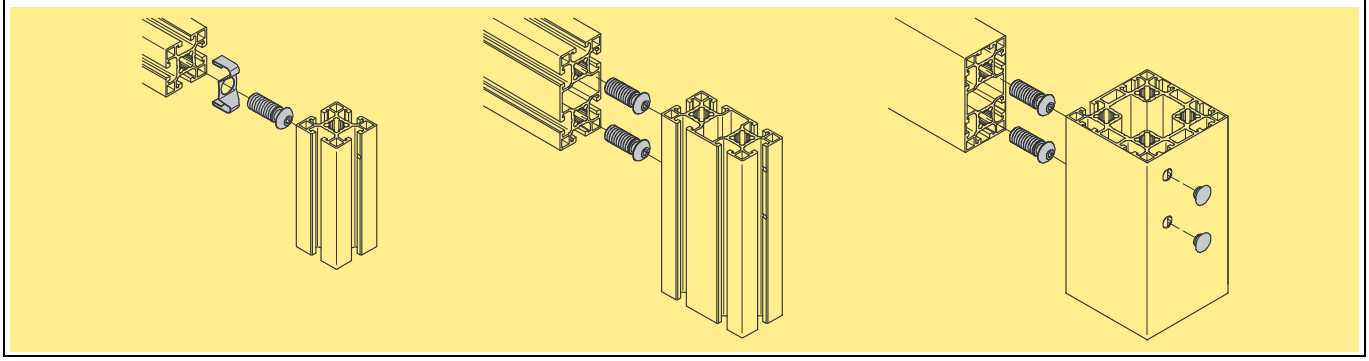
Summary of Joints TC40 (continued)

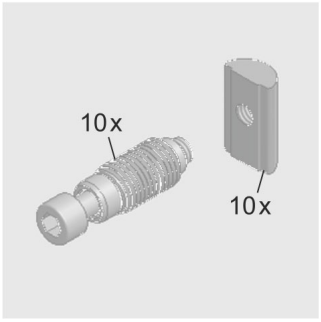
M8 screwed joints

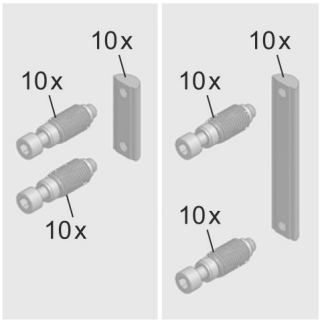


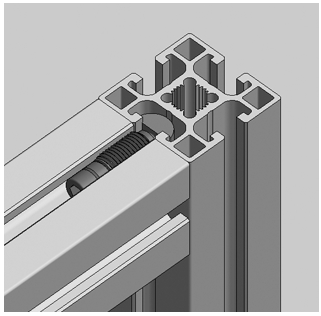
M12 clamped joints



Universal joint TC40

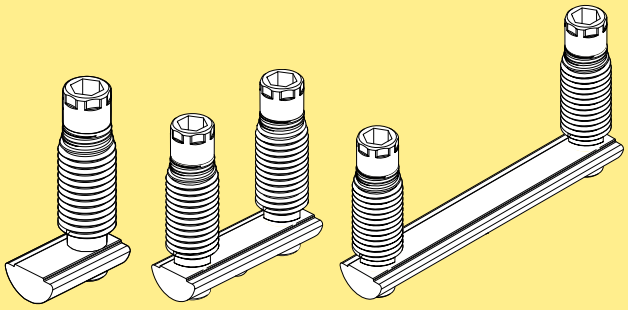






- For right-angled profile joints.
- Fast installation and high joint strength.
- Suitable for retrofitting profiles in closed frames.
- No machining work necessary to open profiles.
- Rotation prevented by fitting two single joints.

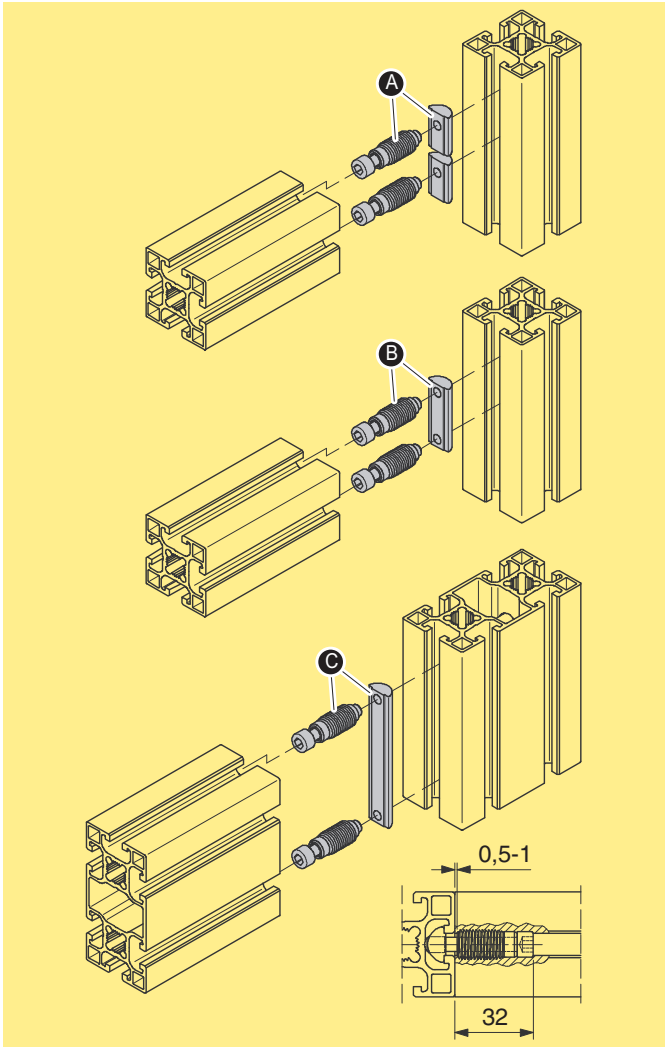
Universal joint, variable



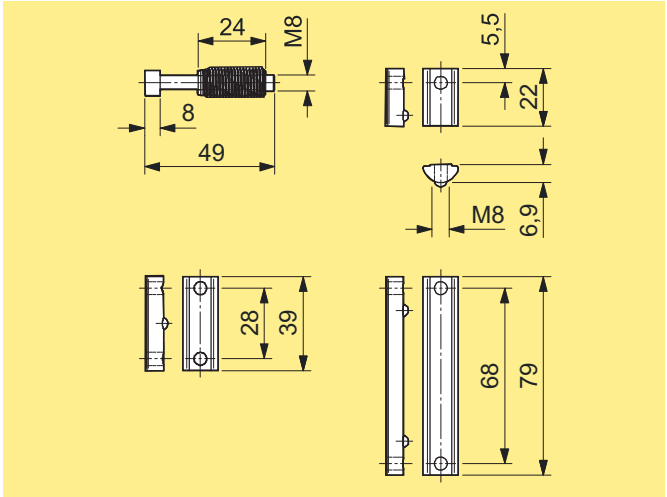
Universal joint, variable	**TCUJ 20***
Universal joint, variable	**TCUJ 40***
Universal joint, variable	**TCUJ 80***

** Must be ordered in pack size 10*

Assembly



Dimensions



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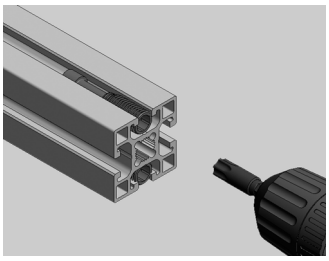
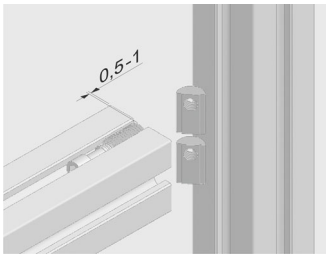
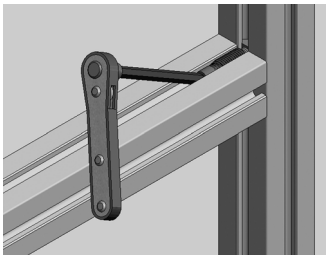
Mounting Universal joints TC40



Step 1:
Turn universal joint into the profile slot up to a depth of 1mm from the end face (TTSD 50x50).

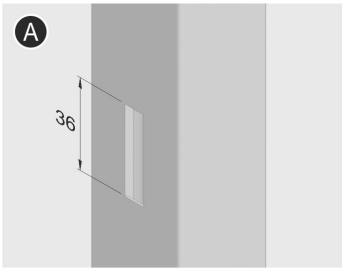


Step 2:
Swing T-slot nut into the slot in the continuous profile and move to the appropriate position.

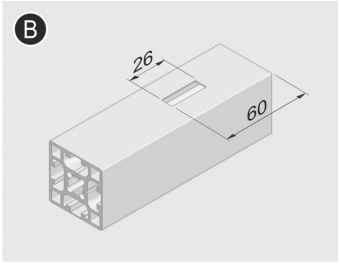


Step 3:
Drive screw into the T-slot nut (fitted beforehand) and tighten. For this purpose, use mini bit ratchet (TTSD 98) and 6-mm ball-head hexagon socket (TTSD 6x98).

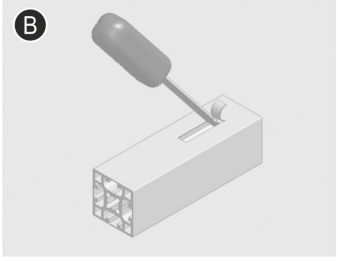
Mounting Universal joints TC40, BC, HC



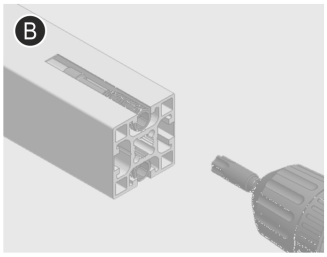
Step 1:
Using hand punch, open slot cover on the continuous profile (A).



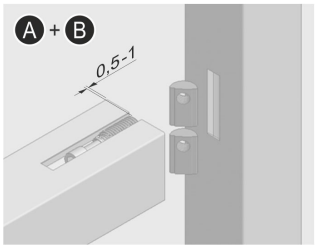
Step 2:
Using hand punch, open slot cover on the profile (B) being connected. For this purpose, use the end stop.



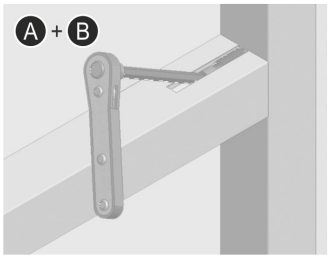
Step 3:
Break open the remaining slot cover to the end of the profile, e.g. using a screwdriver.



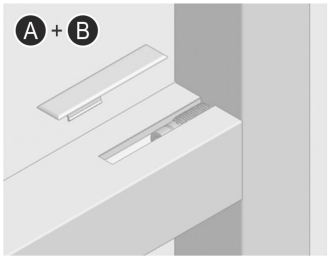
Step 4:
Turn universal joint into the profile slot up to a depth of 1mm from the end face.
(TTSD 50x50)



Step 5:
Swing T-slot nut into the opened slot in the continuous profile and move to the appropriate position

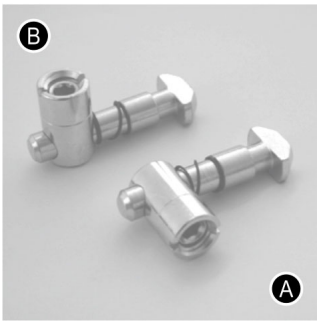


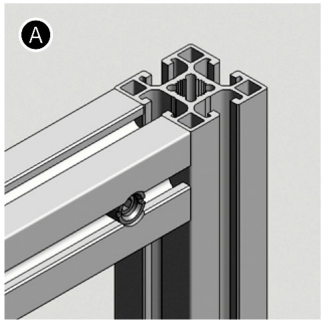
Step 6:
Drive screw into the T-slot nut (fitted beforehand) and tighten.

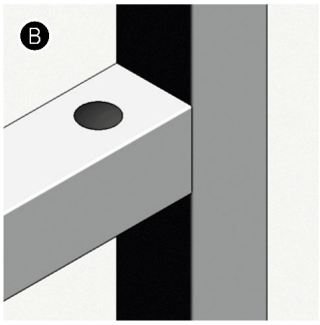


Step 7:
Press end cap on over the slot opening.
(TCBE UJ64 G, TCBE UJ64 B)

Central joint TC40, 90° rigid

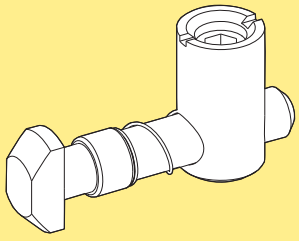






- For right-angled profile joints.
- Flexible positioning.
- Plug for closed profiles.
- Profile machining necessary.

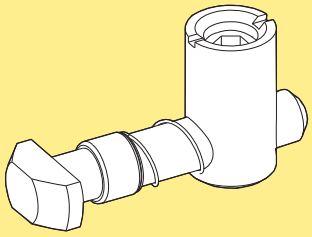
Central joint, 90°, external



Central joint, 90°, external **TCEC 14 E***

** Must be ordered in pack size 10*

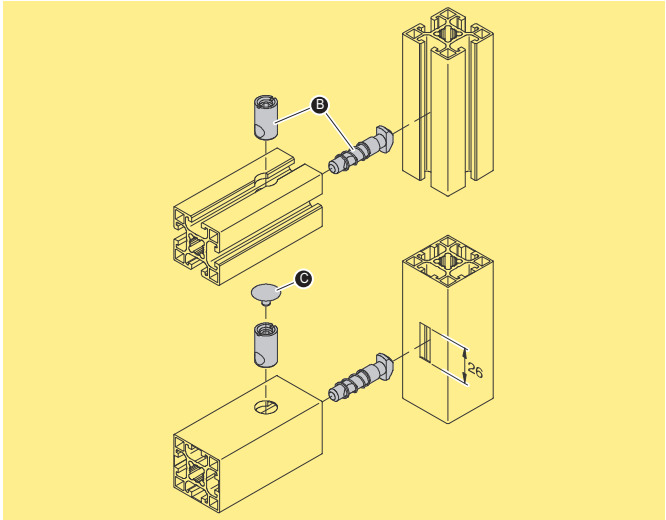
Central joint, 90°, internal



Central joint, 90°, internal **TCEC 14 I***

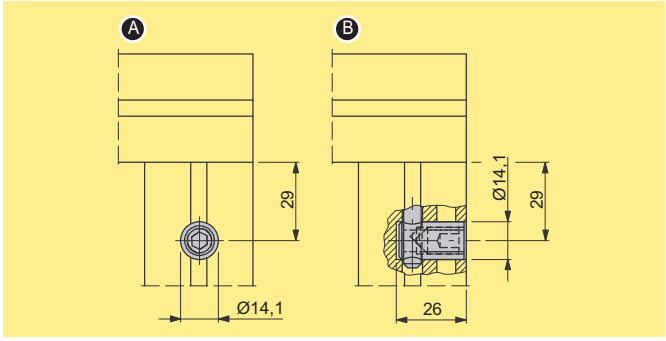
** Must be ordered in pack size 10*

Assembly



Part list	
A	External joint
B	Internal joint
C	Plug TCBE EC14 G or TCBE EC14 B

Machining



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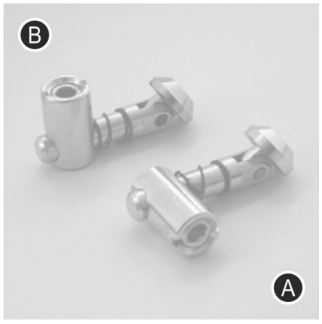
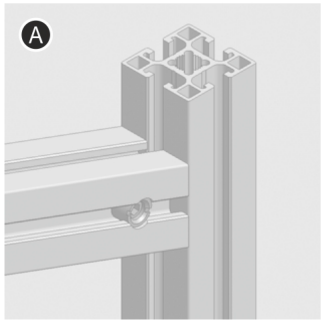
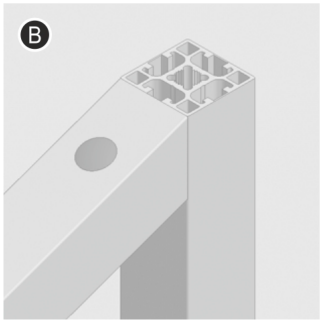
Central joint TC40, 30°- 90°, articulated

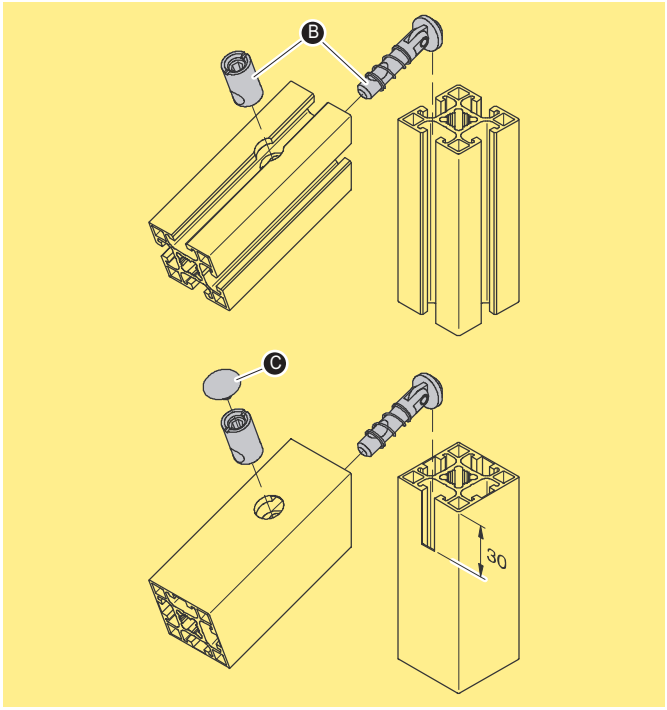






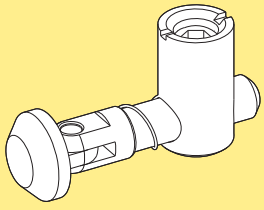
- For profile joints at angles of 30°-90°.
- Joint must be pushed into system slot at end face.
- Flexible positioning.
- Plug for closed profiles.
- Profile machining necessary.

Assembly



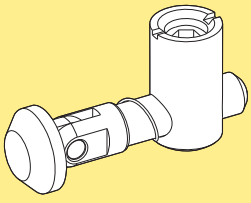
Part list	
A	External joint
B	Internal joint
C	Plug TCBE EC14 G or TCBE EC14 B

Central joint, Articulated, 30° to 90°, external



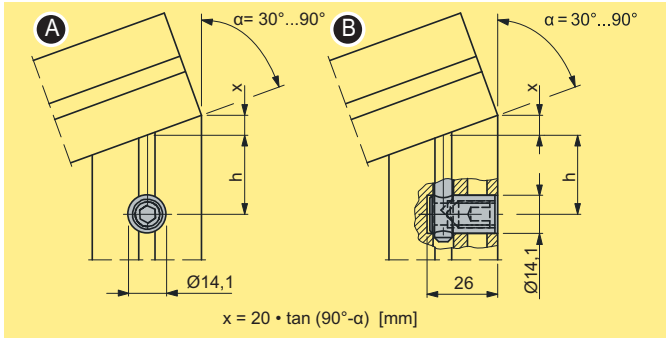
Central joint, Articulated, 30° to 90°, external **TCEC 14x30-90 E**

Central joint, Articulated, 30° to 90°, internal

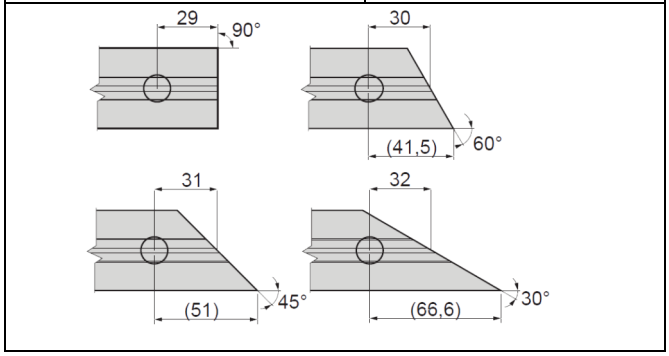


Central joint, Articulated, 30° to 90°, internal **TCEC 14x30-90 I**

Machining



Angle	Measurement (h)
71°-90°	29 mm
56°-70°	30 mm
41°-55°	31 mm
30°-40°	32 mm



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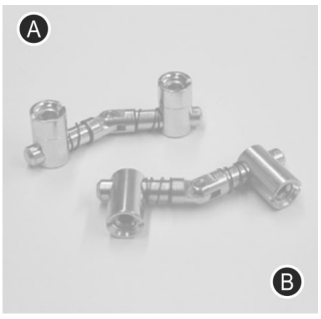
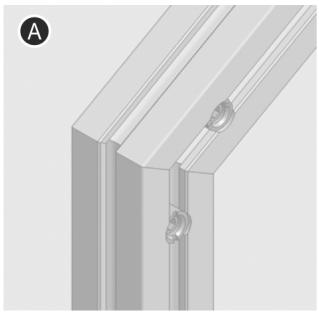
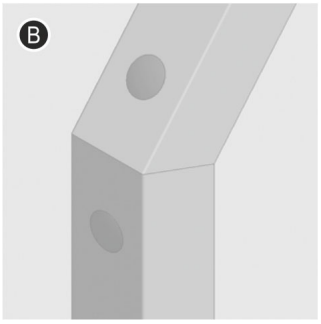
Central joint TC40, 0°- 90°, mitred

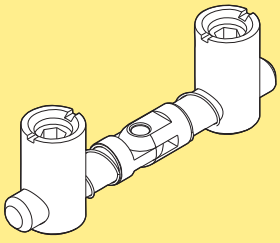






- For mitred joints at angles of 0°-90°.
- Plug for closed profiles.
- Profile machining necessary.

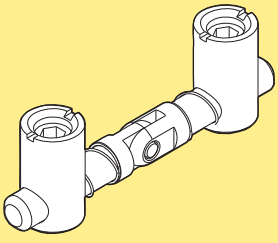
Central joint, Mitred, 0° - 90°, external



Central joint, Mitred, 0°- 90°, external

TCEC 14x0-90 E

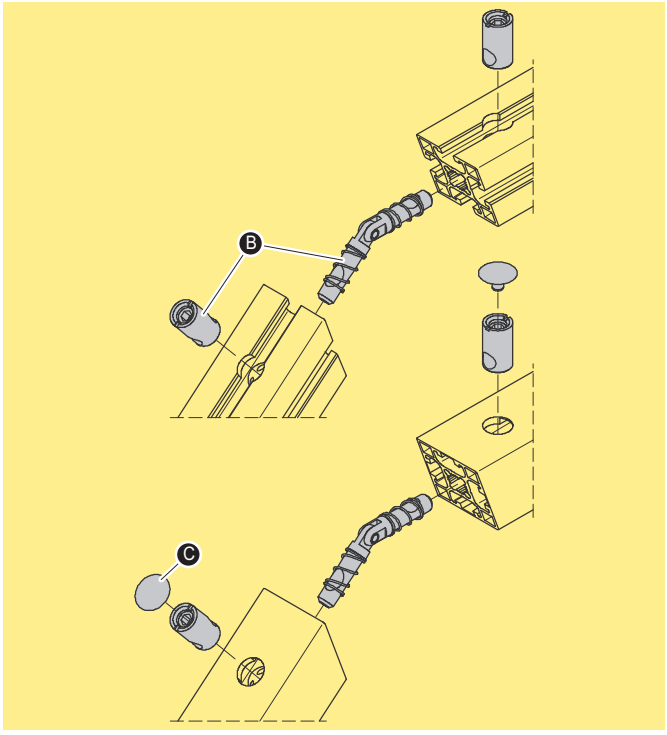
Central joint, Mitred, 0° - 90°, internal



Central joint, Mitred, 0°- 90°, internal

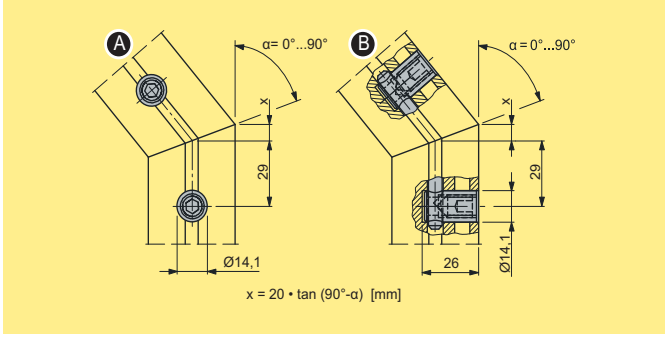
TCEC 14x0-90 I

Assembly

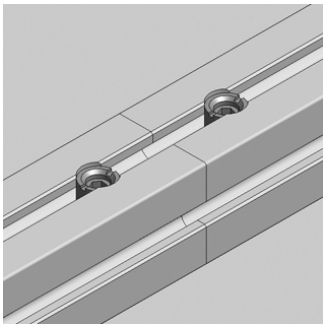


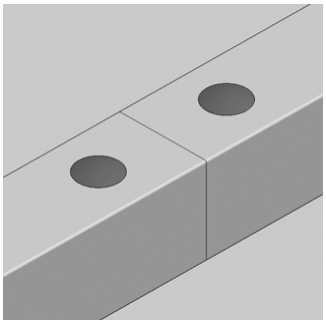
Part list	
A	External joint
B	Internal joint
C	Plug TCBE EC14 G or TCBE EC14 B

Machining



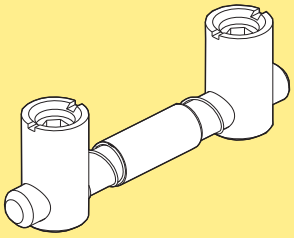
Central joint, TC40, 180° butt-type





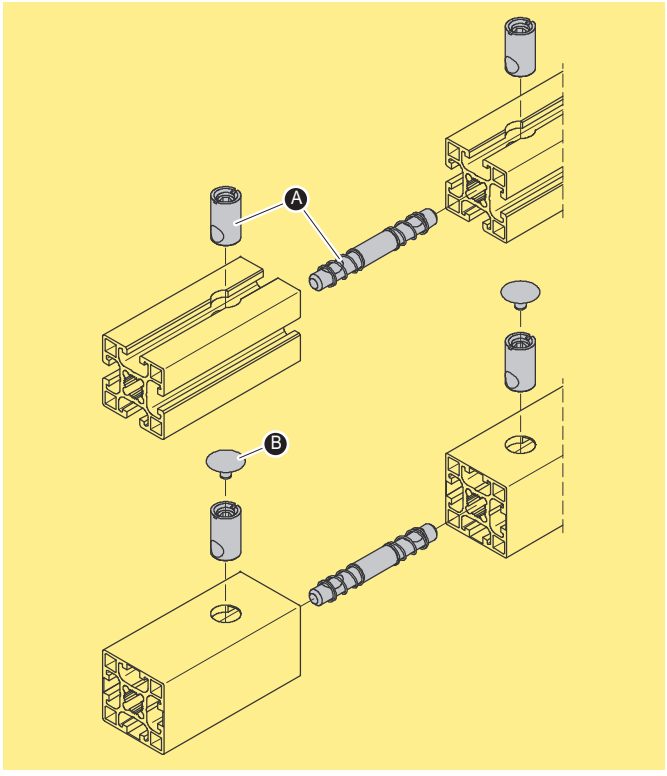
- For butt joints.
- Plug for closed profiles.
- Profile machining necessary.

Central joint, Straight connection



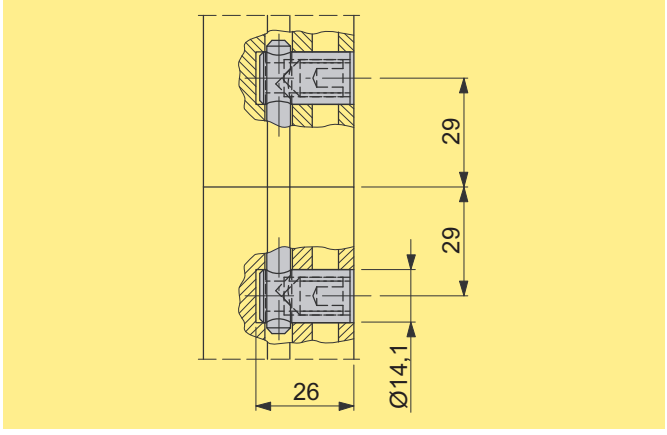
Central joint, Straight connection **TCEC 14x180**

Assembly



Part list	
A	Central joint, 180°, butt-type
B	Plug TCBE EC14 G or TCBE EC14 B

Machining



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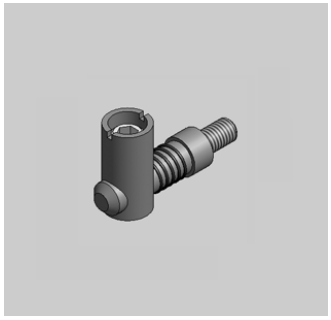
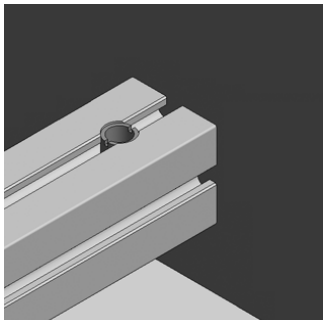
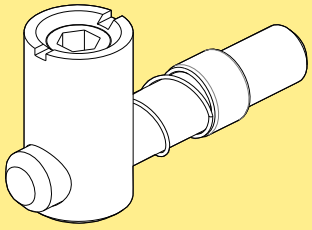
Central joint, TC40, 90° rigid, with M8 thread





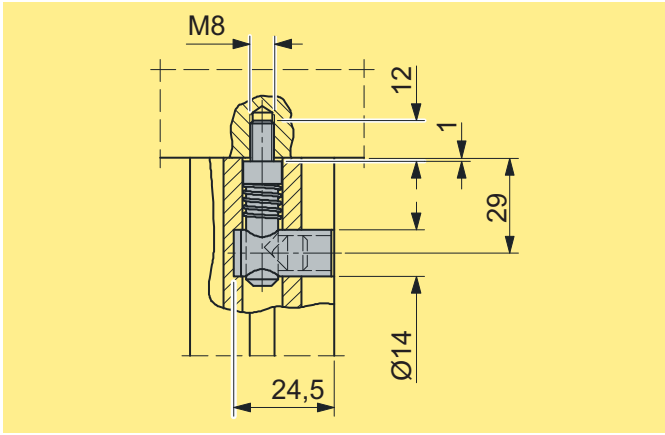
- Joint with M8 thread for mounting profiles to front of components with M8 threaded hole.
- Profile machining necessary.

Central joint, M8

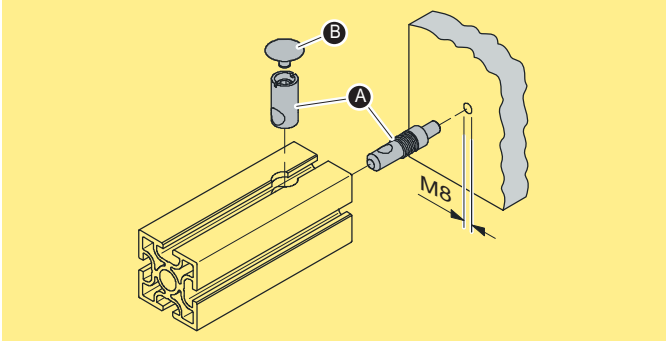


Central joint, M8 **TCEC 14 M8**

Machining

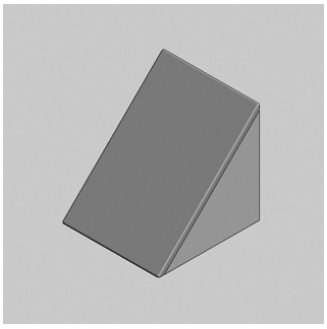


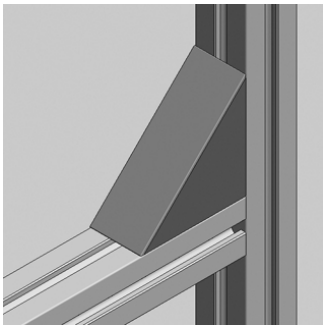
Assembly



Part list	
A	Central joint, M8
B	Plug TCBE EC14 G or TCBE EC14 B

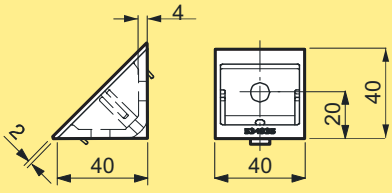
Corner joint TC40





- Corner joint for:
  - connecting profiles to profiles
  - additionally reinforcing profile joints
  - installing different machine components.
- No machining work necessary to open profiles.
- Anti-rotation element (4) can be detached if necessary.
- Available either as:
  - All-inclusive item: Corner joint (colour coated) including fixing material
  - Single item: Corner joint (colour coated). Please order end cap and fixing material separately

Angle bracket, 40x40, grey or black



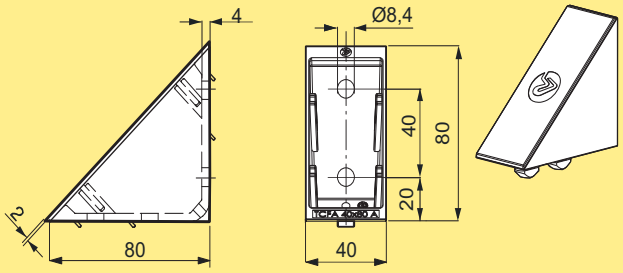
Angle bracket, 40x40, grey **TCFA 40x40 AAG**

Corner joint 40x40, end cap grey TCBE 40x55 G and necessary mounting hardware included.

Angle bracket, 40x40, black **TCFA 40x40 AAB**

Corner joint 40x40,end cap black TCBE 40x55 B and necessary mounting hardware included.

Angle bracket, 40x80, grey or black



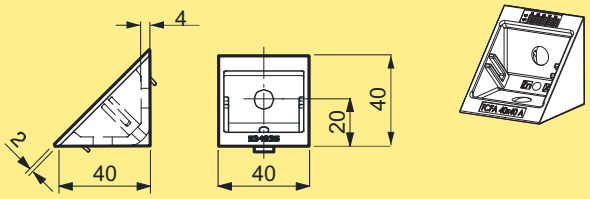
Angle bracket, 40x80, grey **TCFA 40x80 AAG**

Corner joint 40x80, end cap grey TCBE 40x112 G and necessary mounting hardware included.

Angle bracket, 40x80, black **TCFA 40x80 AAB**

Corner joint 40x80, end cap black TCBE 40x112 B and necessary mounting hardware included.

Angle bracket, 40x40, die-cast



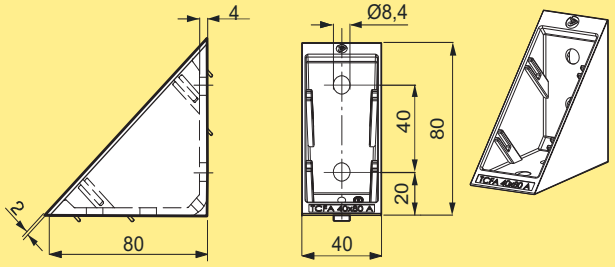
Angle bracket, 40x40, die-cast* **TCFA 40x40 AB***

End cap, Corner joint 40x40, grey **TCBE 40x55 G***

End cap, Corner joint 40x40, black **TCBE 40x55 B***

* *Must be ordered in pack size 10*

Angle bracket, 40x80, die-cast



Angle bracket, 40x80, die-cast **TCFA 40x80 AB***

End cap, Corner joint 40x80, grey **TCBE 40x112 G***

End cap, Corner joint 40x80, black **TCBE 40x112 B***

* *Must be ordered in pack size 10*

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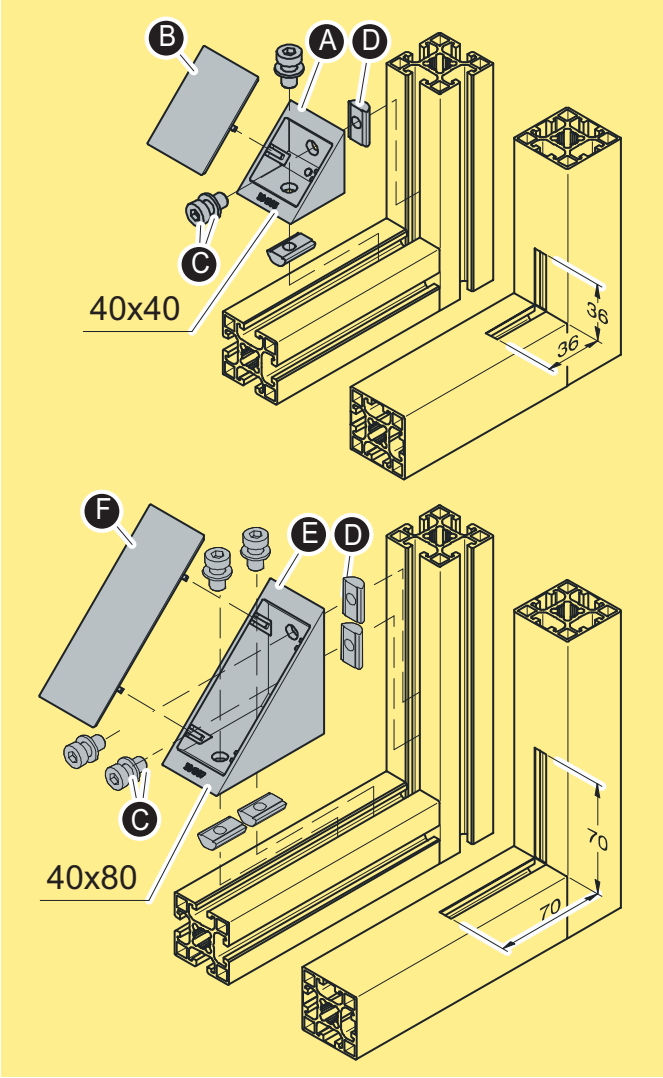
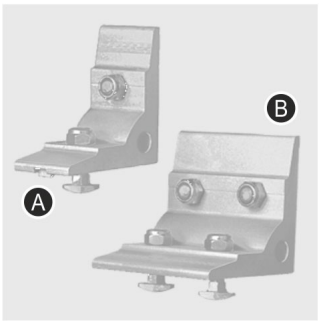
Assembly

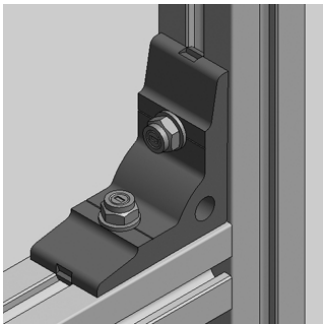


Part list	
A	40x40 corner joint
B	End cap for 40x40 corner joint
C	M8x16 socket head cap screw/ 8.4 washer
D	Steel M8 T-slot nut
E	40x80 corner joint
F	End cap for 40x80 corner joint

Designation		Size	Colour of end cap	Part number	Qty	
Corner joint, complete, Silver	A-D	40x40	Silver grey (similar to RAL 7001)	TCFA 40x40 AAG	1	Die-cast zinc
			Black (similar to RAL 9005	TCFA 40x40 AAB	1	
	E-F	40x80	Silver grey (similar to RAL 7001)	TCFA 40x80 AAG	1	
			Black (similar to RAL 9005	TCFA 40x80 AAB	1	
Corner joint, silver	A	40x40	--	TCFA 40x40 AB	10	Die-cast zinc
	E	40x80	--	TCFA 40x80 AB	10	
End cap	B	40x40	Silver grey (similar to RAL 7001)	TCBE 40x55 G	10	PA6-GB30
			Black (similar to RAL 9005	TCBE 40x55 B	10	
	F	40x80	Silver grey (similar to RAL 7001)	TCBE 40x112 G	10	
			Black (similar to RAL 9005	TCBE 40x112 B	10	

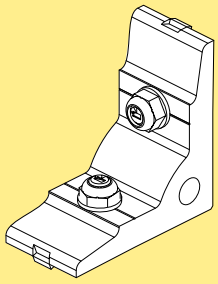
Angle bracket TC40





- Angle bracket for:
  - connecting profiles to profiles
  - additionally reinforcing profile joints
  - installing different machine components.
- No profile machining necessary.
- Secure fit- position marking shows position of T-head.
- Available as complete pack.

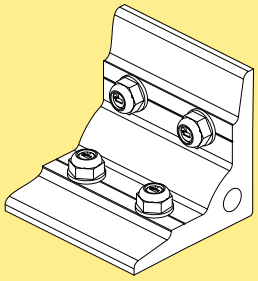
Angle bracket, 40x70



Angle bracket, 40x70 **TCFA 40x70 BA***

** Must be ordered in pack size 10*

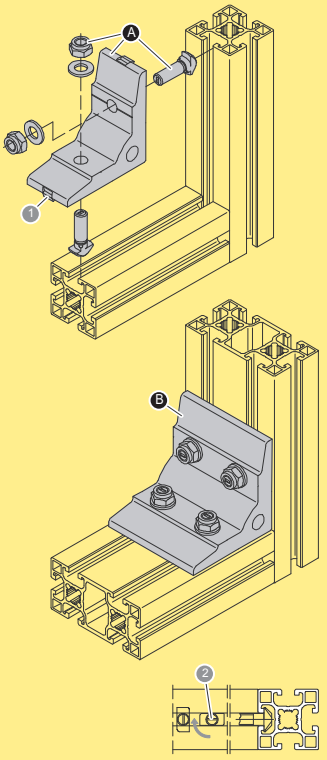
Angle bracket, 80x70



Angle bracket, 80x70 **TCFA 80x70 BA***

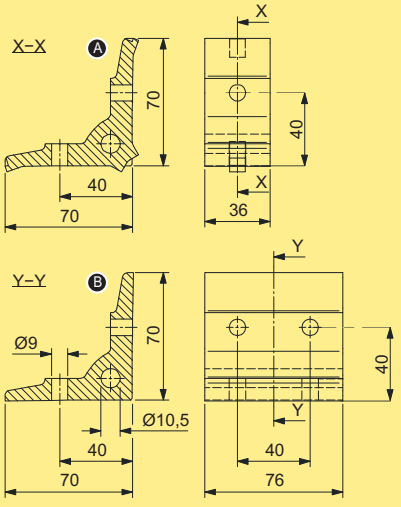
** Must be ordered in pack size 10*

Assembly



Part list	
A	40x70 angle joint/ M8x25 T-head bolt/ M8 nut (self-locking/ 8.4 washer
B	80x70 angle joint/ M8x25 T-head bolt/ M8 nut (self-locking/ 8.4 washer
1	Anti-rotation element
2	Position marking

Dimensions



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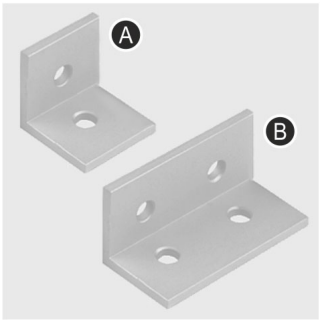
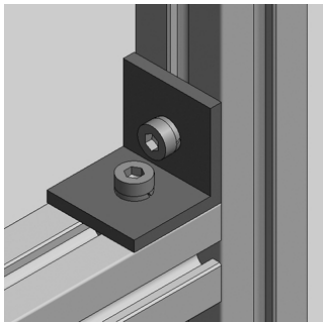
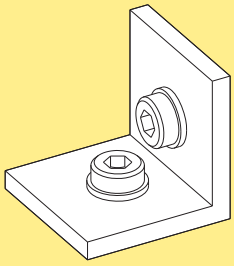
Angle bracket TC40





- Particularly suitable for retrofitting profiles.
- Fixing material included.

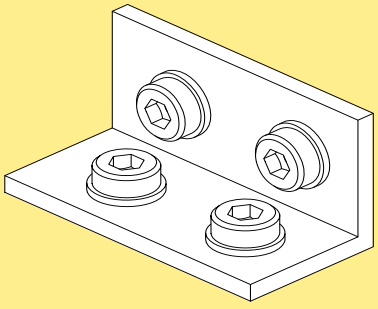
Angle bracket, 40x40



Angle bracket, 40x40 **TCFA 40x40 CA***

** Must be ordered in pack size 10*

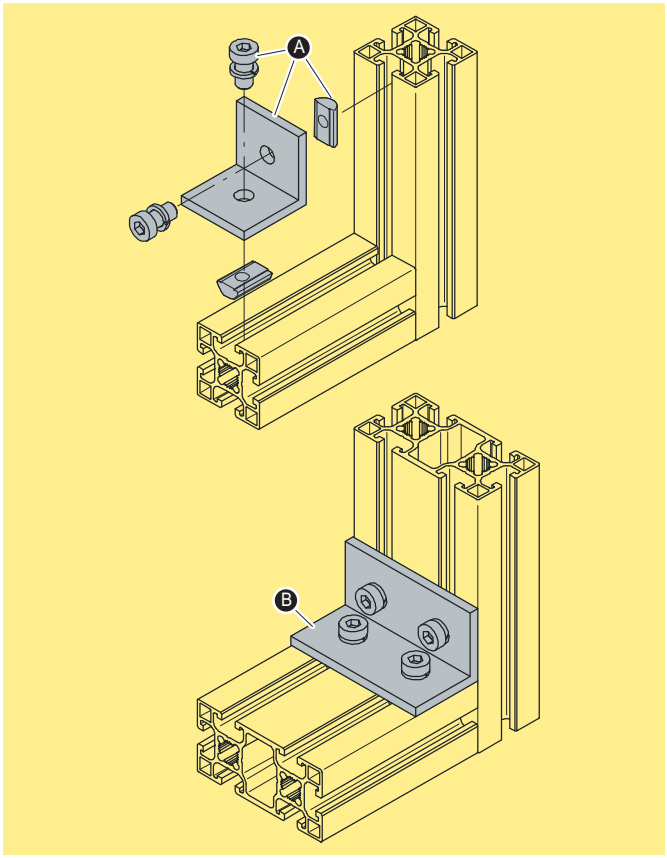
Angle bracket, 40x80



Angle bracket, 40x80 **TCFA 40x80 CA***

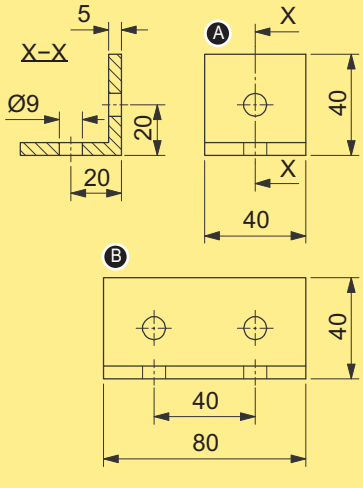
** Must be ordered in pack size 10*

Assembly

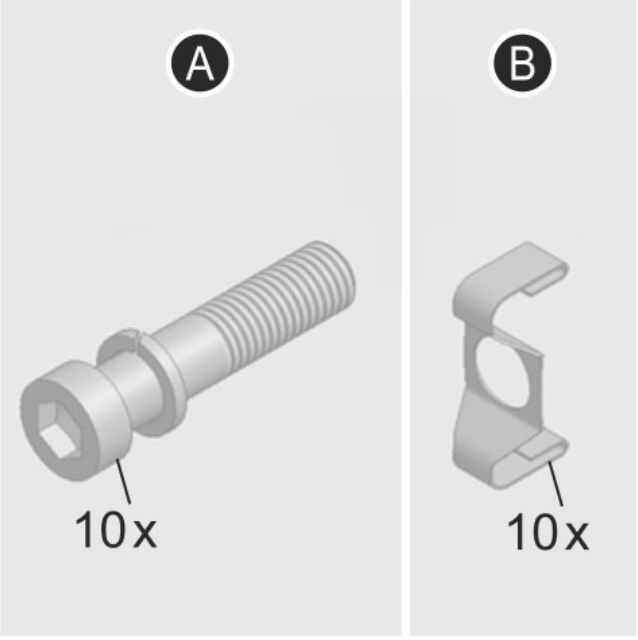


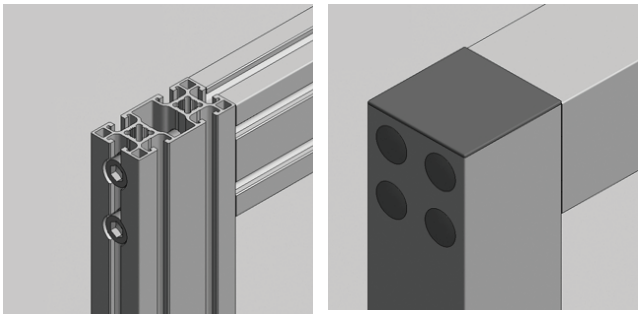
Part list	
A	40x40mm mounting bracket/ M8x16 socket head cap screw/ 8.4 washer/ aluminium M8 T-slot nut
B	40x80mm mounting bracket/ M8x16 socket head cap screw/ 8.4 washer/ aluminium M8 T-slot nut

Dimensions



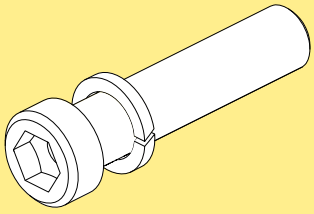
M12 Screwed joint, TC40





- For right-angled profile joints.
- High flexural strength.
- Plug for closed profiles.
- Profile machining necessary.
- Rotation prevented by use of spring blade where only one screw is fitted.
- TC40 U profile range M12 thread must be tapped in the profile being connected.

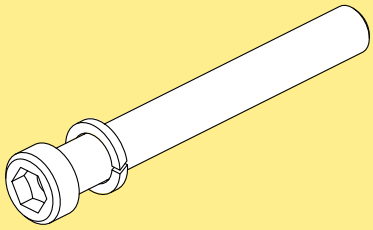
Screwed joint, M12, for 40 mm profile



Screwed joint, M12, 40 mm **TCSJ 12x40***

** Must be ordered in pack size 10*

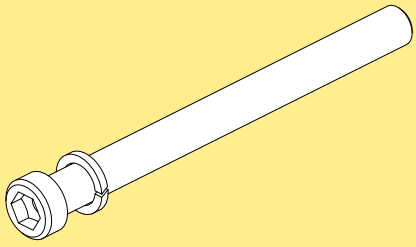
Screwed joint 100 mm, M12, for 80 mm profile



Screwed joint, M12, 80 mm **TCSJ 12x80***

** Must be ordered in pack size 10*

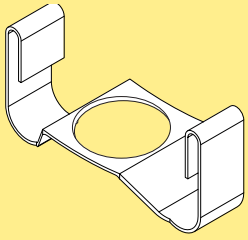
Screwed joint 140 mm, M12, for 120 mm profile



Screwed joint, M12, 120 mm **TCSJ 12x120***

** Must be ordered in pack size 10*

Spring blade, Anti rotation device M12

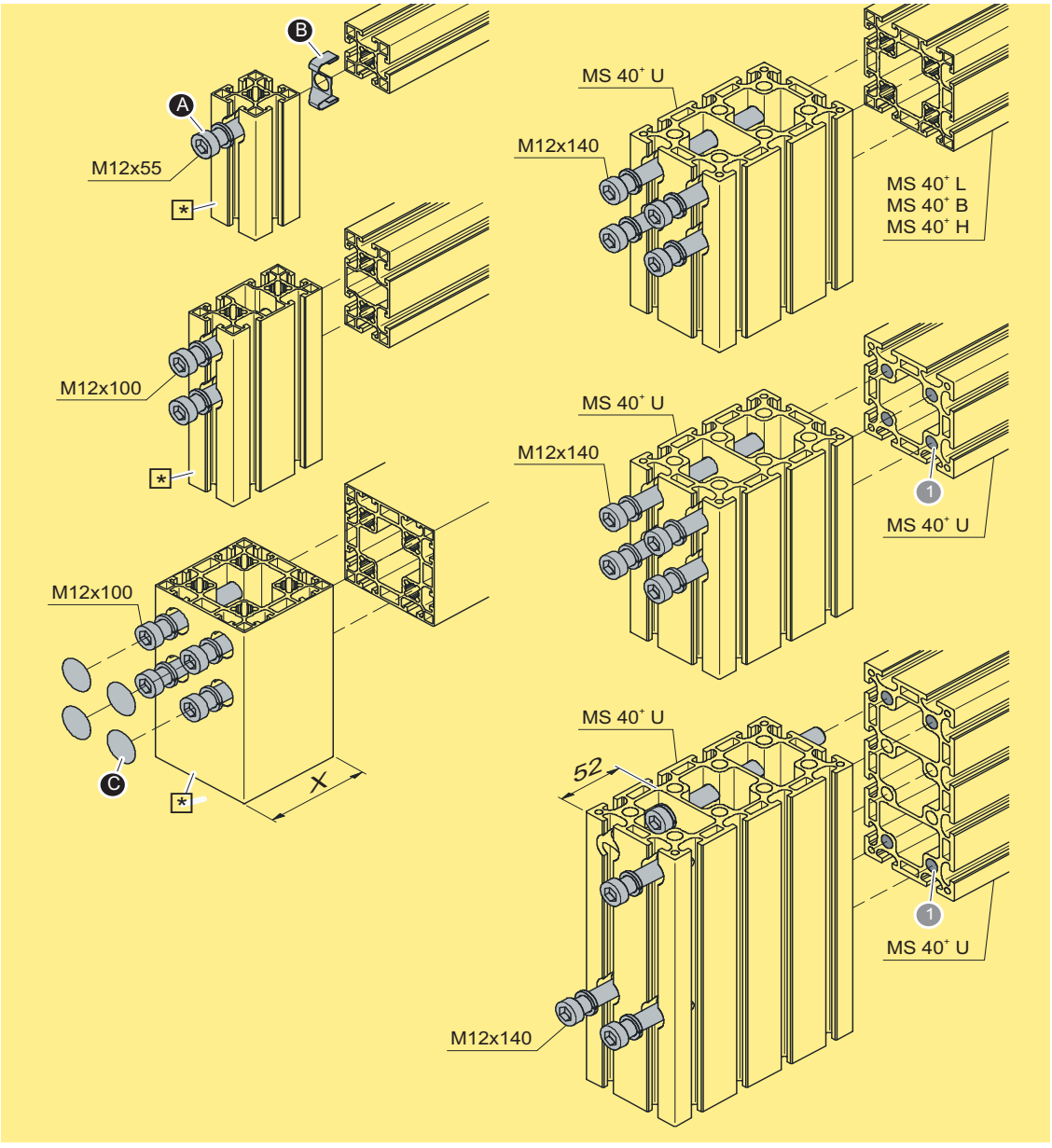


Spring blade, Anti rotation device M12 **TCSB 12***

** Must be ordered in pack size 10*

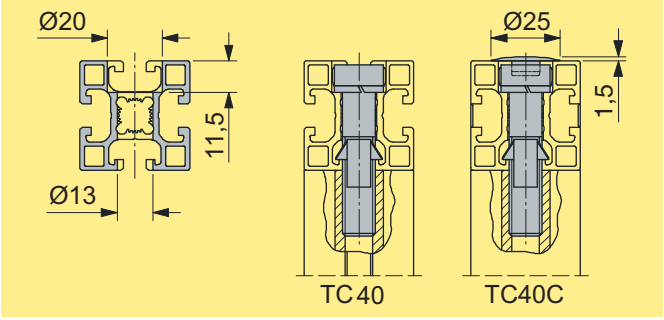
 © FlexLink 2021

Assembly



Part list	
A	M12 socket head cap screw/ 12 circlip
B	M12 spring blade
C	Plug TCBE EC14 G or TCBE EC14 B
1	TC40 U only: M12 thread must be tapped.

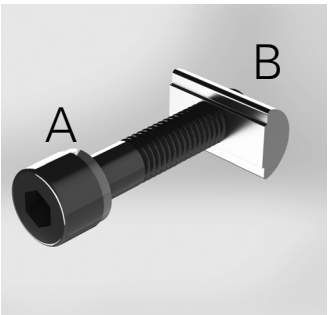
Machining

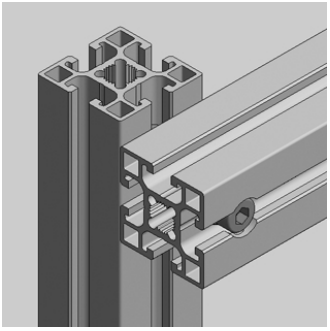


Tightening torques

*	Nm
TC40 L	17
TC40 B	17
TC40 H	20
TC40 U	20

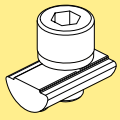
M8 Screwed joint TC40, with T-slot nut





- Universal use:
  - for mounting accessories and panel elements to profiles
  - for profile joints at any angled position.
- Unilateral flexible positioning.
- Medium flexural strength.
- Plug for closed profiles.
- Profile machining necessary.

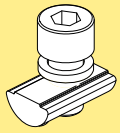
Screwed joint, M8x12



Screwed joint, M8x12 **TCSJ 8 A***

** Must be ordered in pack size 10*

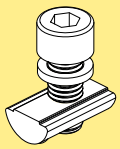
Screwed joint, M8x10



Screwed joint, M8x10 **TCSJ 8 B***

** Must be ordered in pack size 10*

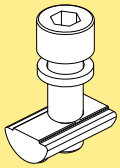
Screwed joint, M8x20



Screwed joint, M8x20 **TCSJ 8 C***

** Must be ordered in pack size 10*

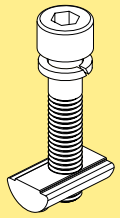
Screwed joint, M8x25



Screwed joint, M8x25 **TCSJ 8 D***

** Must be ordered in pack size 10*

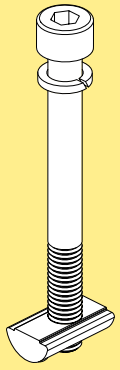
Screwed joint, M8x40



Screwed joint, M8x40 **TCSJ 8 E***

** Must be ordered in pack size 10*

Screwed joint, M8x80



Screwed joint, M8x80 **TCSJ 8 F***

** Must be ordered in pack size 10*

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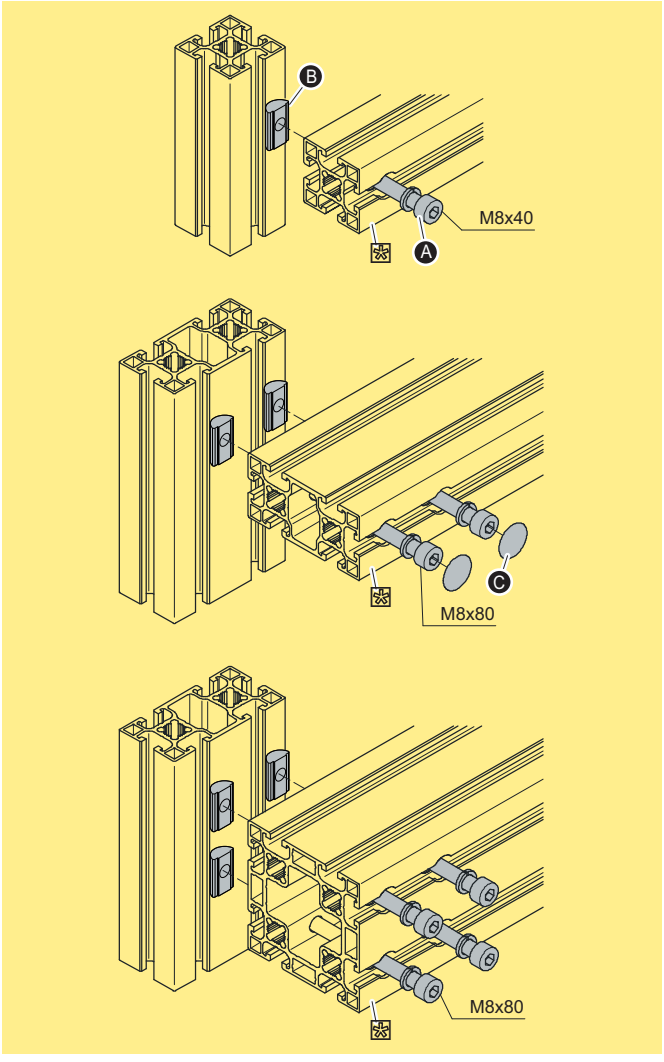
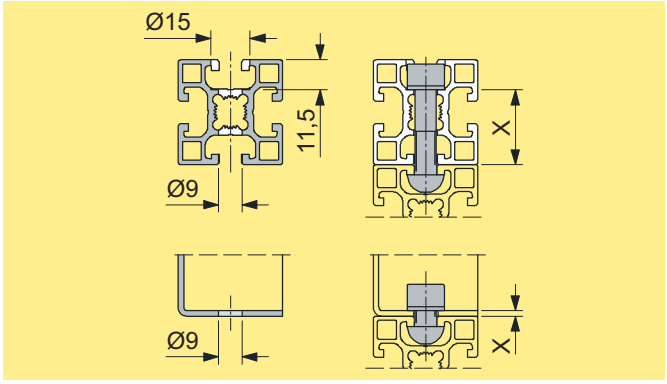
Designation		Size	Colour	Part number	Qty		Tool
M8 screwed joint	A-B	M8x12, X=0-3 mm		TCSJ 8 A	10	Steel, galvanised	
		M8x16, X=4-7 mm		TCSJ 8 B	10		
		M8x20, X=8-11 mm		TCSJ 8 C	10		
		M8x25, X=13-16 mm		TCSJ 8 D	10		1) TCAD M8M12CJ
		M8x40, X=28-31 mm		TCSJ 8 E	10		2) TTCS 9x15
		M8x80, X=68-71 mm		TCSJ 8 F	10		
Plug	C		Silver grey (similar to RAL 7001)	TCBE M8 G	100		
			Black (similar to RAL 9005)	TCBE M8 B	100		
(1) Drill fixture							
(2) Counter bore, 9.0/15.0 mm diameter							

Assembly



Part list	
A	M8 socket head cap screw/ 8 circlip
B	T-slot nut M8, steel
C	Plug

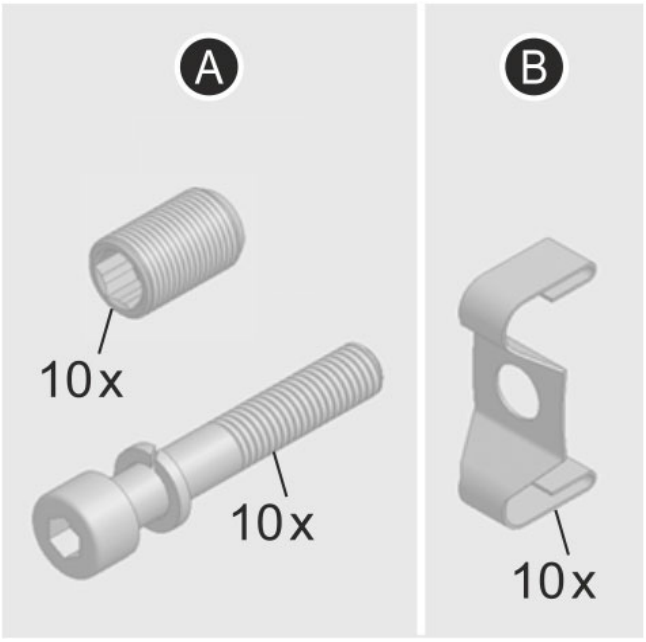
Machining

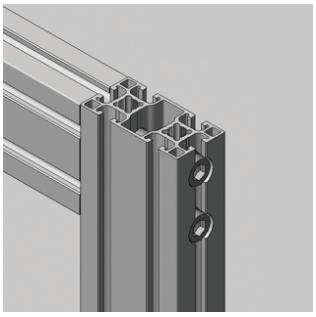


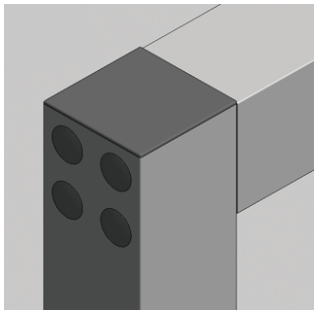
Tightening torques

*	Nm
TC40 L	17
TC40 B	17
TC40 H	20
TC40 U	20

M8 Screwed joint, TC40

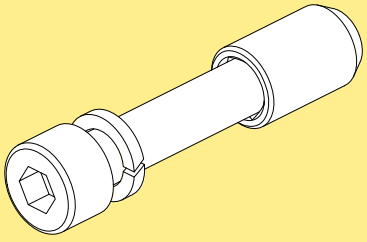






- For right-angled profile joints.
- High flexural strength.
- Plug for closed profiles.
- Profile machining necessary.
- Rotation prevented by use of spring blade where only one screw is fitted.

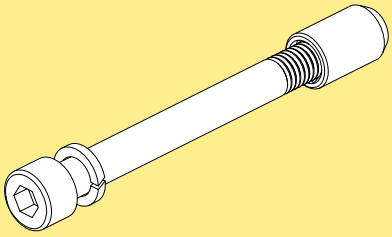
Screwed joint, M8, 40 mm



Screwed joint, M8, 40 mm **TCSJ 8x40***

** Must be ordered in pack size 10*

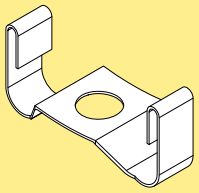
Screwed joint, M8, 80 mm



Screwed joint, M8, 80 mm **TCSJ 8x80***

** Must be ordered in pack size 10*

Spring blade, Anti rotation device M8



Spring blade, Anti rotation device M8 **TCSB 8***

** Must be ordered in pack size 10*

Designation		Size	Thread	Colour	Part number	Qty	Material	Tool
M8 screwed joint	A	40	M8x50		TCSJ 8x40	10	Steel, galvanised	1) TCAD M8M12CJ
		80	M8x90		TCSJ 8x80	10		2) TTCS 9x15
M8 spring blade	B				TCSB 8	10	Spring steel	
Plug	C			Silver grey (similar to RAL 7001)	TCBE M8 G	100		
				Black (similar to RAL 9005)	TCBE M8 B	100		
(1) Drill fixture								
(2) Counter bore, 9.0/15.0mm diameter								

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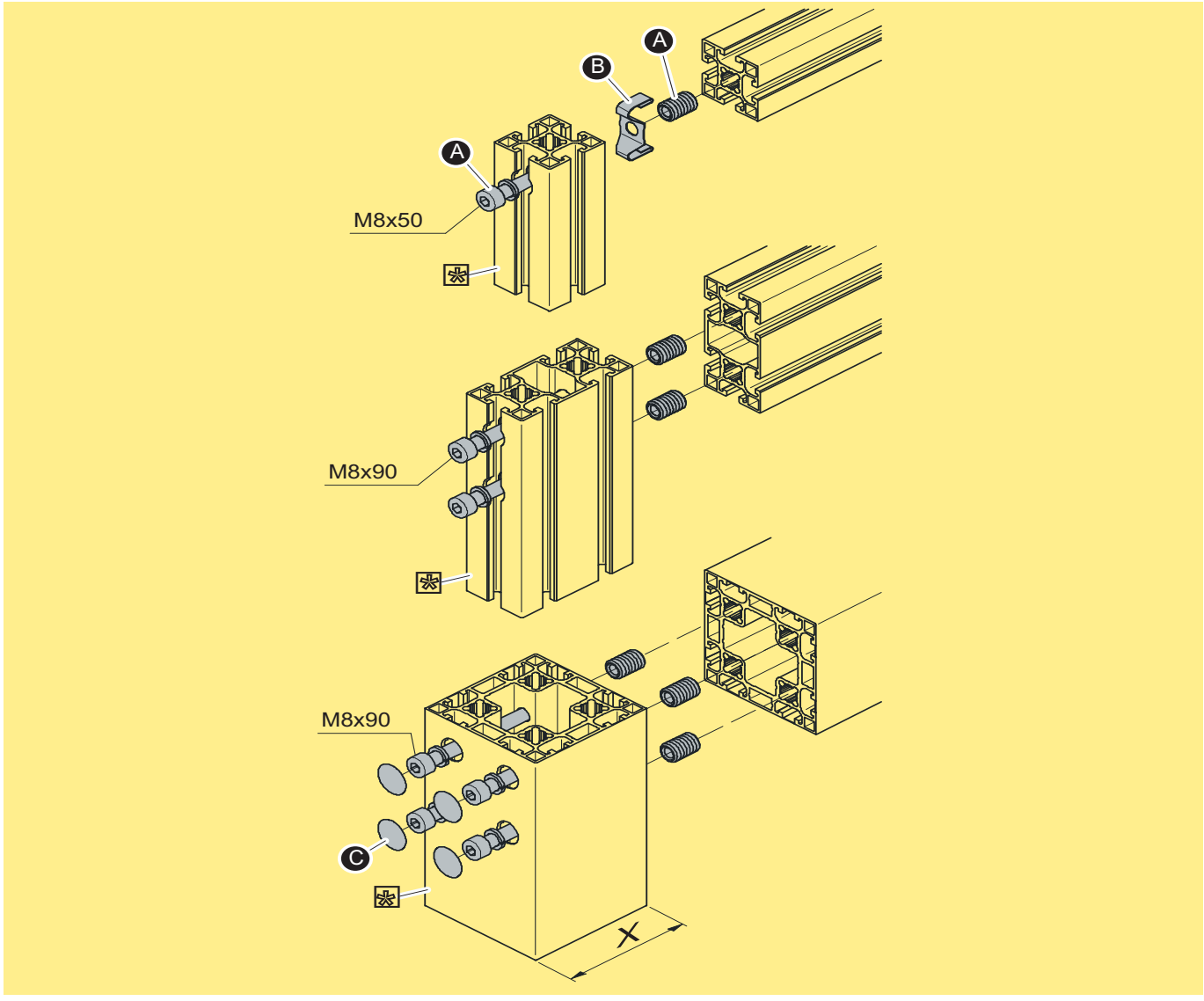
Assembly

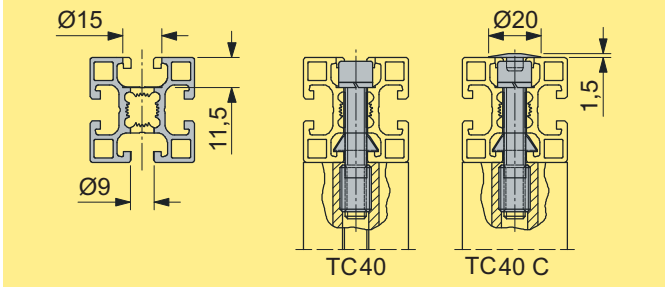


Part list	
A	M8 socket head cap screw/ 8 circlip/ M12/M8 reducing sleeve
B	M8 spring blade
C	Plug

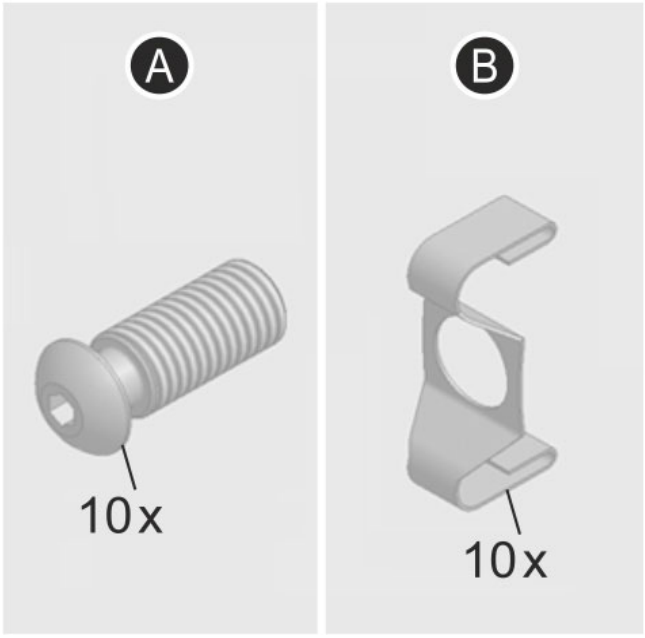
Tightening torques

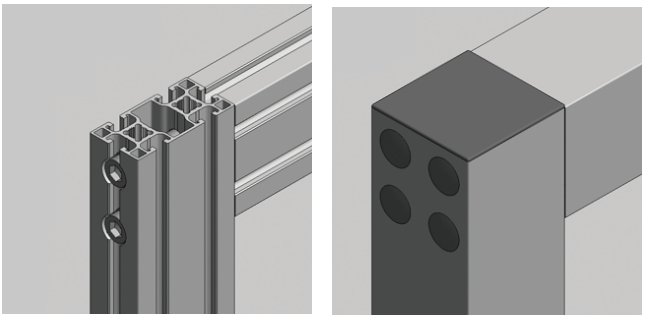
*	Nm
TC40 L	17
TC40 B	17
TC40 H	20
TC40 U	20

Machining

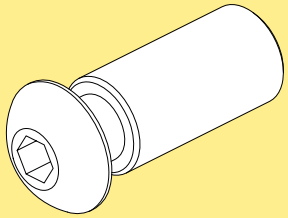


M12 clamped joint, TC40





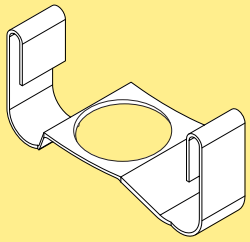
Screw, M12 Clamped joint



Screw, M12 Clamped joint **TCCJ 12x25***

** Must be ordered in pack size 10*

Spring blade, Anti rotation device M12



Spring blade, Anti rotation device M12 **TCSB 12***

** Must be ordered in pack size 10*

- For right-angled profile joints.
- The opposite profile slot can still be used.
- Spring blades act as anti-rotation elements and increase contact area of screw head.
- Plug for closed profiles.
- Profile machining necessary.

Designation		Size	Thread	Colour	Part number	Qty	Material	Tool
M12 clamped joint	A	X=40	M12x25		TCCJ 12x25	10	Steel, galvanised	1) TCAD M8M12CJ
		X=80				10		2) TTCS 9x15
M12 spring blade	B				TCSB 12	10	Spring steel	
Plug	C			Silver grey (similar to RAL 7001)	TCBE M12CJ G	100		
				Black (similar to RAL 9005)	TCBE M12CJ B	100		
(1) Drill fixture								
(2) Counter bore, 9.0/15.0mm diameter								

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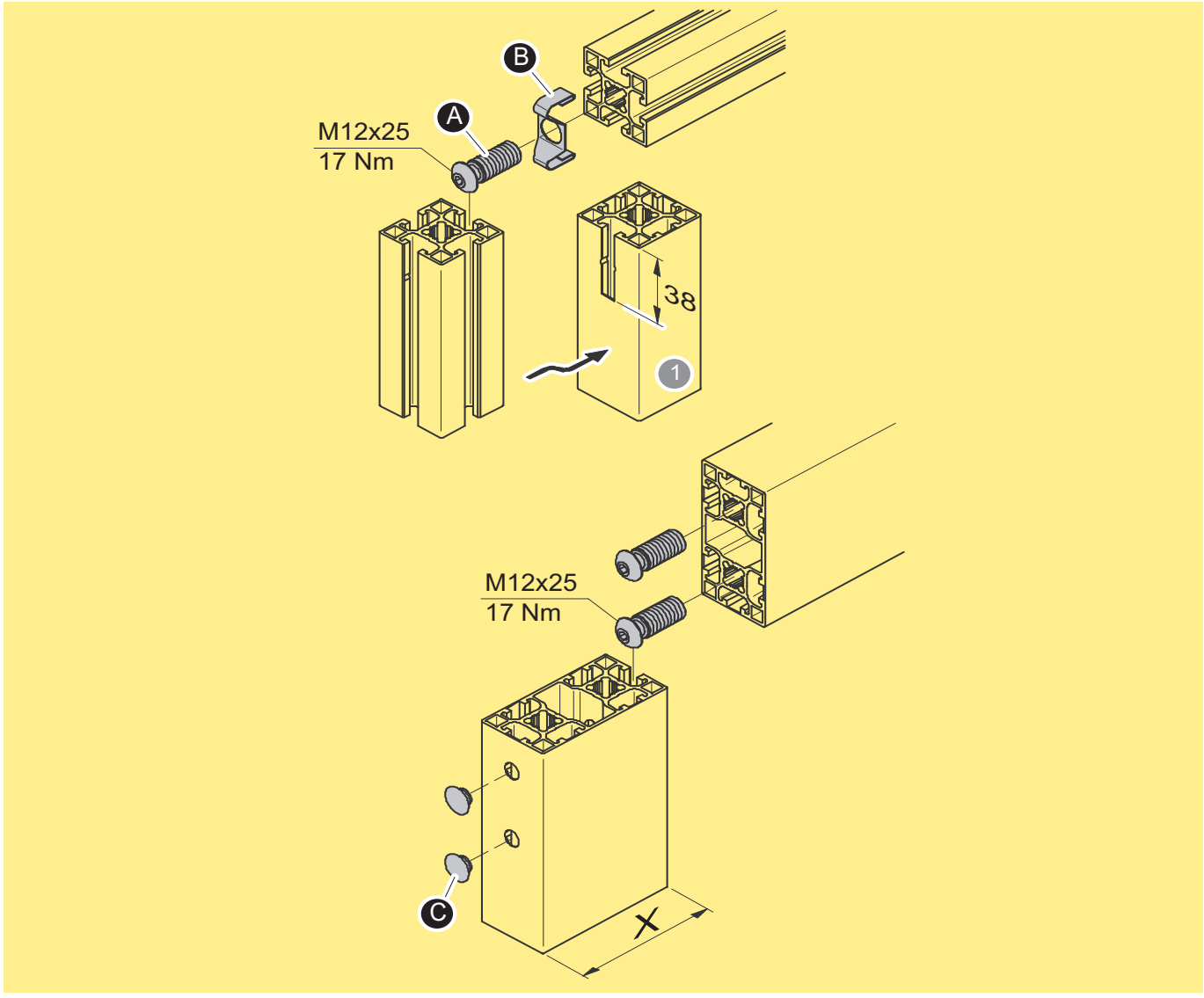
Assembly

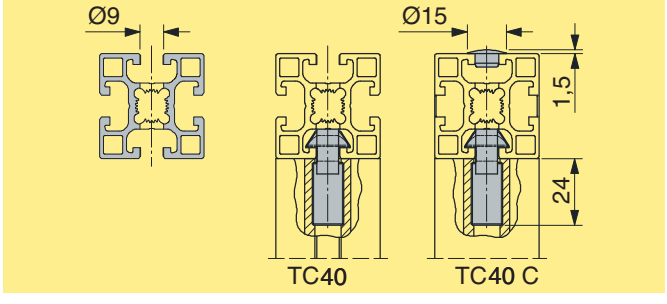


Part list	
A	M12x25 clamping screw
B	Spring blade, M12
C	Plug
1	Rear view

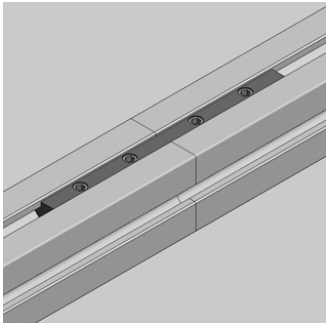
Tightening torques

*	Nm
TC40 L	17
TC40 B	17
TC40 H	20
TC40 U	20

Machining

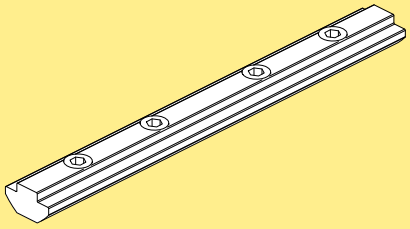


T-slot nut TC40



- For butt joints.
- Fast installation- T-slot nut is pushed into the profile slot and fixed in place with the premounted grub screws.
- No machining work necessary to open profiles.
- Locked against rotation by using two T-slot nuts.

T-slot nut, 4xM8

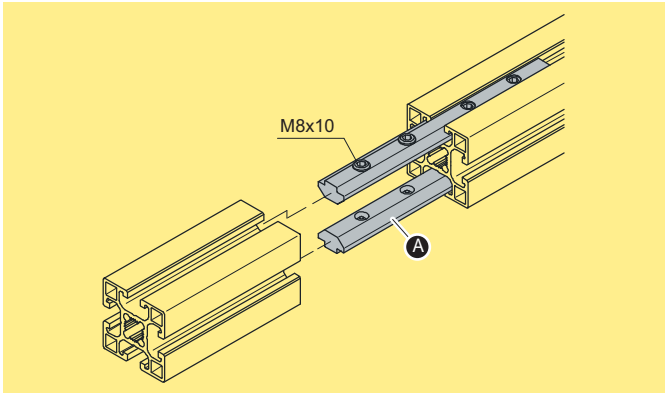


T-slot nut, 4xM8 **TCAN 8x4***

** Must be ordered in pack size 10*

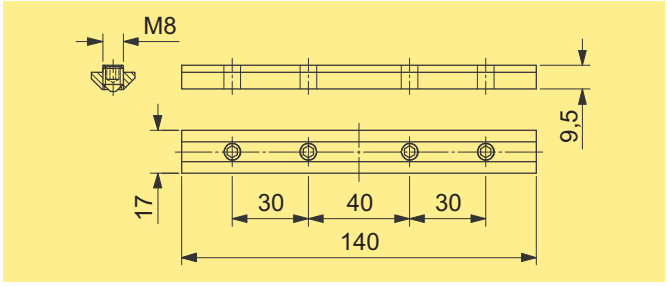
Steel, galvanised

Assembly



Part list	
A	T-slot nut including M8x10 grub screws

Dimensions



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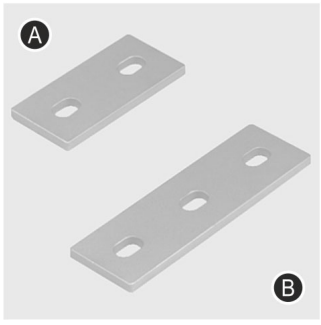
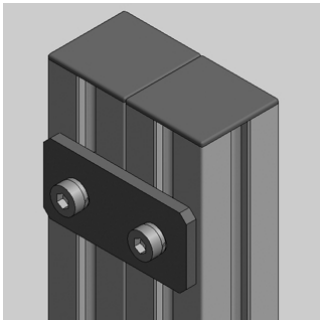
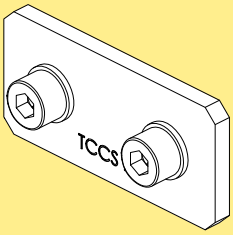
Connecting strip TC40





- For joining or butt-mounting system profiles.
- Fixing material included.

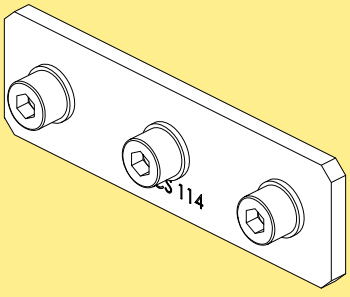
Connecting strip, 40x80



Connecting strip, 40x80 **TCCS 74**

Steel, galvanised

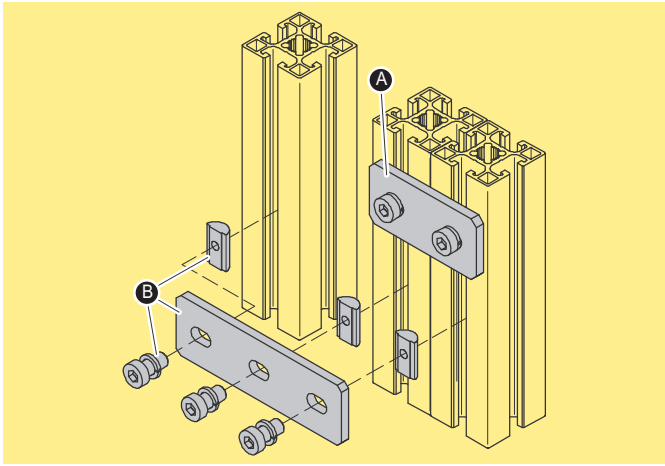
Connecting strip, 40x120



Connecting strip, 40x120 **TCCS 114**

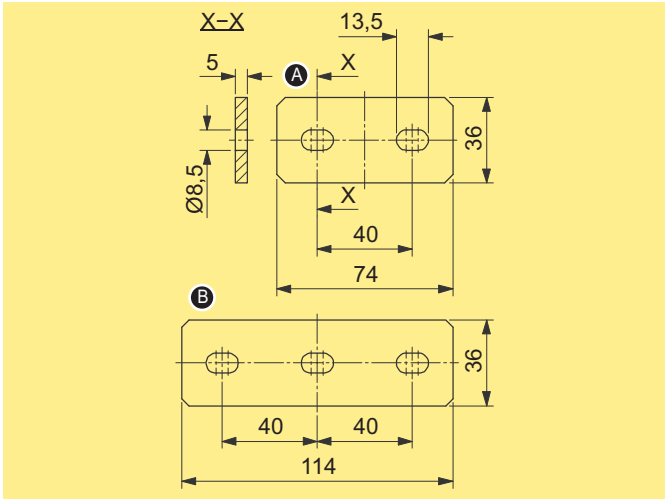
Steel, galvanised

Assembly

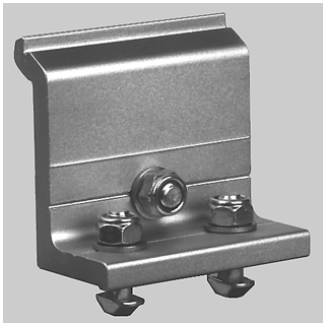


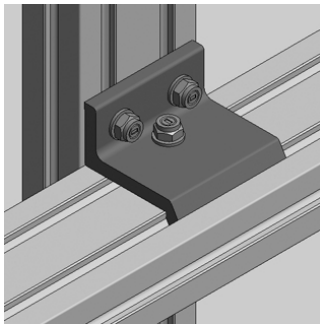
Part list	
A	40x80 connecting tab/ M8x16 socket head cap screw/ 8.4 washer/ steel M8 T-slot nut
B	40x120 connecting tab/ M8x16 socket head cap screw/ 8.4 washer/ steel M8 T-slot nut

Dimensions



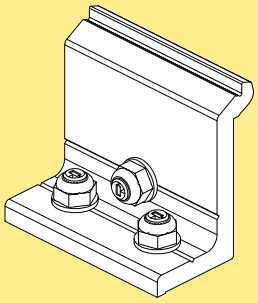
Connecting joint TC40





- For joining 80mm system profiles at right angles.
- Mounts by hooking into the profile slot.
- A locked joint is produced by using two joints.
- Secure fit- position marking shows position of T-head.
- Fixing material included.

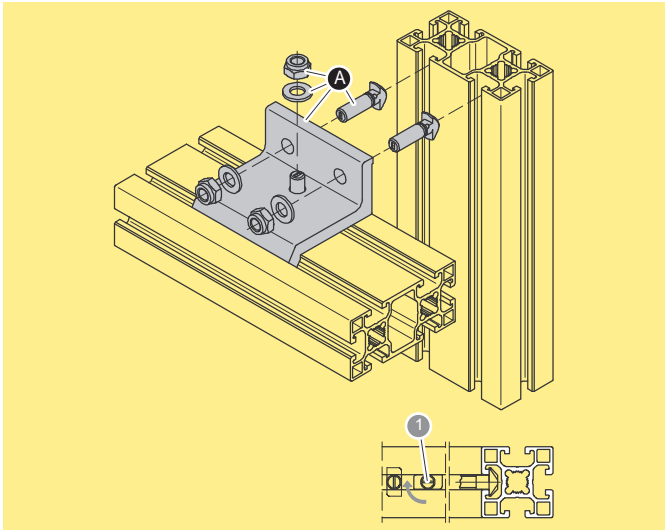
Connecting bracket



Connecting bracket **TCFA 80x37**

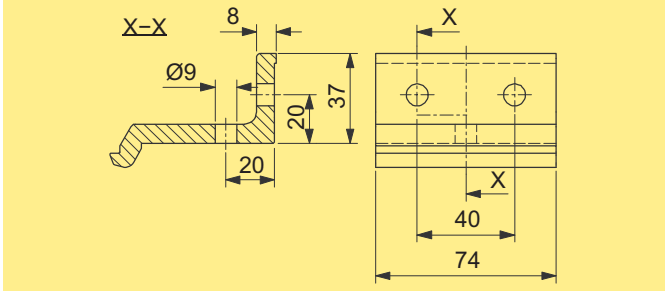
Aluminum, anodised finish

Assembly



Part list	
A	Connecting joint/ M8x25 T-head bolt/ M8 nut (self-locking)/ 8.4 washer
1	Position marking

Dimensions



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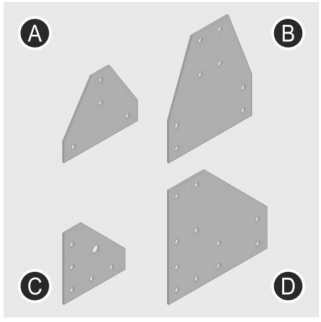
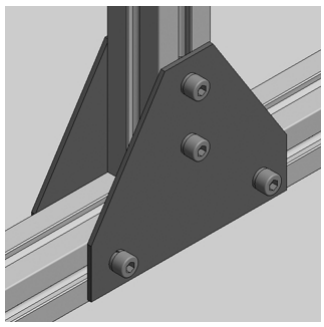
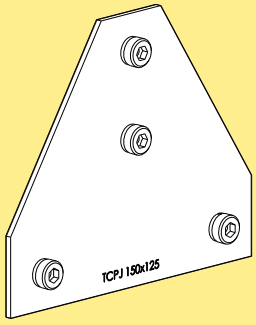
Connector plate TC40





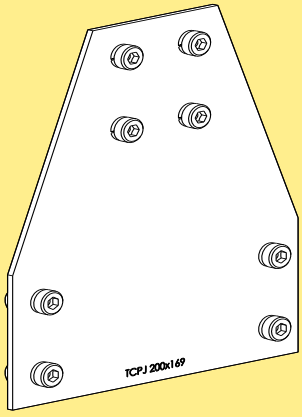
- For bracing highly stressed joints.
- T and L joints for 40 and 80mm system profiles.
- Fixing material included.

Connector plate, 150x125



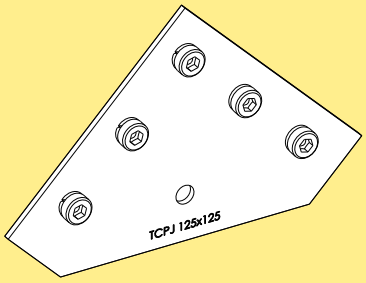
Connector plate, 150x125 **TCPJ 150x125**

Connector plate, 200x169



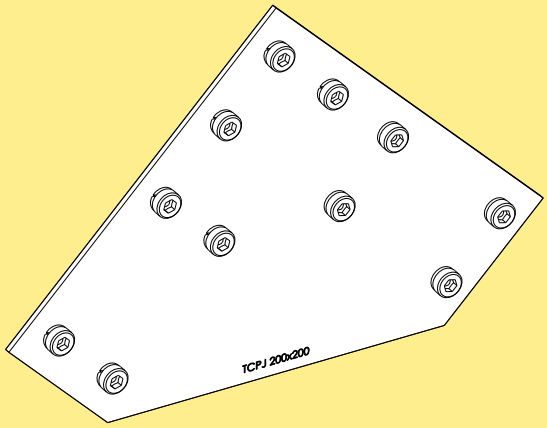
Connector plate, 200x169 **TCPJ 200x169**

Connector plate, 125x125



Connector plate, 125x125 **TCPJ 125x125**

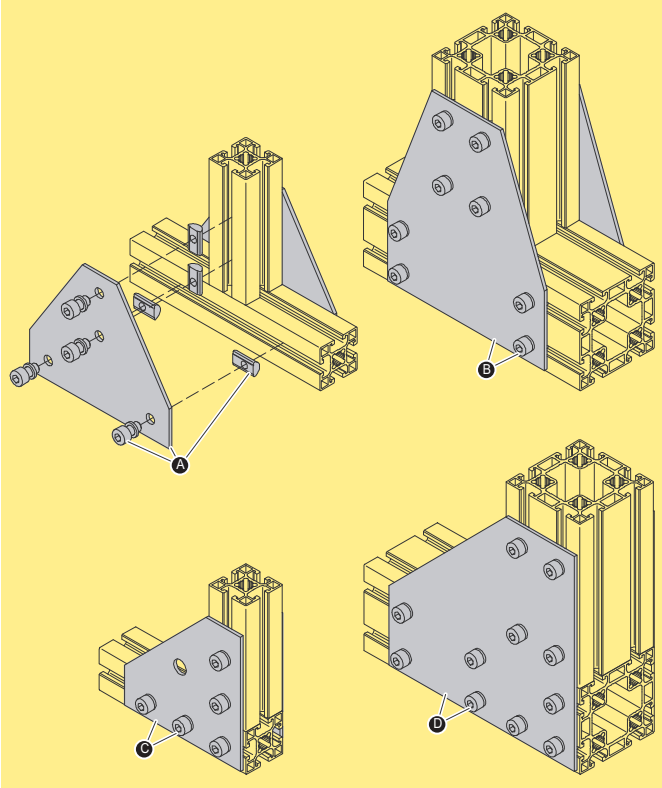
Connector plate, 200x200



Connector plate, 200x200 **TCPJ 200x200**

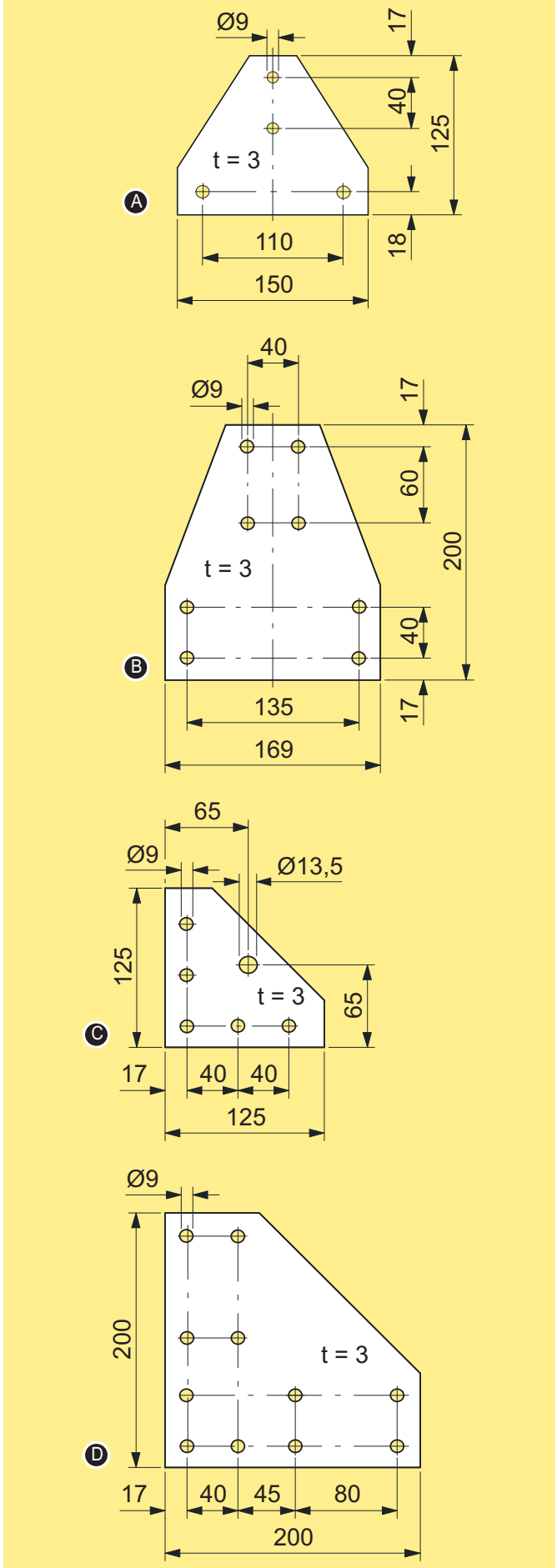
		mm	Part number	Material
Plate for T and L-joint including fixing material	A	150x125x3	TCPJ 150x125	Steel galvanised
	B	200x169x3	TCPJ 200x169	
	C	125x125x3	TCPJ 125x125	
	D	200x200x3	TCPJ 200x200	

Assembly



Part list	
A	Plate for T-joint, 40mm/4 pcs of M8x14 socket head cap screw/ washer/ Steel M8 T-slot nut
B	Plate for T-joint, 80mm/ 8 pcs of M8x14 socket head cap screw/ washer/ Steel M8 T-slot nut
C	Plate for L-joint, 40mm/ 5 pcs of M8x14 socket head cap screw/ washer/ Steel M8 T-slot nut
D	Plate for L-joint, 80mm/ 11 pcs of M8x14 socket head cap screw/ washer/ Steel M8 T-slot nut

Dimensions



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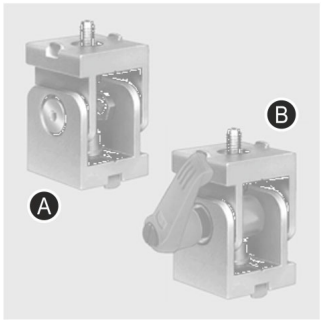
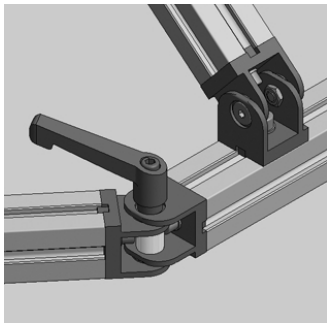
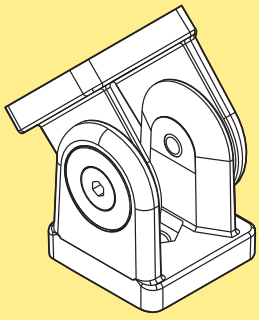
Stay bracket TC40





- Stay bracket for:
  - joining profiles at any angled position
  - use as heavy-duty hinge.
- Wear-resistant plastic bushes for easy action.
- Version with clamping lever permits easy adjustment without the need for tools.
- All mounting hardware are included

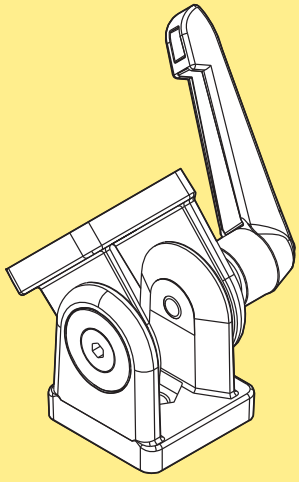
Stay bracket



Stay bracket **TCFJ 40**

All mounting hardware are included

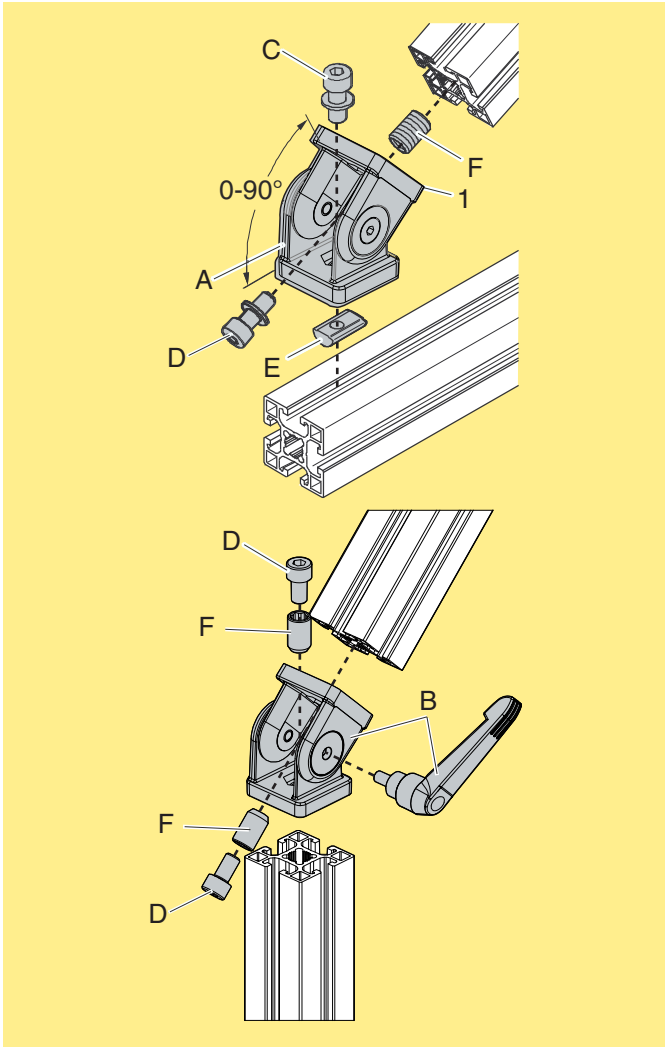
Stay bracket, with Locking lever



Stay bracket, with Locking lever **TCFJ 40 A**

All mounting hardware are included

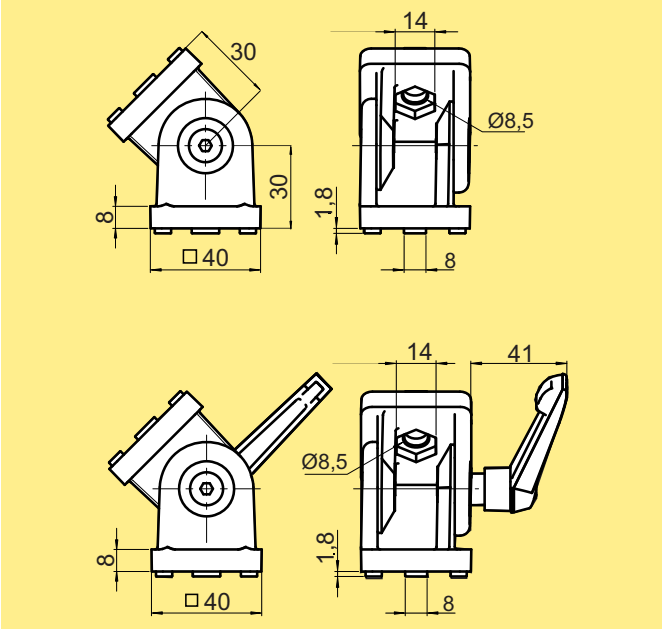
Assembly



Part list	
A	End joint, standard
B	End joint with clamping lever
C	M8x14 socket head cap screw/ 8.4 washer
D	M8x20 socket head cap screw/ 8.4 washer
E	Steel T-slot nut, M8
F	M12/ M8 reducing sleeve
1	Anti-rotation element

		Type/Version	Part number	Material	Colour
End joint	A	Standard	TCFJ 40	Aluminum	Anodised finish
	B	Star grip	TCFJ 40 A		
T-slot nut, M8	E		TCAN 8	Steel, galvanised	
M12/ M8 reducing sleeve	F		TCRS M12M8	Steel, galvanised	

Dimensions



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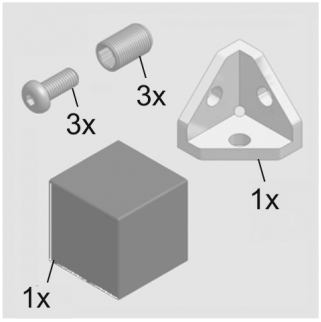
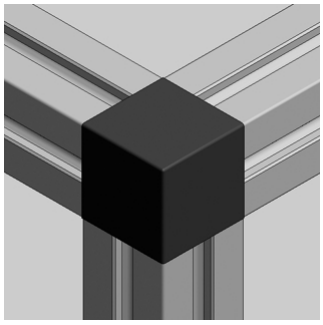
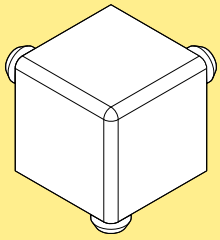
Corner bracket TC40, 40x40





- For right-angled corner joints.
- For joining three profiles to create a corner.
- No profile machining necessary.
- Bracket with anti-rotation element.
- Push-on end cap.

Corner connector, 40x40

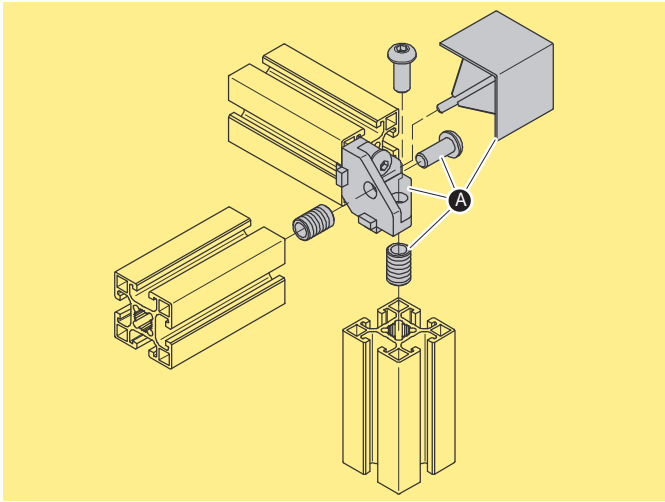


Corner connector, 40x40 **TCFA 40 AB**

Including cap and fixing material

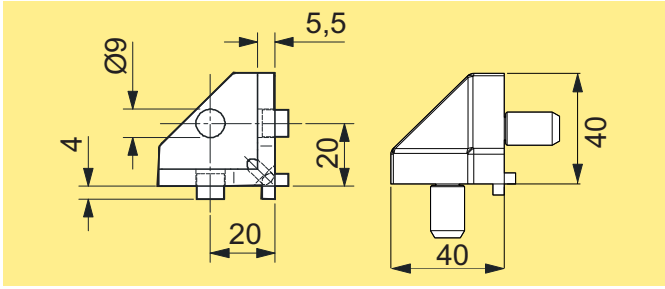
Die-cast zinc/plastic

Assembly

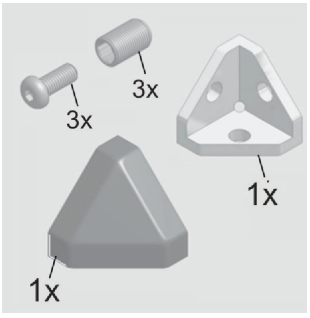


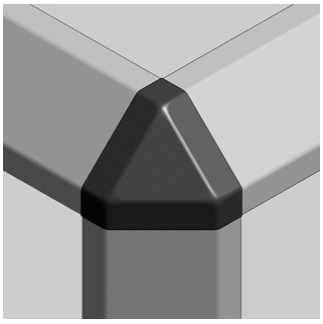
Part list	
A	Corner connector/ M8x20 ULS screw/ end cap/ M12/M8 reducing sleeve

Dimensions



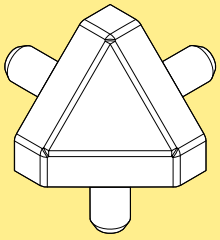
40x40 / 90° Corner connector TC40





- For right-angled corner joints.
- For joining three corner profiles to create a corner.
- No profile machining necessary.
- Bracket with anti-rotation element.
- Push-on end cap.

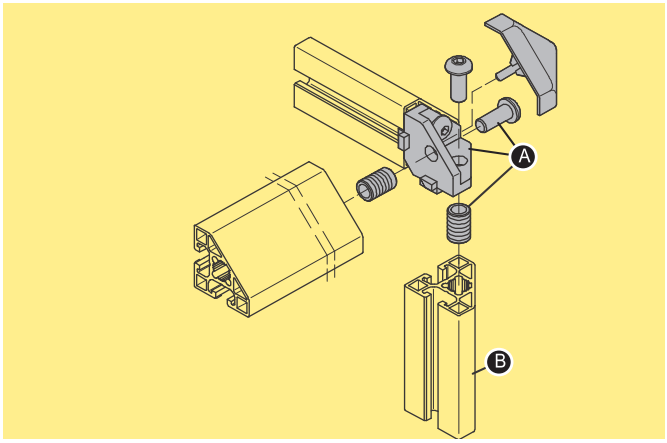
Corner connector, 40x40/90°



Corner connector, 40x40 / 90° **TCFA 40 BB**

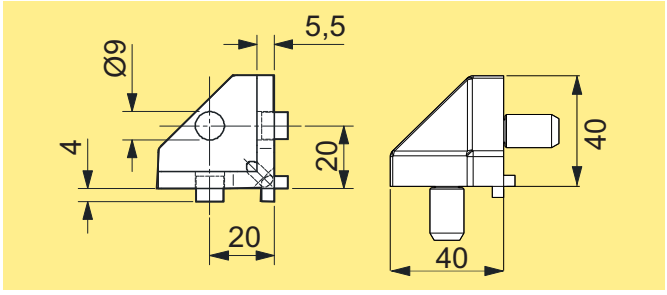
Including cap and fixing material

Assembly



Part list	
A	Corner bracket/ M8x20 ULS screw/ end cap/ M12/M8 reducing sleeve
B	TC40- 40x40/ 90° profile (not included)
C	40x40/ 90° end cap (not included)

Dimensions



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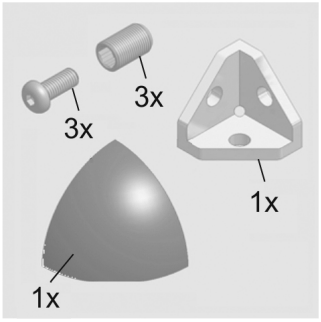
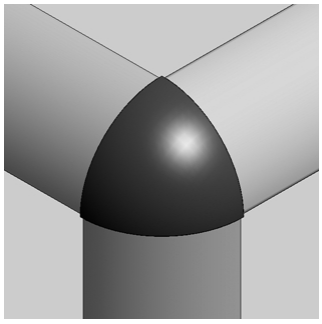
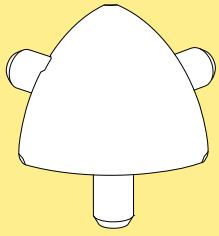
Corner bracket, 40x40 / 90°/ R40 TC40





- For right-angled corner joints.
- For joining three profiles to create a corner.
- No profile machining necessary.
- Bracket with anti-rotation element.
- Push-on end cap.

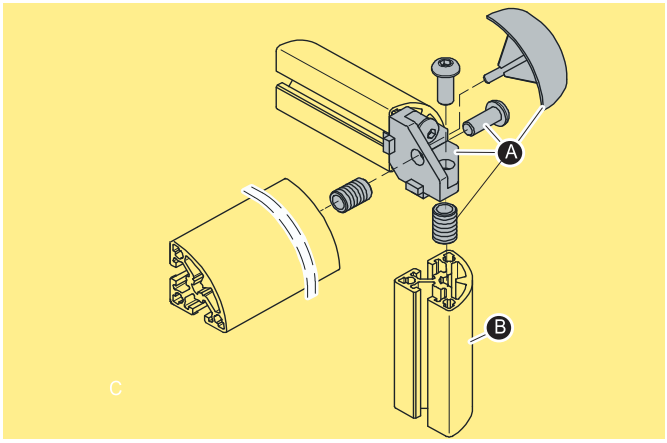
Corner connector, 40x40 / 90° / R40



Corner connector, 40x40 / 90° / R40 **TCFA 40 CB**

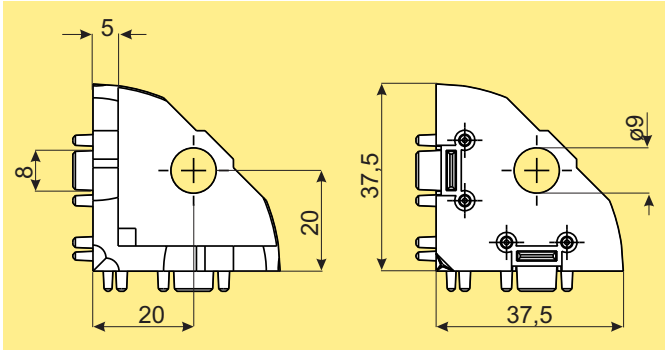
Including cap and fixing material

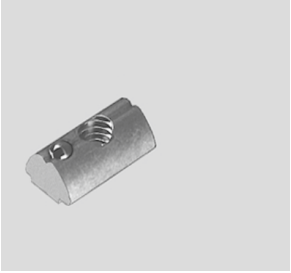
Assembly

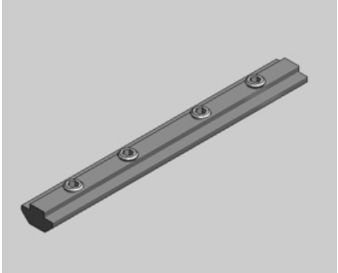


Part list	
A	Corner bracket/ M8x20 ULS screw/ end cap/ M12/M8 reducing sleeve
B	TC40- 40x40/ 90° profile (not included)
C	40x40/ 90° end cap (not included)

Dimensions

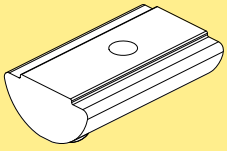






- For mounting profiles, construction parts and accessories at any point.
- T-slot nuts are turned into side of the profile slot or pushed into the end face.
- High-strength steel T-slot nuts- particularly suitable in conjunction with dynamic loading.

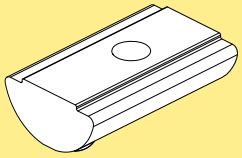
T-slot nut, M4, steel



T-slot nut, M4, steel **TCAN 4***

** Must be ordered in pack size 10 or pack size 100*

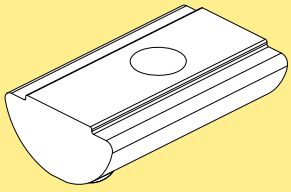
T-slot nut, M5, steel



T-slot nut, M5, steel **TCAN 5***

** Must be ordered in pack size 10 or pack size 100*

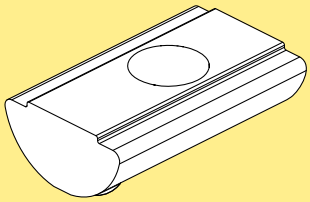
T-slot nut, M6, steel



T-slot nut, M6, steel **TCAN 6***

** Must be ordered in pack size 10 or pack size 100*

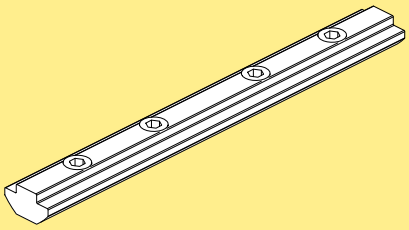
T-slot nut, M8, steel



T-slot nut, M8, steel **TCAN 8***

** Must be ordered in pack size 10 or pack size 100*

T-slot nut, 4xM8



T-slot nut, 4xM8 **TCAN 8x4***

** Must be ordered in pack size 10*

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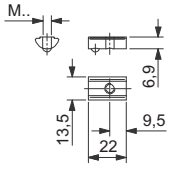
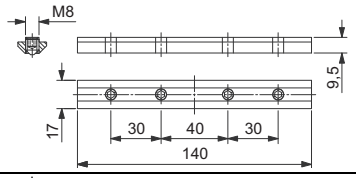
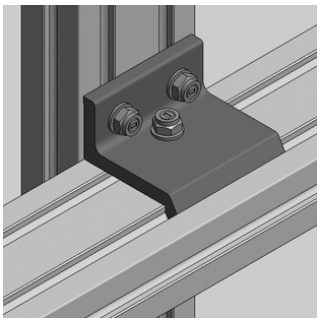
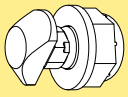
Material	Dimensions	Thread	Size					Part number
			mm	Nm	1	2	3	
Steel, galvanised		M4	22	5	Yes	Yes	No	TCAN 4
		M5	22	10	Yes	Yes	No	TCAN 5
		M6	22	15	Yes	Yes	No	TCAN 6
		M8	22	25	Yes	Yes	No	TCAN 8
		M8	140	25	No	No	Yes	TCAN 8x4
1) Can be turned into the profile slot								
2) For locking in position in the slot								
3) T-slot nut including. grub screws								

T-head bolts, TC40



- For mounting construction parts and accessories at any point.
- T-head is pushed into end face of the profile slot or turned into the side.
- Self-locking nut.
- Secure fit- position marking shows position of T-head.

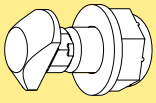
T-bolt, M8x16



T-bolt, M8x16 **TCAT 8x16***

** Must be ordered in pack size 100*

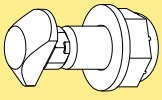
T-bolt, M8x20



T-bolt, M8x20 **TCAT 8x20***

** Must be ordered in pack size 100*

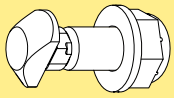
T-bolt, M8x23



T-bolt, M8x23 **TCAT 8x23***

** Must be ordered in pack size 100*

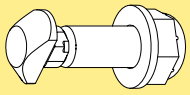
T-bolt, M8x25



T-bolt, M8x25 **TCAT 8x25***

** Must be ordered in pack size 100*

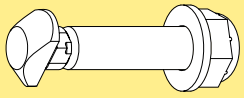
T-bolt, M8x30



T-bolt, M8x30 **TCAT 8x30***

** Must be ordered in pack size 100*

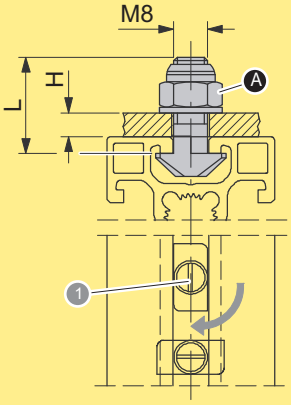
T-bolt, M8x40



T-bolt, M8x40 **TCAT 8x40***

** Must be ordered in pack size 100*

Dimensions



Part list	
A	M8 T-head bolt/ 8.4 washer/ M8 nut
1	Position marking

Designation		Size H mm	Thread M8xL mm	Part number	Pack size	Material
T-head bolt including. nut	A	4	M8x16	TCAT 8x16	100	Steel, galvanised
		8	M8x20	TCAT 8x20	100	
		10	M8x23	TCAT 8x23	100	
		12	M8x25	TCAT 8x25	100	
		16	M8x30	TCAT 8x30	100	
		26	M8x40	TCAT 8x40	100	

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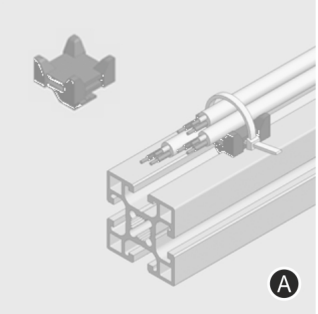
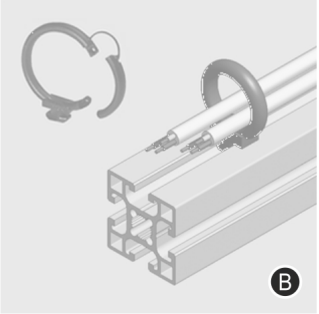
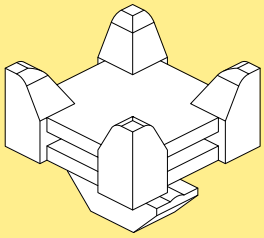
Cable holders, TC40





- Holder for mounting power and control lines to system profiles.
- Various shapes and sizes.
- Holders swing into system slot at any position.

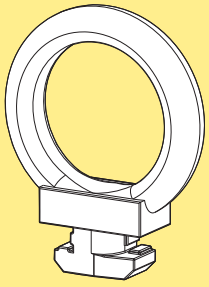
Cable holder, black



Cable holder, 22x22mm black **TCCH 22x22 B***

** Must be ordered in pack size 10*

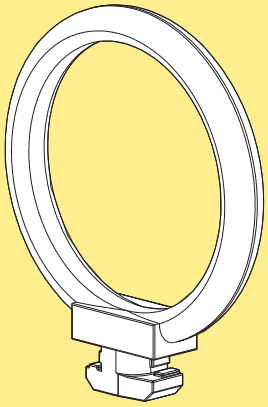
Cable holder, 25 mm diameter, black



Cable holder, 25 mm diameter, black **TCCH 25 B***

** Must be ordered in pack size 10*

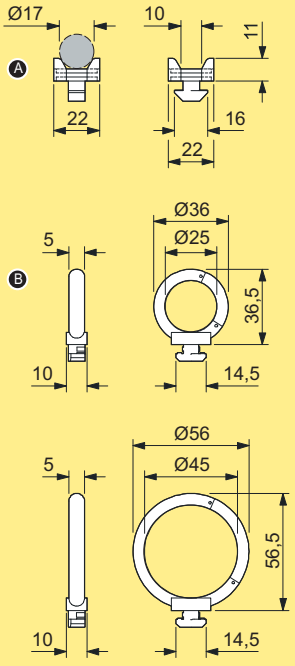
Cable holder, 45 mm diameter, black



Cable holder, 45 mm diameter, black **TCCH 45 B***

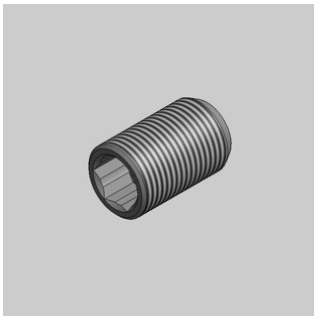
** Must be ordered in pack size 10*

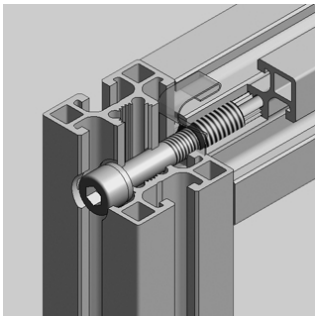
Dimensions



Designation		Size mm	Part number	Pack size	Colour	Material
Cable binder block	A	22x22	TCCH 22x22 B	10	Black (similar to RAL 9005)	PA 6
Cable holder	B	Ø25	TCCH 25 B	10		
		Ø45	TCCH 45 B	10		

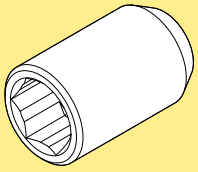
Reducing sleeve M12/ M8, TC40





- Use for mounting M8 screws in M12 screw channels.
- The reducing sleeve is screwed into the screw channel using impact driver and 8 mm hexagon socket bit.

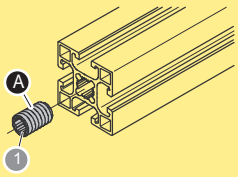
Sleeve, M12 to M8



Sleeve, M12 to M8, steel, galvanised **TCRS M12M8***

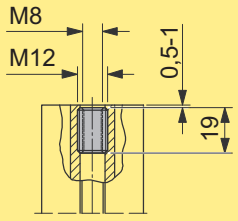
** Must be ordered in pack size 10 or pack size 100*

Assembly



Part list	
A	M12/ M8 reducing sleeve
1	8mm hexagon socket

Dimensions



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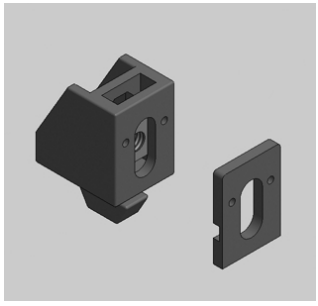
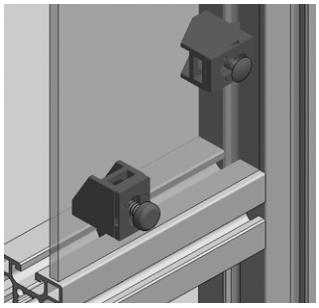
Frame elements

Contents

Assembly block TC40 79
Multiblock TC40 81
Connecting strip TC40 82

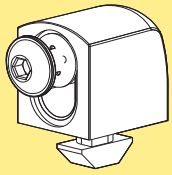
Assembly block TC40





- Any thickness of panel material easy to install using screws.
- Assembly blocks swing into system slot at any position.
- Adjustable nut for evening out tolerances.
- Push-fit spacers for levelling.
- End cap TCBE M6 G and TCBE M6 B for Hex. socket button head screw
- Please make a separate order for M6 screws for installing panel elements and end caps for TCAM 6 G and TCAM 6 B.

Assembly block, M6, grey or black



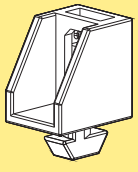
Assembly block, M6, grey	**TCAM 6 AG***
Assembly block, M6, black	**TCAM 6 AB***

Plastic PA 30% fiberglass

Screw and anti-loss washer included

** Must be ordered in pack size 10*

Assembly block, M6, grey or black



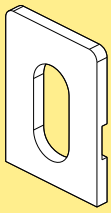
Assembly block, M6, grey	**TCAM 6 G***
Assembly block, M6, Black	**TCAM 6 B***

Plastic PA 30% fiberglass

Mounting screw not included, use MBC6S 6x16

** Must be ordered in pack size 10*

Spacer, 2/3/5 mm, grey or black

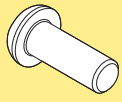


Spacer, 2 mm, grey	**TCAS 2 G***
Spacer, 2 mm, black	**TCAS 2 B***
Spacer, 3 mm, grey	**TCAS 3 G***
Spacer, 3 mm, black	**TCAS 3 B***
Spacer, 5 mm, grey	**TCAS 5 G***
Spacer, 5 mm, black	**TCAS 5 B***

** Must be ordered in pack size 10*

Note! Only for TCAM 6 G and TCAM 6 B

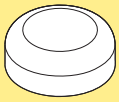
Hex. socket button head screw, ISO 7380 M6x16 10.9-A2K



Hex. socket button head screw, ISO 7380 M6x16 10.9-A2K	**MBC6S 6x16***

** Must be ordered in pack size 100*

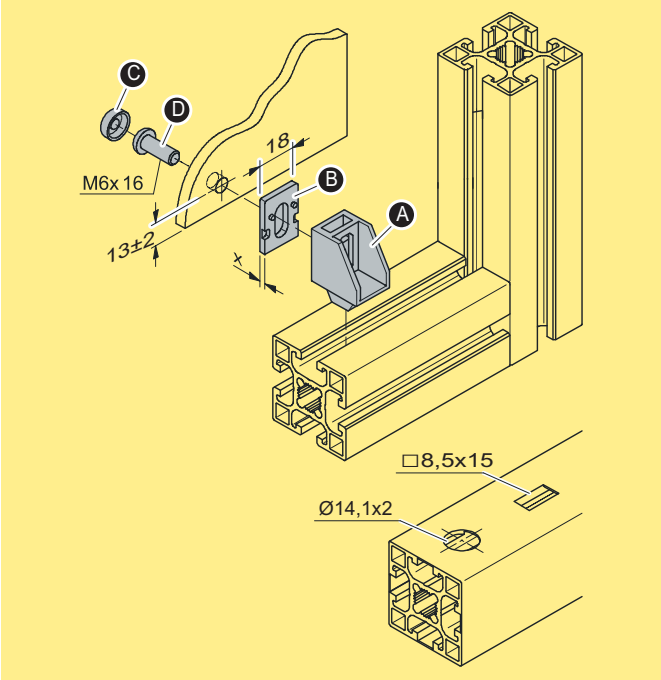
Plug, for screw ISO 7380 M6, grey or black



Plug, for screw ISO 7380 M6, grey	**TCBE M6 G**
Plug, for screw ISO 7380 M6, black	**TCBE M6 B**

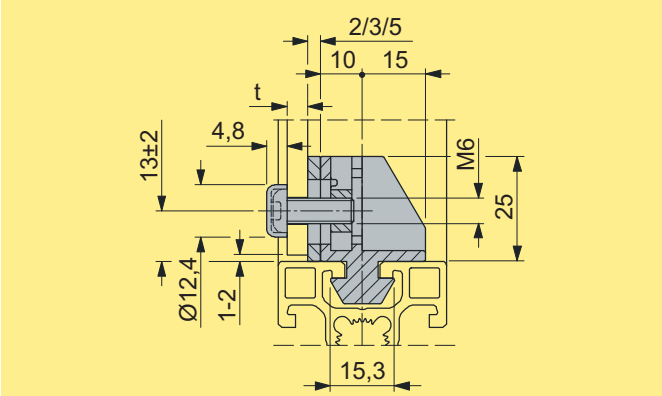
Pack size 100 pcs

Assembly

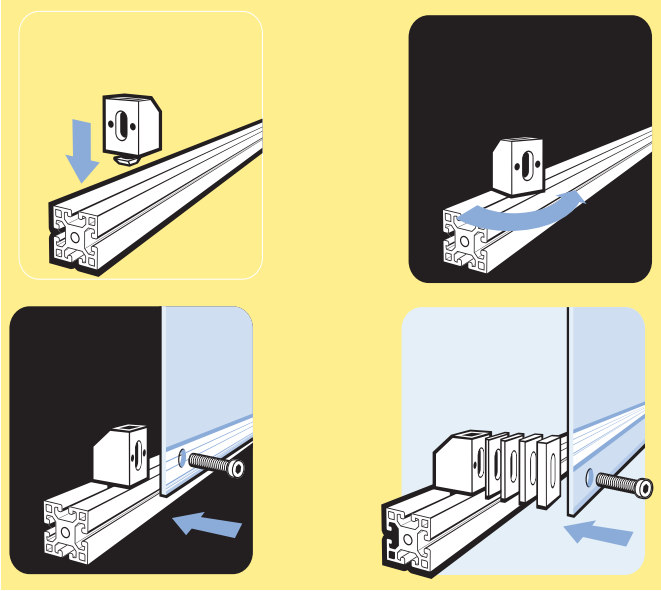


Part list	
A	Assembly block
B	Spacer
C	End cap for ULS M6 screw
D	M6x16 ULS screw

Dimensions



Further fitting instructions



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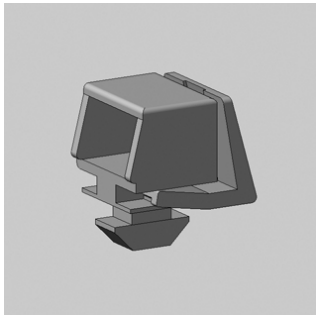
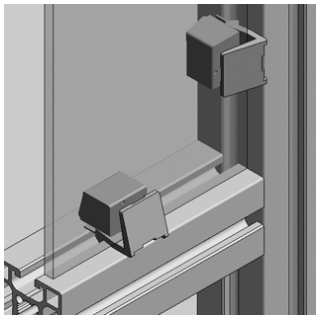
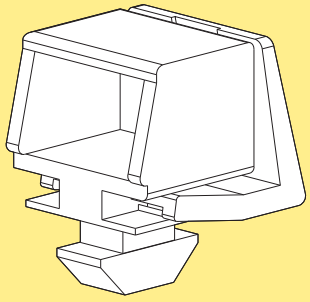
Multiblock TC40





- Panel material easily installed by clamping, no need for machining work.
- Panel material is installed using a clamping piece.
- Multiblocks swing into system slot at any position.

Multiblock, grey or black

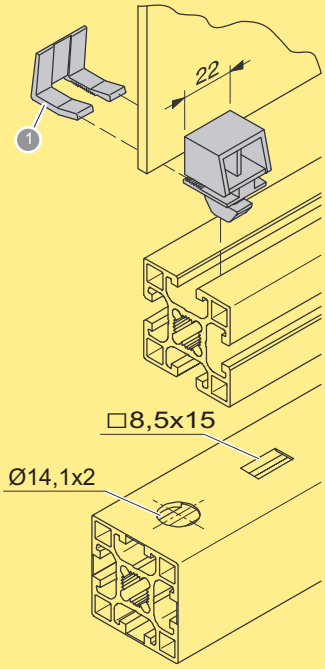


Multiblock, grey	**TCAM 22 G***
Multiblock, black	**TCAM 22 B***

** Must be ordered in pack size 10*

Material: PA-GF

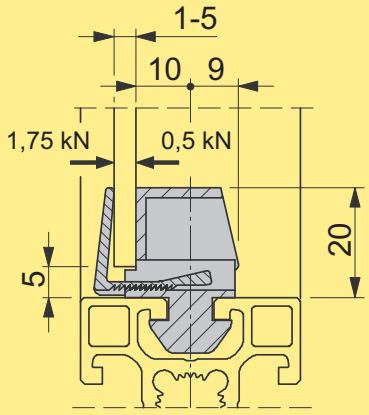
Assembly



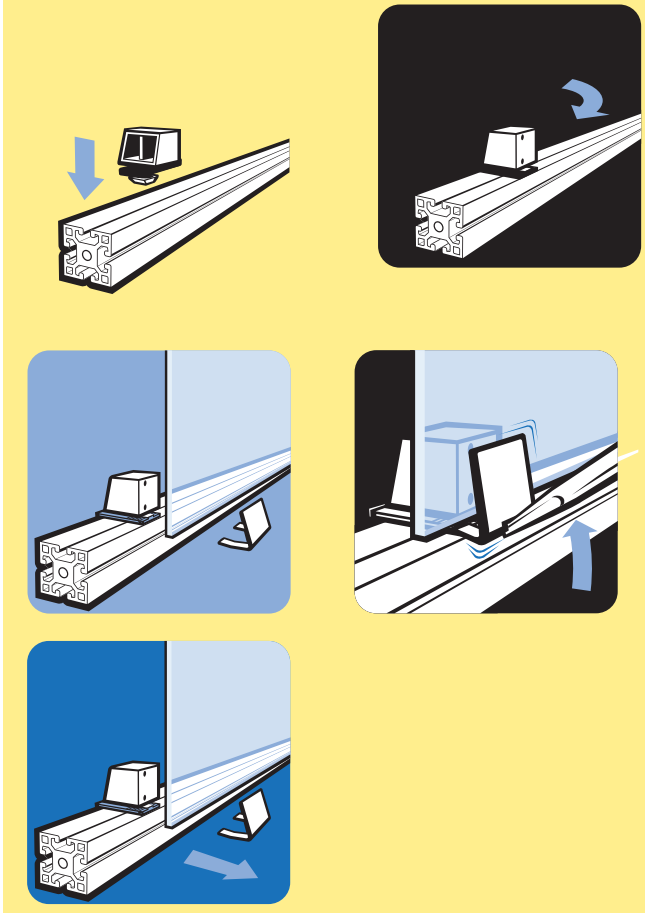
Part list	
1	Clamping piece

Dimensions

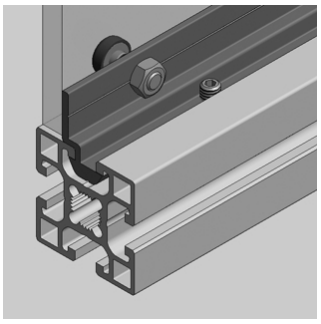
- Maximal load-bearing capacity: Figure below refer to a panel element in a size of 1.5x1.5m, installed with 12multiblocks.



Further fitting instructions

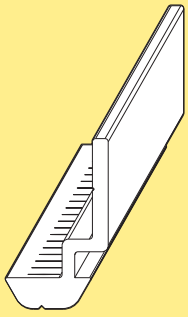


Connecting strip TC40



- For mounting any thickness of panel material using screws.
- The full-length connecting strip is turned into the system slot and fixed in place using the grub screws.
- Please make a separate order for M6 ULS screw and nut for installing panel elements as well as end caps.

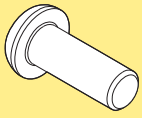
Connecting strip, L=2000, 20 x M6



Connecting strip, L=2000, 20 x M6 **TCAM 2x18**

Material: Aluminum, anodised finish

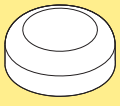
Slotted set screw, ISO 7380 M6x16 10.9-A2K



Slotted set screw, ISO 7380 M6x16 10.9-A2K **MBC6S 6x16 M***

** Must be ordered in pack size 100*

Plug, for screw ISO 7380 M6, grey or black

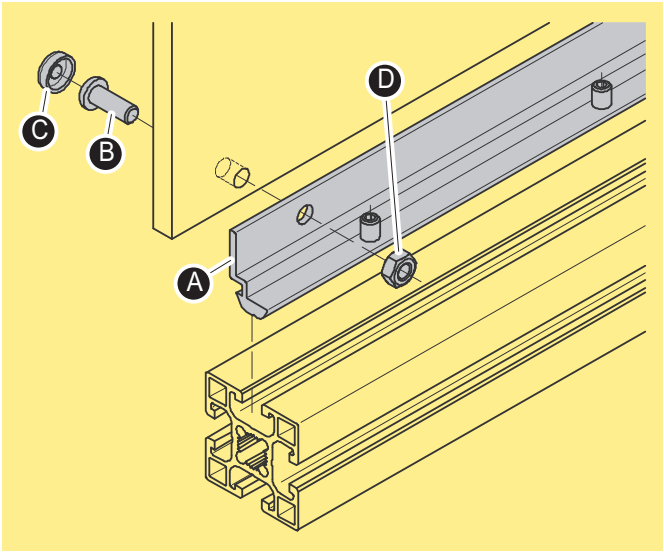


Plug, for screw ISO 7380 M6, grey **TCBE M6 G***

Plug, for screw ISO 7380 M6, black **TCBE M6 B***

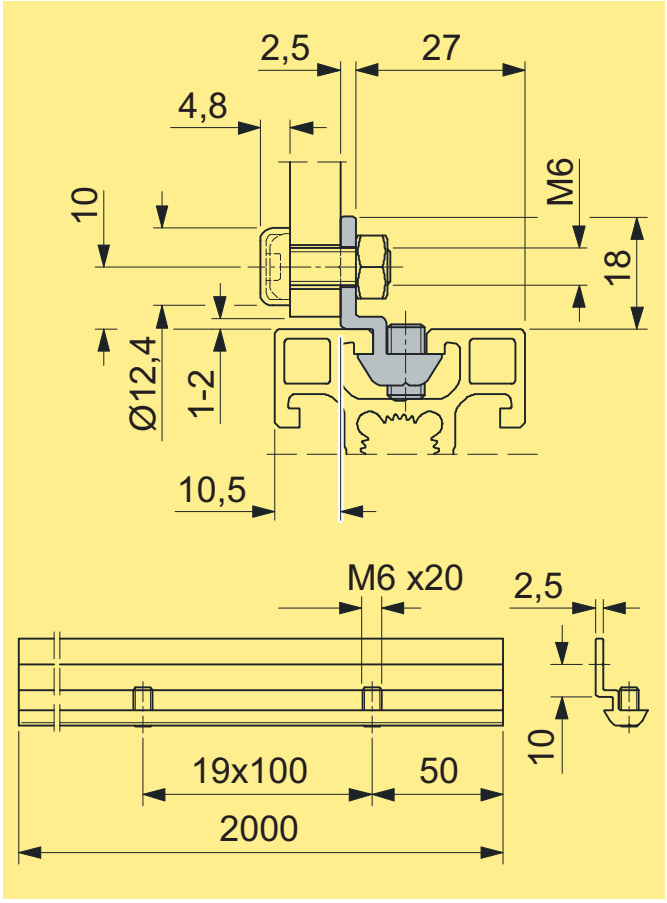
** Must be ordered in pack size 100*

Assembly



Part list	
A	Connecting strip
B	M6x16 ULS screw
C	End cap for ULS M6 screw
D	Hexagon nut M6

Dimensions



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Base elements

Contents

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Floor attachment bracket TC40 86
End plate 87
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Floor attachment bracket....93
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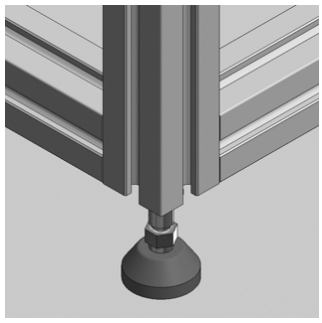
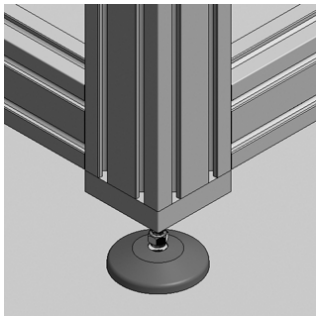
Castors....95
Foot....98

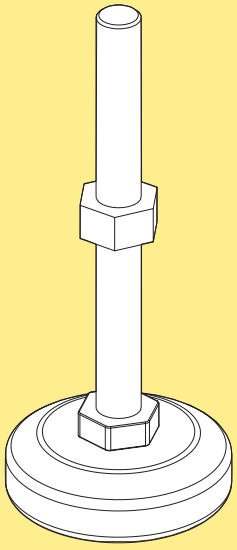
Adjustable feet TC40





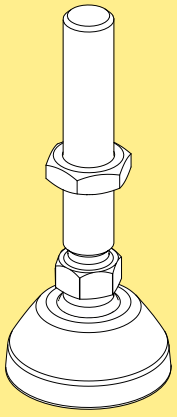
- Adjustable foot, infinitely variable in height, for devices and casings.
- Cost-effective, fast assembly directly in the profile using screw channel or in combination with threaded bush/ fixing plates.
- Moving foot plate for stability on uneven surfaces.
- Threaded rod: Steel, galvanised.
- Accessories: Fixing plates and clamping straps.

Adjustable foot, M8x40, black



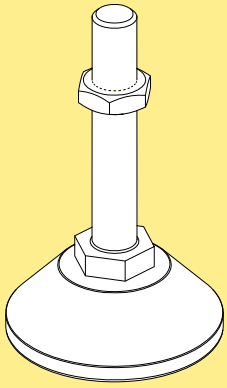
Adjustable foot, M8x40, black	**TCFS 8x40 PB**

Adjustable foot, M12x38, grey or black



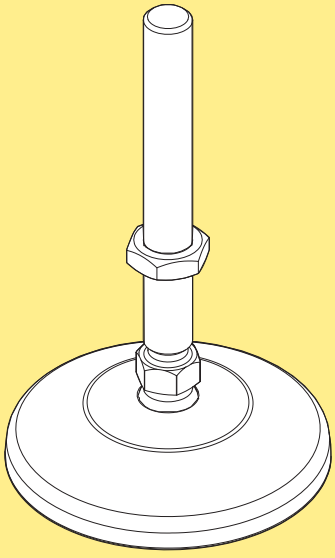
Adjustable foot, M12x38, grey	**TCFS 12x38 PG**
Adjustable foot, M12x38, black	**TCFS 12x38 PB**

Adjustable foot, M12x58, black



Adjustable foot, M12x58, black **TCFS 12x58 PB**

Adjustable foot, M12x79, grey or black



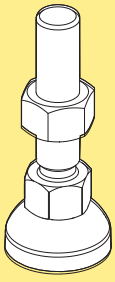
Adjustable foot, M12x79, grey **TCFS 12x79 PG**

Adjustable foot, M12x79, black **TCFS 12x79 PB**

Adjustable foot, M12x79, grey Die-cast zinc **TCFS 12x79 ZG**

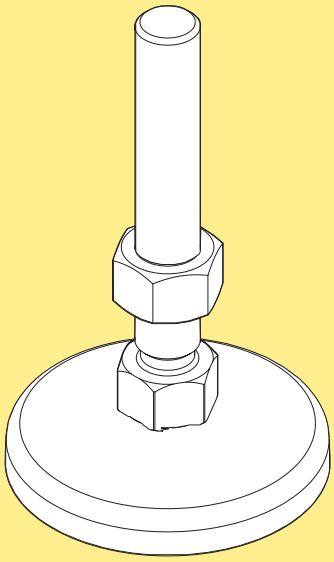
Adjustable foot, M12x79, black Die-cast zinc **TCFS 12x79 ZB**

Adjustable foot, M16x39, black



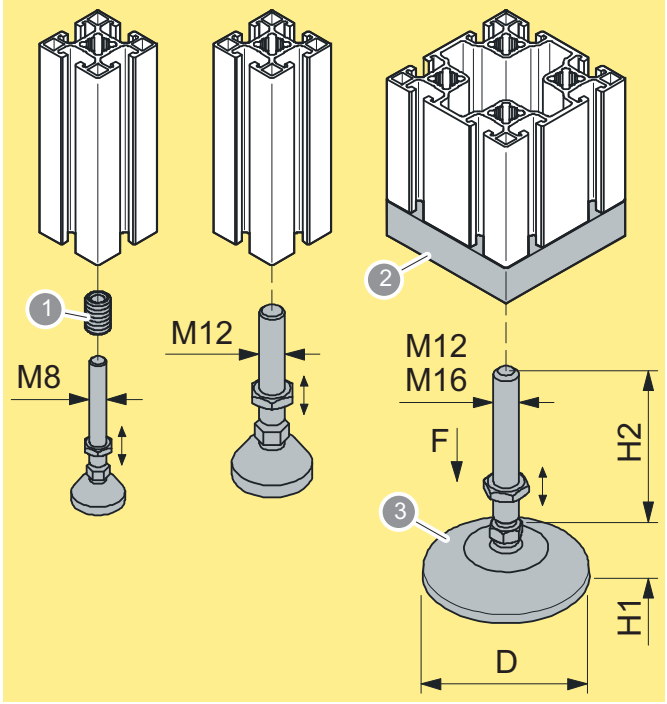
Adjustable foot, M16x39, black Die-cast zinc **TCFS 16x39 ZB**

Adjustable foot, M16x79, black



Adjustable foot, M16x79, black Die-cast zinc **TCFS 16x79 ZB**

Assembly



1) M12/ M8 reducing sleeve	TCRS M12M8
2) Fixing plate	
3) Adjustable foot	

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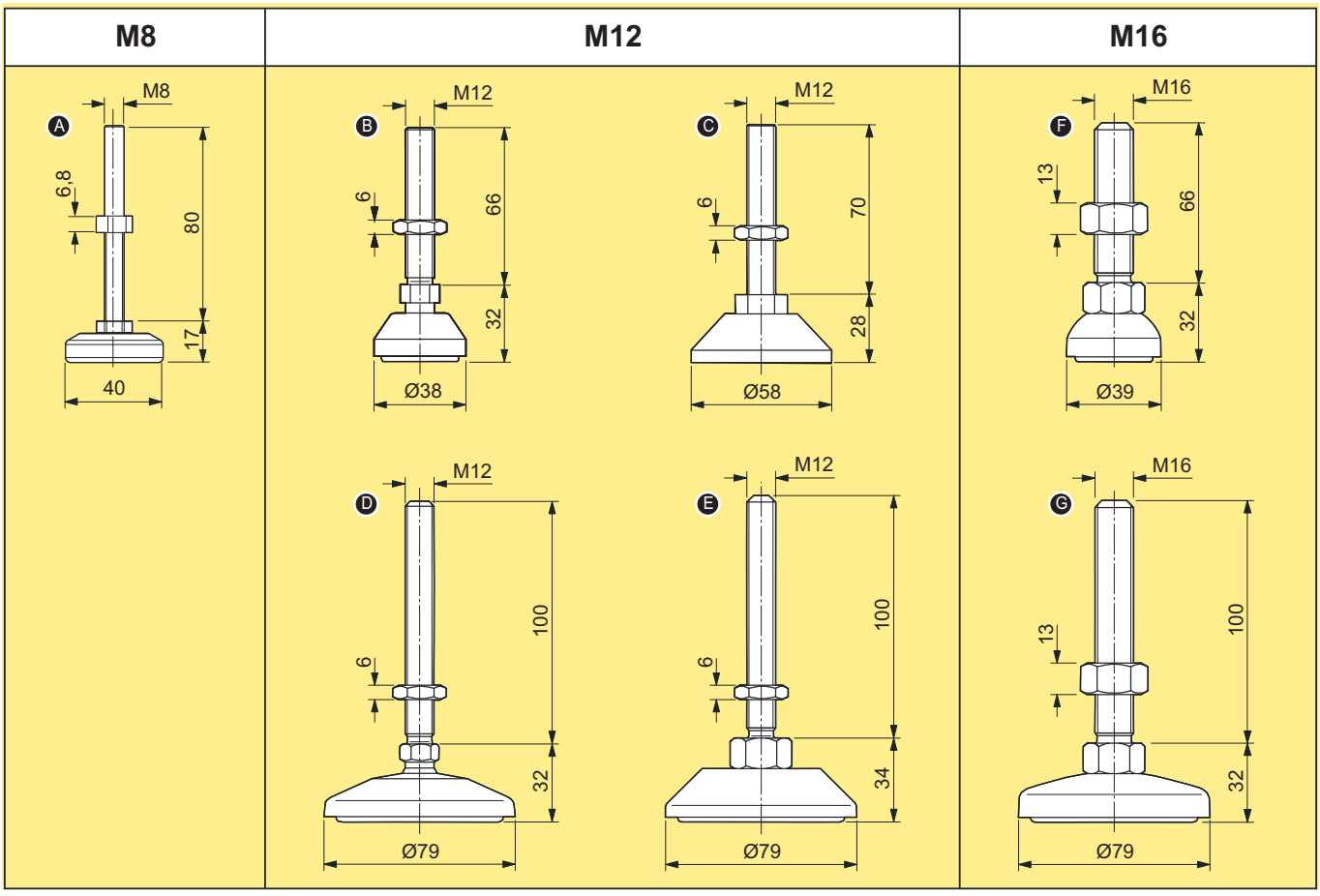
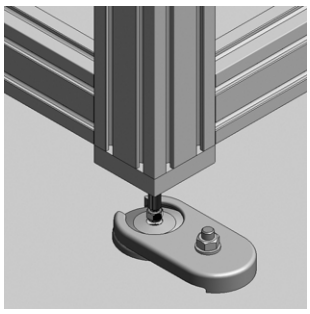


									Part number		
			D [mm]	H1 [mm]	H2 [mm]	kN	1	2		3	4
Adjustable foot	A	M8	40	17	80	7	No	No	TCFS 8X40 PB	Black (similar to RAL 9005)	Plastic
	B	M12	38	32	66	7,5	Yes	Yes	TCFS 12X38 PG	Silver grey (similar to RAL 7001)	
									TCFS 12X38 PB	Black (similar to RAL 9005)	
	C		58	28	70	6,5	No	Yes	TCFS 12X58 PB	Black (similar to RAL 9005)	
	D		79	32	100	7,5	Yes	Yes	TCFS 12X79 PG	Silver grey (similar to RAL 7001)	
									TCFS 12X79 PB	Black (similar to RAL 9005)	
	E		79	34	100	20	Yes	No	TCFS 12X79 ZG	Silver grey (similar to RAL 7001)	Die-cast zinc
									TCFS 12X79 ZB	Black (similar to RAL 9005)	
	F	M16	39	32	66	25	Yes	No	TCFS 16X39 ZB	Black (similar to RAL 9005)	
	G		79	32	100	25	Yes	No	TCFS 16X79 ZB	Black (similar to RAL 9005)	

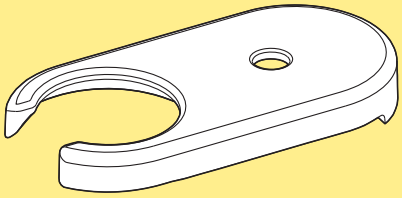
1	Foot plate with damper
2	Foot plate, pivoted
3	Colour
4	Foot plate material

Floor attachment bracket TC40



- Floor attachment bracket for combining with 79-mm diameter adjustable feet
  (part. no. TCFS 12X79 ZG, TCFS 12X79 ZB)
- Used for fixing foot to floor
- Can be retrofitted
- Please order floor-mounting fixing material separately

Floor attachment bracket grey or black

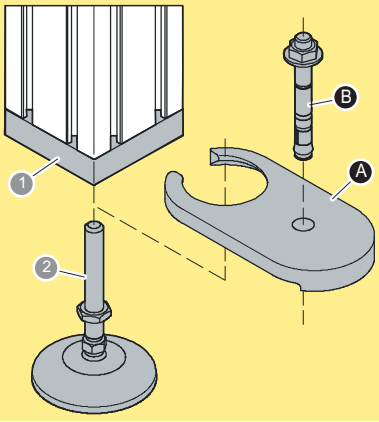


Floor attachment bracket, grey **TCFF 80x150 G**
Die-cast zinc
Silver grey (similar to RAL 7001)

Floor attachment bracket, black **TCFF 80x150 B**
Die-cast zinc
Black (similar to RAL 9005)

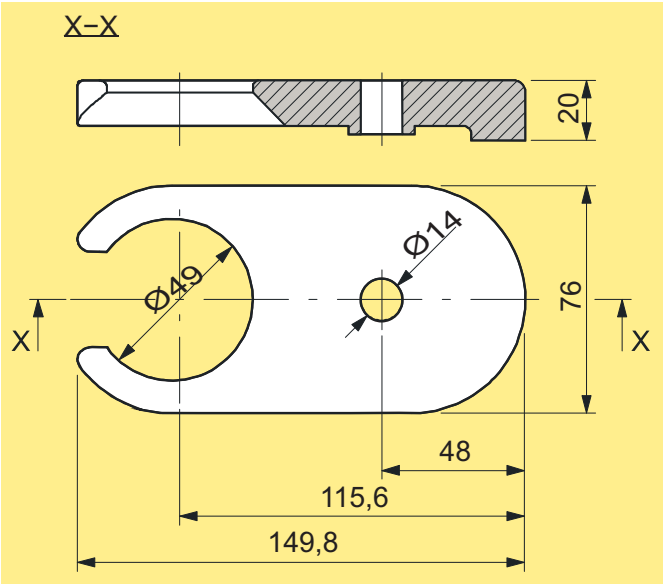
For adjustable foot diameter 79 mm

Assembly



Part list	
A	Floor attachment bracket
B	Anchor bolt
1	Fixing plate
2	Adjustable foot

Dimensions



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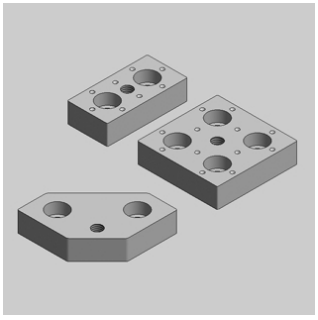
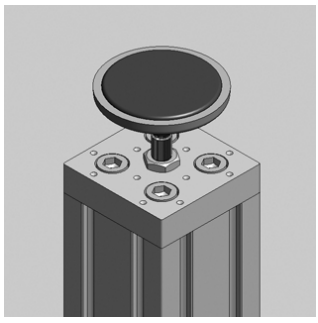
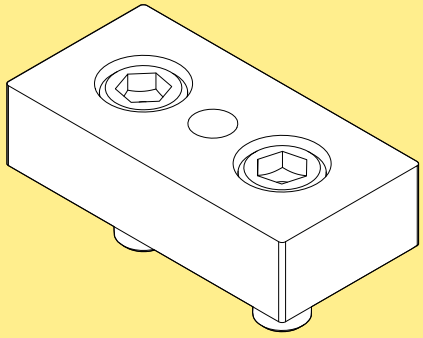
End plate





- End plates for centred mounting of adjustable feet, castors or eyebolts to 40x80 or 80x80mm system profiles.
- Suitable for high loads.
- Contour geometry designed to match TC40 profiles.

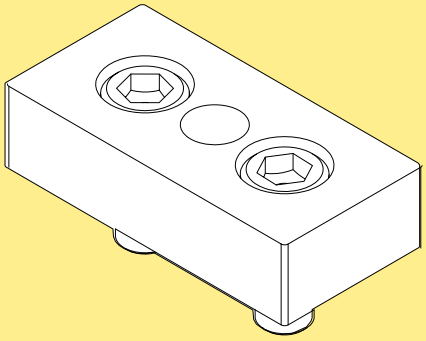
End plate, M12, 40x80



End plate, M12, 40x80 **TCFE 40x80 M12**

Including screws

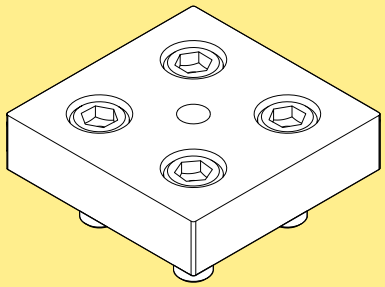
End plate, M16, 40x80



End plate, M16, 40x80 **TCFE 40x80 M16**

Including screws

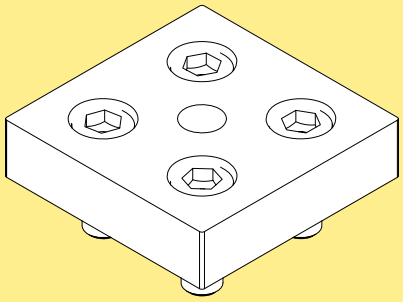
End plate, M12, 80x80



End plate, M12, 80x80 **TCFE 80 M12**

Including screws

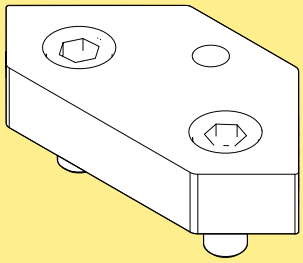
End plate, M16, 80x80



End plate, M16, 80x80 **TCFE 80 M16**

Including screws

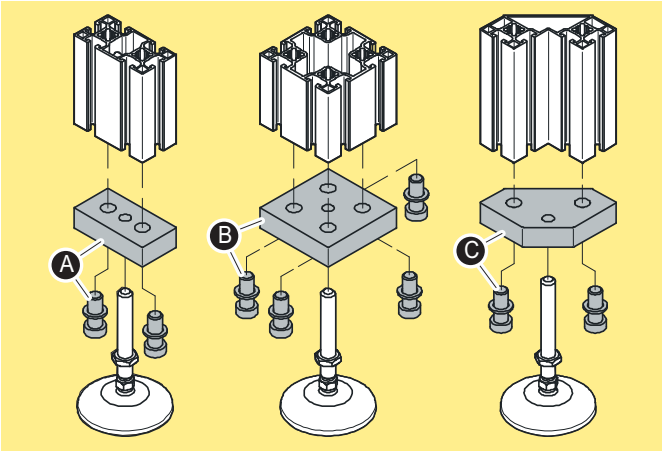
End plate, M12, 80x80 / 90°



End plate, M12, 80x80 / 90° **TCFE 80 M12A**

Including screws

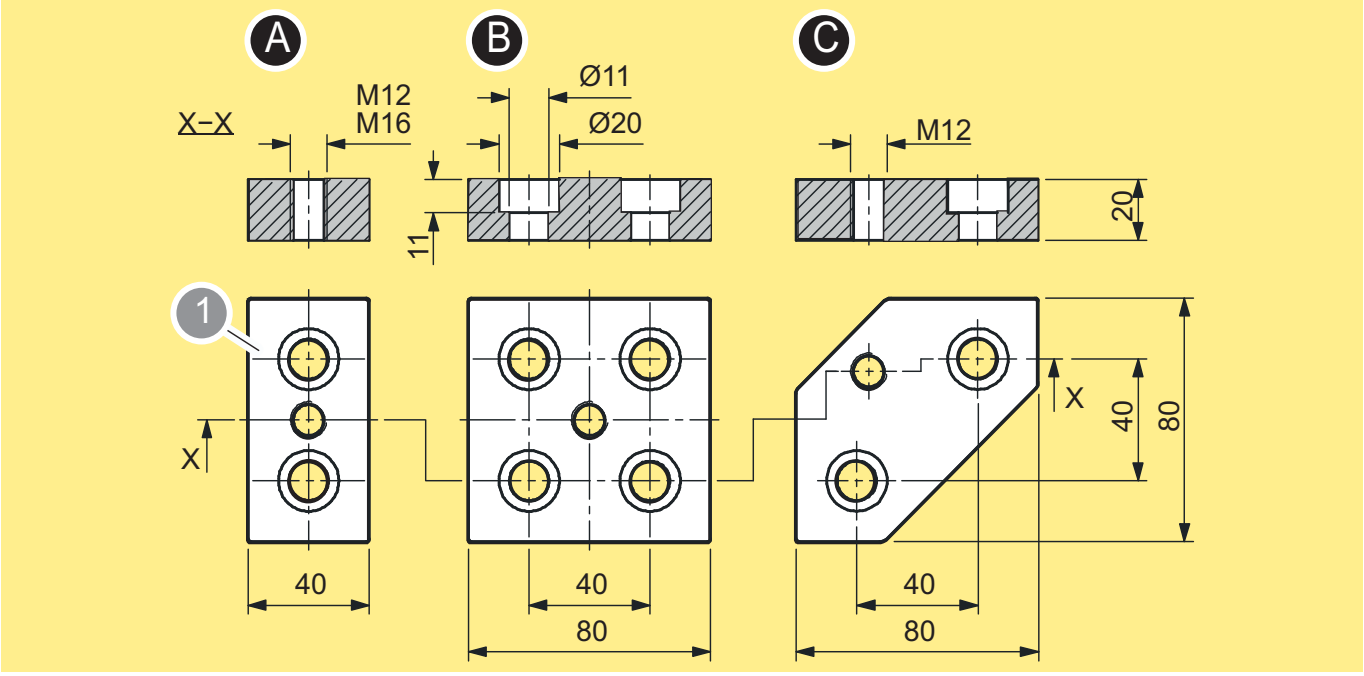
Assembly



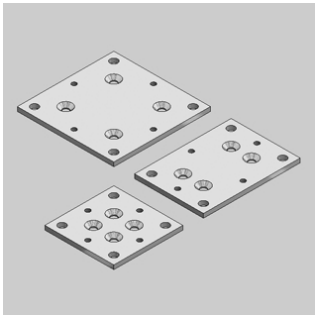
Part list	
A	40x80mm end plate / M12x30 socket head cap screw / 12 circlip
B	80x80mm end plate / M12x30 socket head cap screw / 12 circlip
C	80x80/90° end plate / M12x30 socket head cap screw / 12 circlip

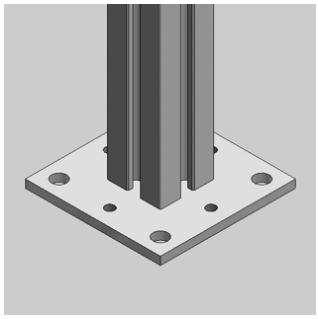
				Part. no.		
			D [mm]			
End plate including fixing material	A	M12	40x80	TCFE 40X80 M12	Aluminum	Anodised finish
	B		80x80	TCFE 80 M12		
	C		80x80 / 90°	TCFE 80 M12A		
	A	M16	40x80	TCFE 40X80 M16		
	B		80x80	TCFE 80 M16		

Dimension



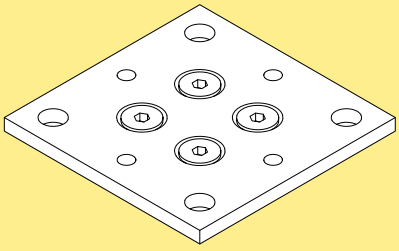
Foot Plate for beams





- Foot plate for fixing profiles to the floor.
- Suitable for high loads.
- To facilitate alignment, four M8 threaded holes are in each case provided for fitting levelling screws (not included).
- Profile mounting with countersunk-head screws.
- Please order floor-mounting fixing material separately.

Foot plate for beam, 40x40 Light/Basic

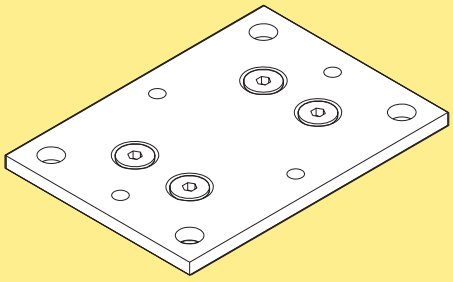


Foot plate for beam, 40x40 light / basic

TCFB 40 LB

Including screws

Foot plate for beam, 40x80 Light/Basic

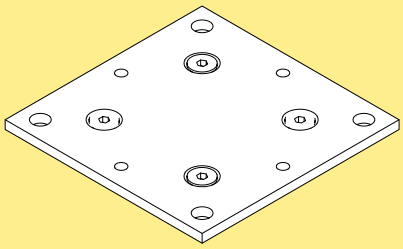


Foot plate for beam, 40x80 light / basic

TCFB 40x80 LB

Including screws

Foot plate for beam, 80x80 Basic

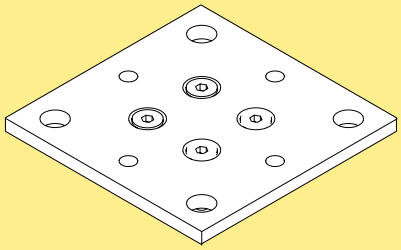


Foot plate for beam, 80x80 basic

TCFB 80 B

Including screws

Foot plate for beam, 40x40 Heavy

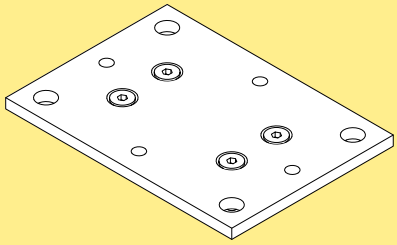


Foot plate for beam, 40x40 heavy

TCFB 40 H

Including screws

Foot plate for beam, 40x80 Heavy

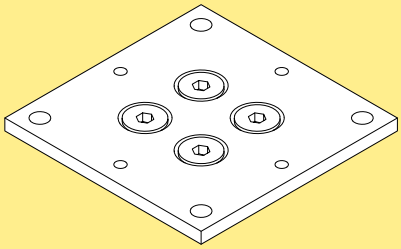


Foot plate for beam, 40x80 heavy

TCFB 40x80 H

Including screws

Foot plate for beam, 80x80 Heavy/Ultra

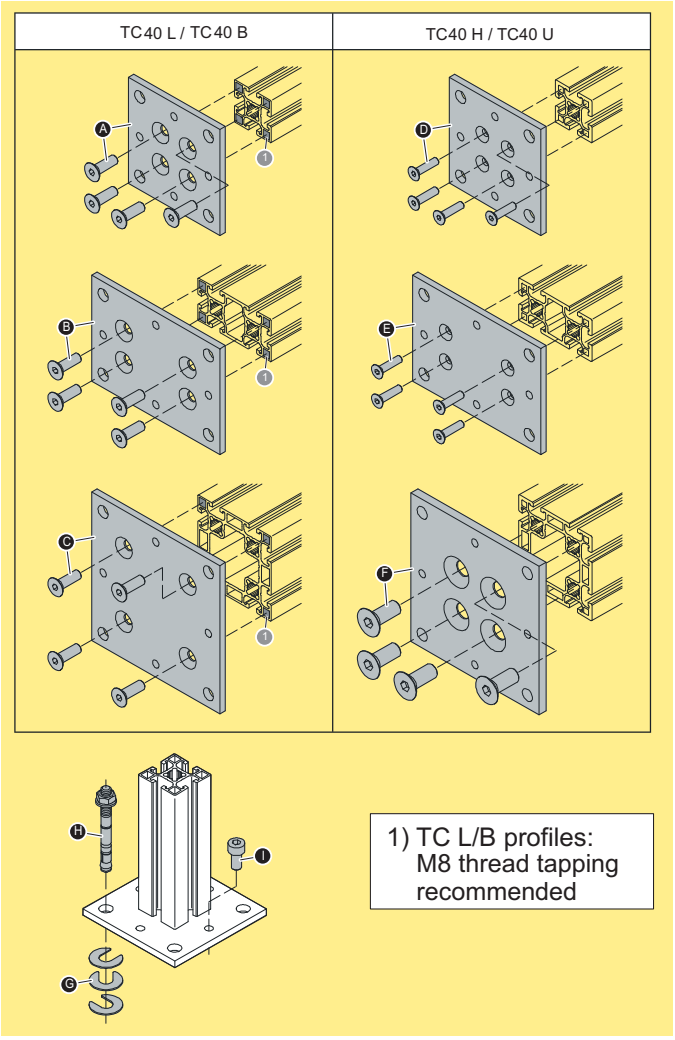


Foot plate for beam, 80x80 heavy/ultra

TCFB 80 HU

Including screws

Assembly



			mm	Part. no	
End plate including fixing material	A		40x40	TCFB 40 LB	Steel, galvanised
	B		40x80	TCFB 40X80 LB	
	C		80x80	TCFB 80 B	
	D		40x40	TCFB 40 H	
	E		40x80	TCFB 40X80 H	
	F		80x80	TCFB 80 HU	
Floor washer	G	See“Floor washer, open version” on page 92		BRB 11X26	Steel, galvanised
Anchor bolt, M8	H			--	
Levelling screw, M8	I			--	

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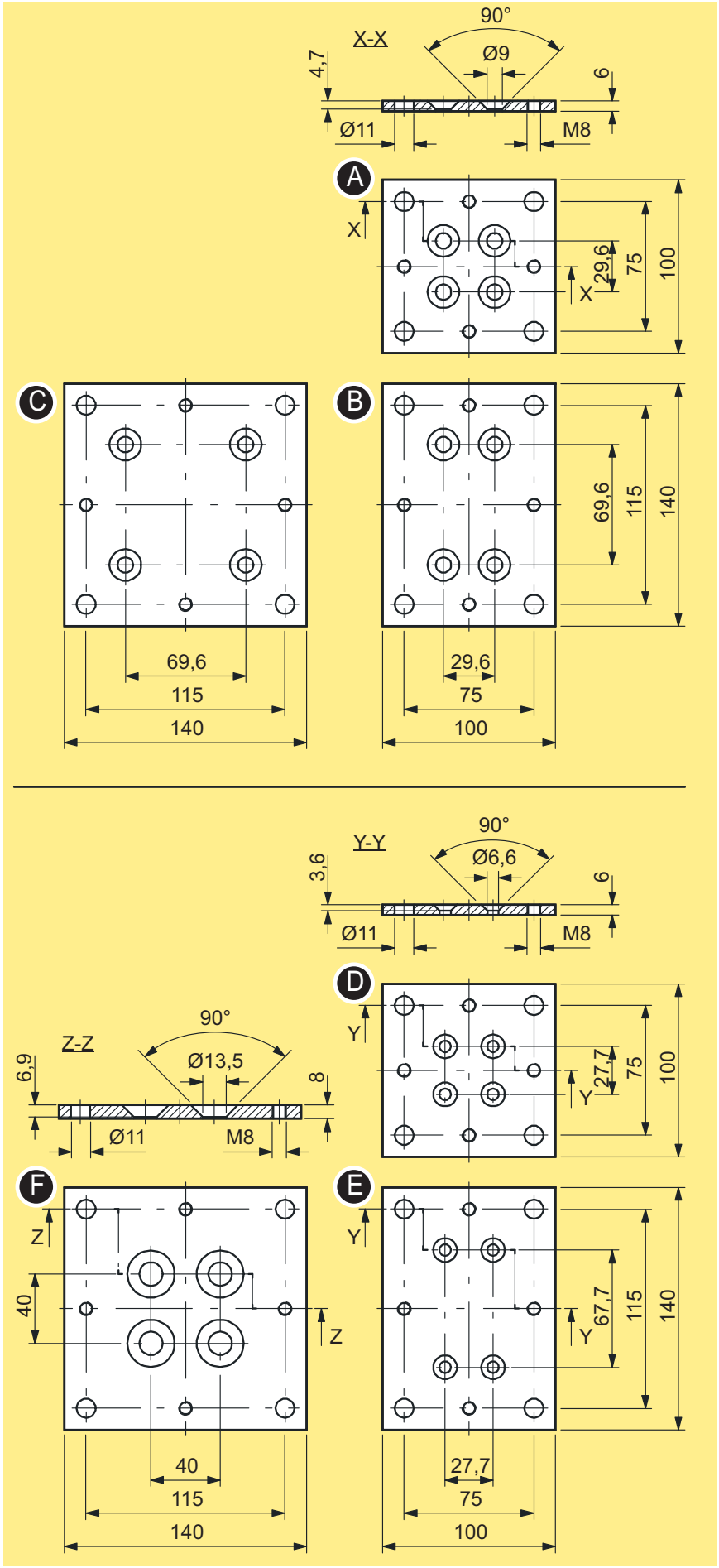
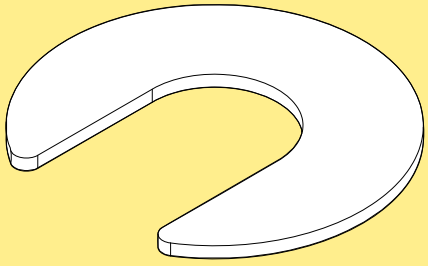
Dimensions


X-X
90°
Ø9
4,7
6
Ø11
M8
A
X
29,6
75
100
X
C
B
69,6
115
140
69,6
115
140
29,6
75
100
Y-Y
90°
Ø6,6
3,6
6
Ø11
M8
D
Y
27,7
75
100
Y
Z-Z
90°
Ø13,5
6,9
8
Ø11
M8
F
E
Z
40
Z
Y
67,7
115
140
Y
40
115
140
27,7
75
100

Floor washer, open version

- Washer for easy levelling of floor fixings.
- The open cross section permits subsequent (dis)assembly without having to remove the screw connection.

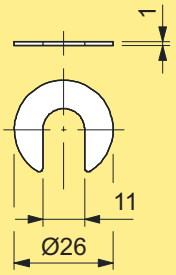
Washer, open version



Washer, open version **BRB 11x26**

** Must be ordered in pack size 10*

Dimensions



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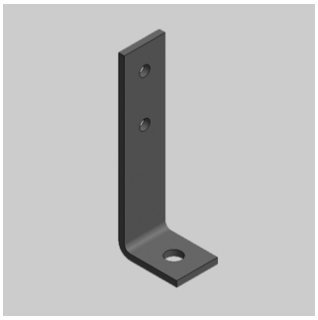
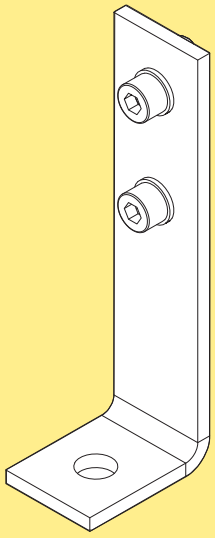
Floor attachment bracket



- Floor attachment bracket for fixing profiles to the floor.
- Suitable for medium loads.
- Suitable for high vertical loads in conjunction with adjustable foot.
- Fixing material:
  - for mounting profile, included
  - for floor mounting, please order separately.

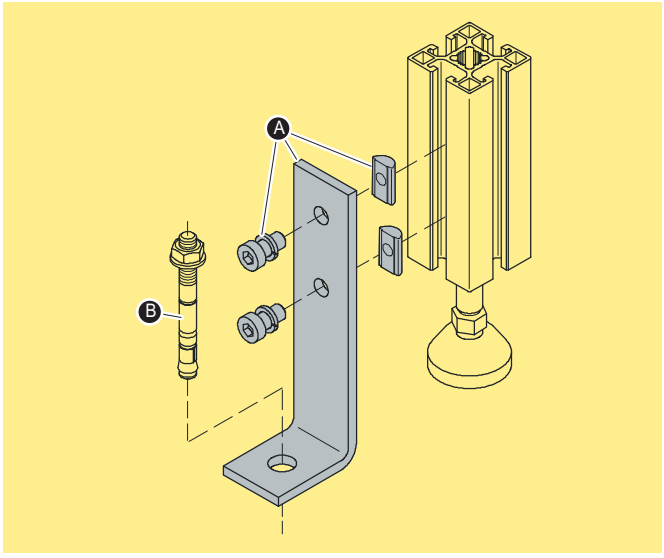
Floor attachment bracket, 50x150



Floor attachment bracket, 50x150 **TCFA 150**

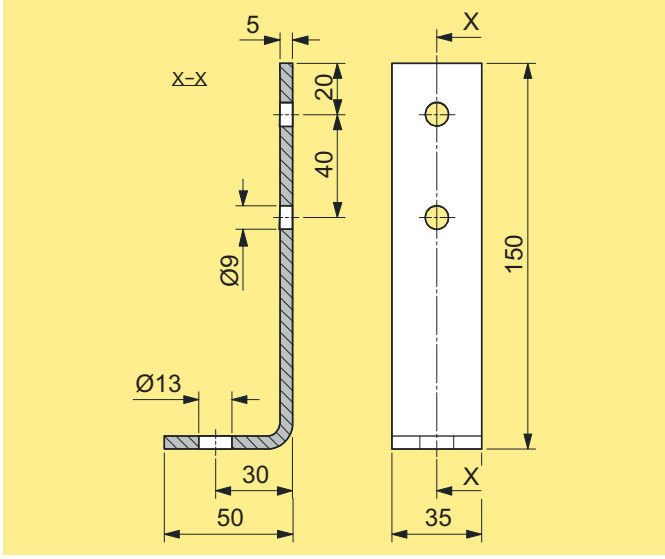
Steel, galvanised

Assembly

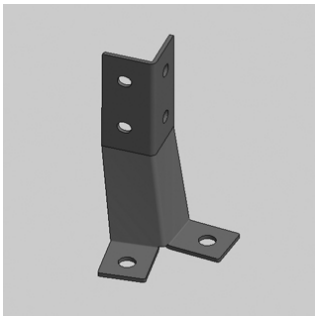


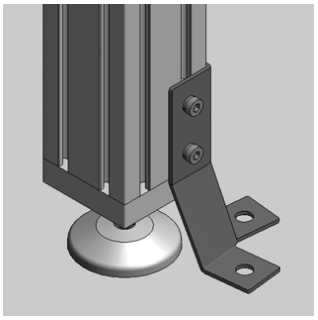
Part list	
A	Floor attachment bracket/ M8x16 socket head cap screw/ 8.4 washer/ M8 T-slot block
B	Anchor bolt

Dimensions



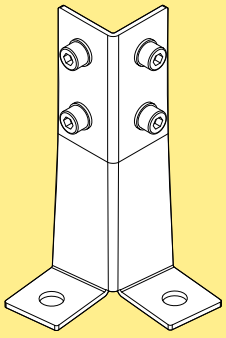
Floor attachment bracket





- Floor attachment bracket for fixing profiles to the floor.
- Suitable for high loads. The offset form absorbs flexural torque from several directions.
- Suitable for high vertical loads in conjunction with adjustable foot.
- Fixing material:
  - for mounting profile, included
  - for floor mounting, please order separately.

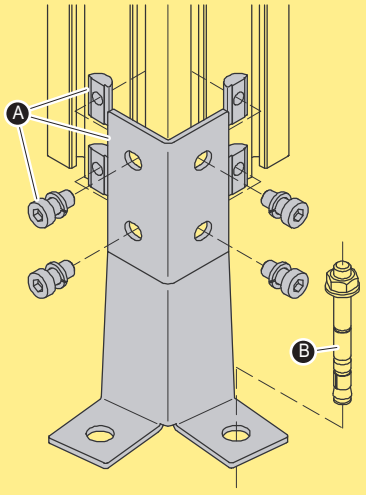
Floor attachment bracket, 60x152



Floor attachment bracket, 60x152 **TCFA 150 A**

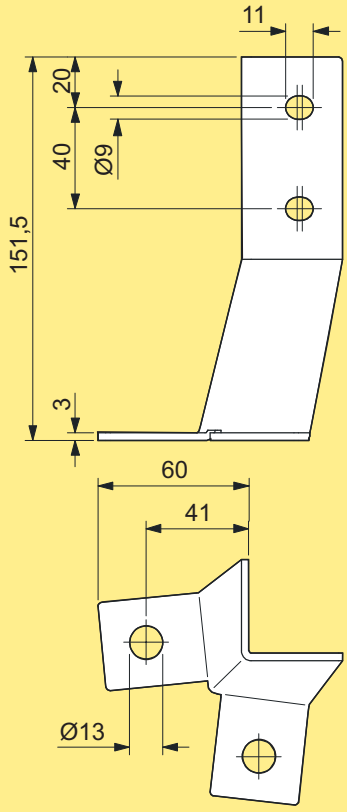
Steel, galvanised

Assembly



Part list	
A	Floor attachment bracket/ M8x12 socket head cap screw/ 8.4 washer/ M8 T-slot block
B	Anchor bolt

Dimensions



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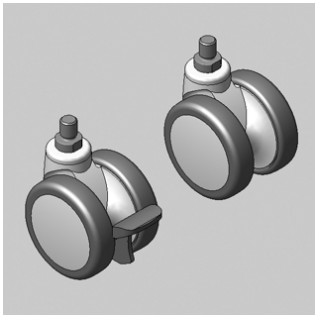
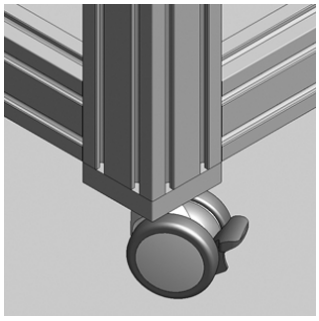
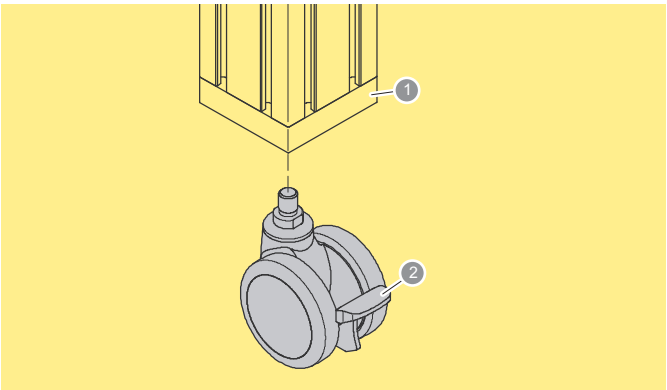




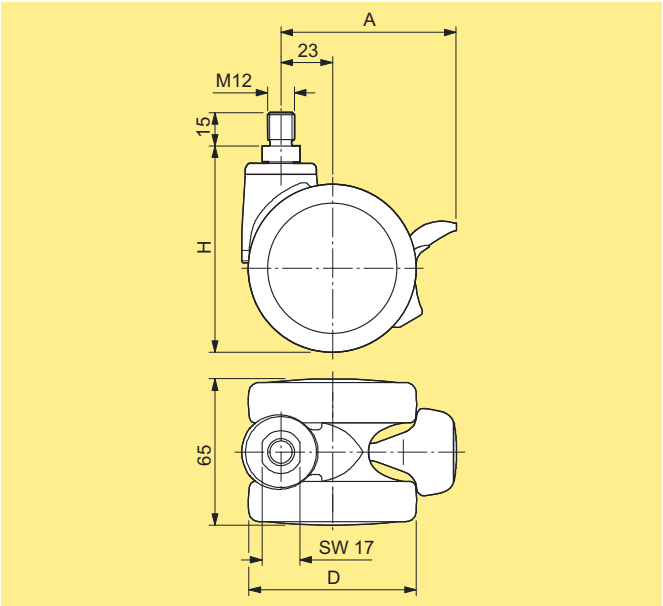
- Designed to match TC40 series profiles in shape and colour.
- Wear-resistant rollers with plain bearing.
- Swivel castor as central lock with brake for castor and axle.
- Cost-effective, fast assembly directly in the profile using screw channel or in combination with fixing plates.

Assembly

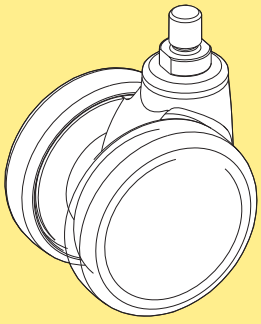


Part list	
1	Fixing plate
2	Lock

Dimensions

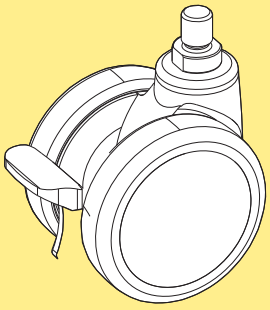


Castor, Plastic, grey



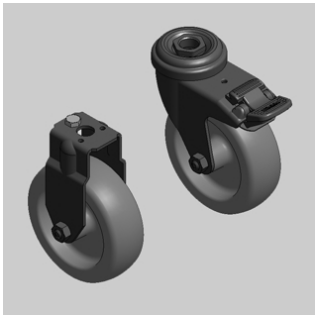
Castor, Plastic, grey **TCAG 75 AG**

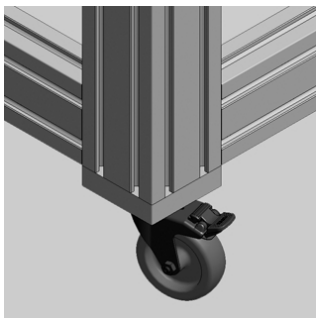
Castor with multistop brake, plastic grey



Castor, Plastic, grey with multi-stop brake **TCAG 75 BAG**

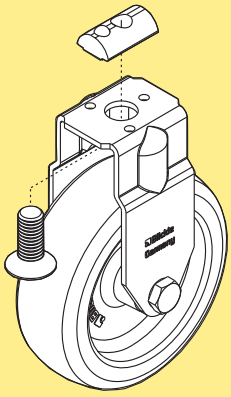
								Part. no		
		1	kN		D [mm]	H [mm]	A [mm]			
Swivel castor	No	No	0,7	M12	74,6	92,0	60,5	TCAG 75 AG	PA	Grey (similar to RAL 7004)
	No	Yes	0,7	M12	74,6	92,0	78,4	TCAG 75 BAG		
1) With/without lock										





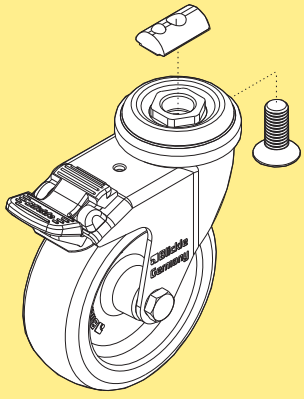
- Wear-resistant rollers with plain bearing.
- Swivel castor as central lock with brake for castor and axle.
- Mounting options:
  - mounting directly in profile end face using the M12 screw channel
  - in combination with M12 fixing plates (please order separately).
  - side mounting in profile slot with M8 T-slot nut
- Fork: Steel, galvanised.

Castor, 75 mm



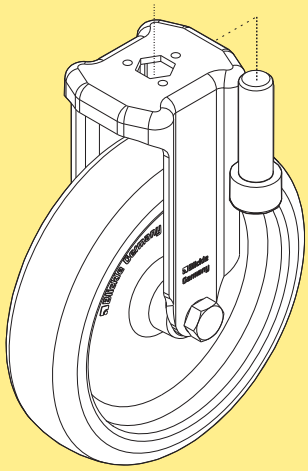
Castor **TCAG 75**

Castor with multistop brake, 75 mm



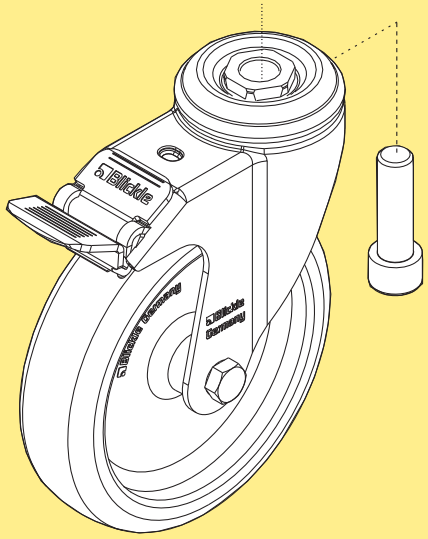
Castor with multistop brake, 75 mm **TCAG 75 BA**

Castor, 125 mm



Castor **TCAG 125**

Castor with multistop brake, 125 mm



Castor with multistop brake, 125 mm **TCAG 125 BA**

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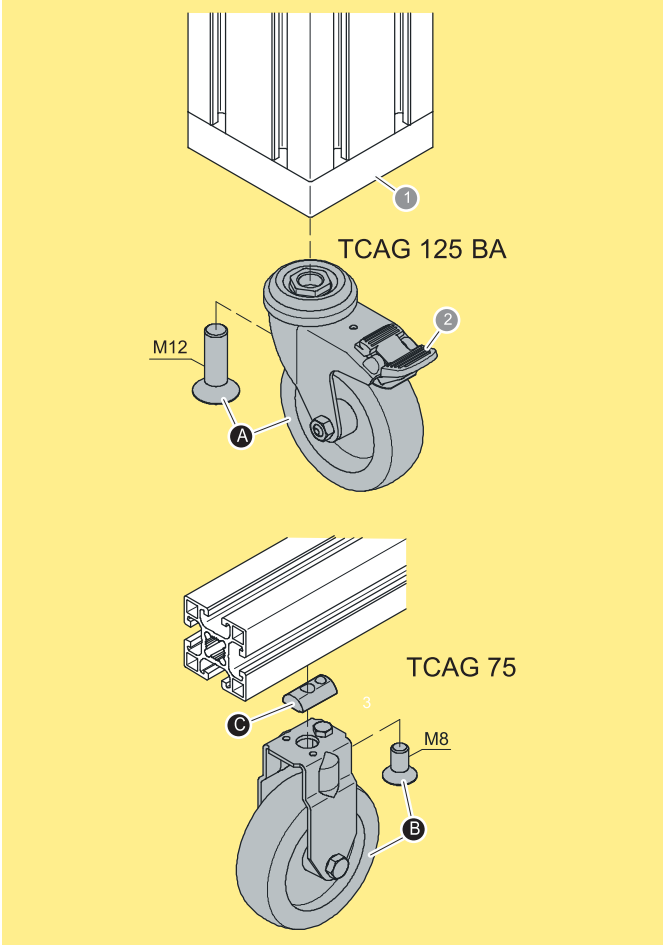
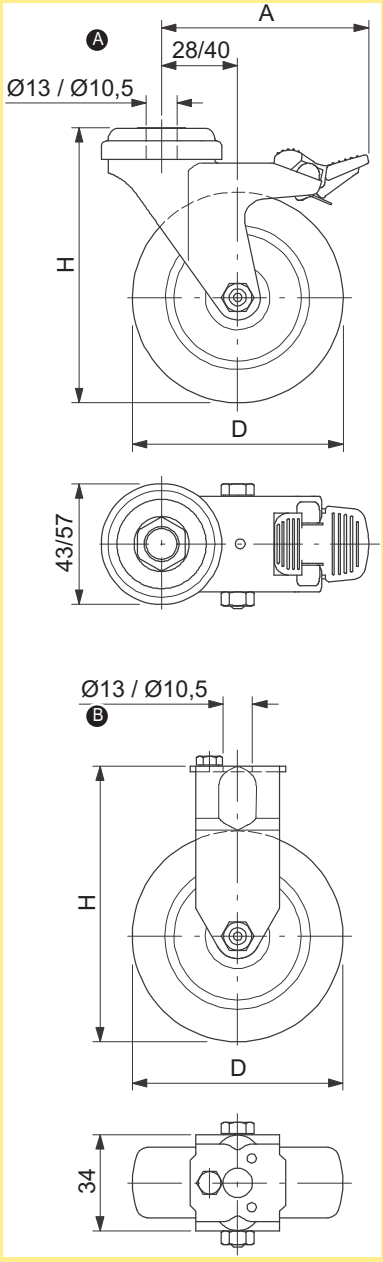
Assembly



Part list
A Swivel castor incl. M12/M8 countersunk-head screws
B Fixed castor, incl. M12/M8 countersunk-head screws
C Steel M8 T-slot block (included)
1 Fixing plate
2 Lock

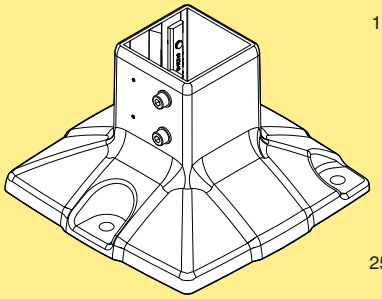
Dimensions

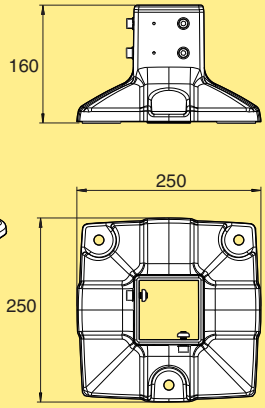


								Part. no		
		1	kN		D [mm]	H [mm]	A [mm]		2	2
Swivel castor	A	Yes	0,5	M8	75	98	74	TCAG 75 BA	PA	Grey
		Yes	1,0	M12	125	158	105	TCAG125 BA		
Fixed castor	B	No	0,5	M8	75	98	–	TCAG 75		
		No	1,0	M12	125	158	–	TCAG 125		
T-block	C							TCAN 8 M	Steel, galvanised	

1) With lock
2) Tyres: Material/colour

Foot, for 80x80 profiles





Foot, for 80x80 profiles

TCFF 80x250

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Fittings for doors, flaps and sliding elements

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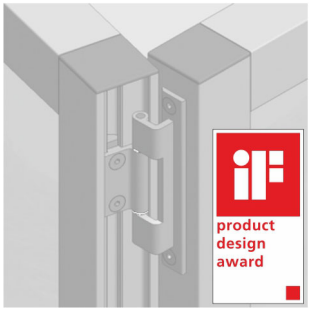
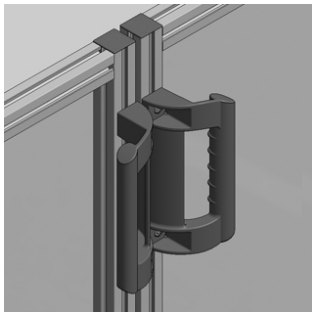
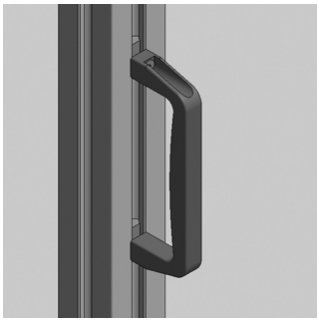


Hinges

- made of aluminum and plastic
- for loads of up to 90kg
- detachable or undetachable
- concealed hinge for exacting design demands

See Page 100 to Page 109

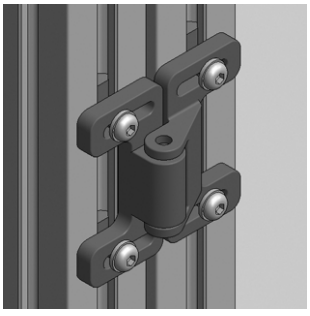


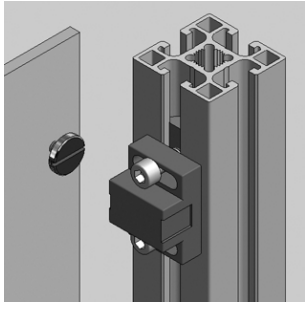


Handles

- made of aluminum, plastic
- various options for all opening styles

See Page 110 to Page 117

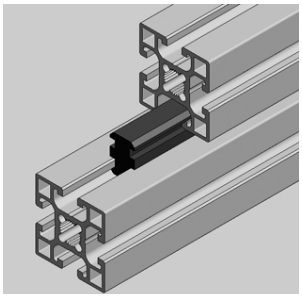


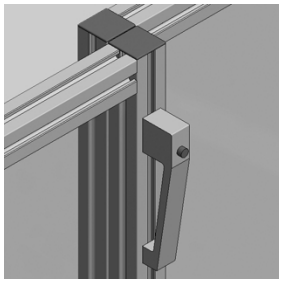


Locks for swing doors and flaps

- for locking the door when closed
- various locks and catches
- in plastic and steel

See Page 119 to Page 123





Fittings for sliding elements

- various sliding T-slot block profiles
- Guiding and supporting rollers
- Handles with locking function

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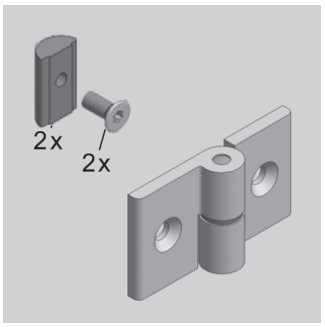
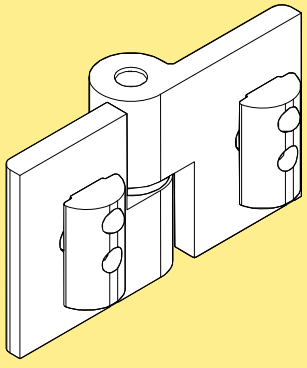
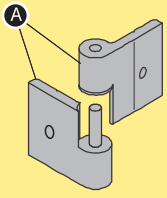
Hinge, AL 30



- For lightweight swing guard doors weighing up to 30kg.
- Stainless-steel pintles.
- Non-wearing plastic bushes for easy action.
- Detachable:
  - only use left or right-hand hinge version for detachable doors
  - use combination of left and right-hand version for fixed elements.
- Fixing material included.

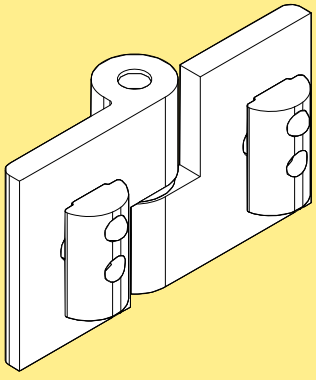
Hinge

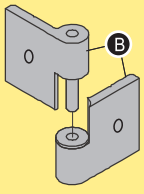




Hinge, right **TCAH 30 R**

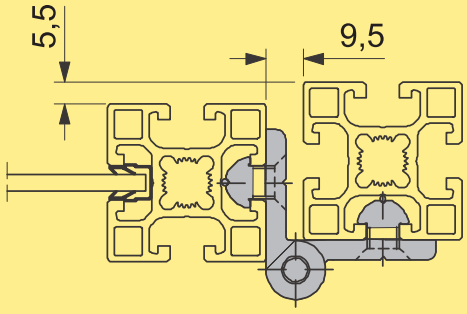
Hinge

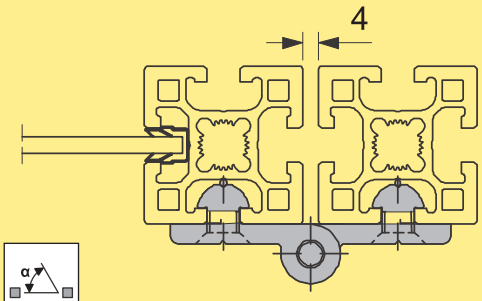


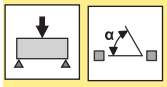


Hinge, left **TCAH 30 L**

Gap widths

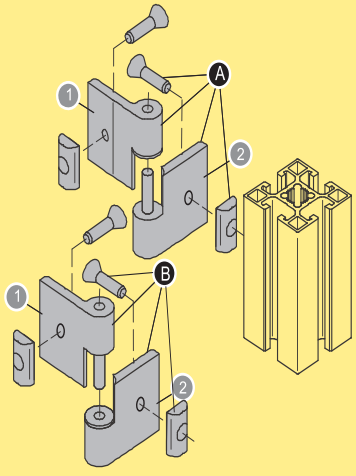






30 kg 180°

Assembly



A	Hinge LS/ M6x12 countersunk-head screw/ M6 T-slot nut
B	Hinge RS/ M6x12 countersunk-head screw/ M6 T-slot nut
1	Top part of hinge
2	Bottom part of hinge

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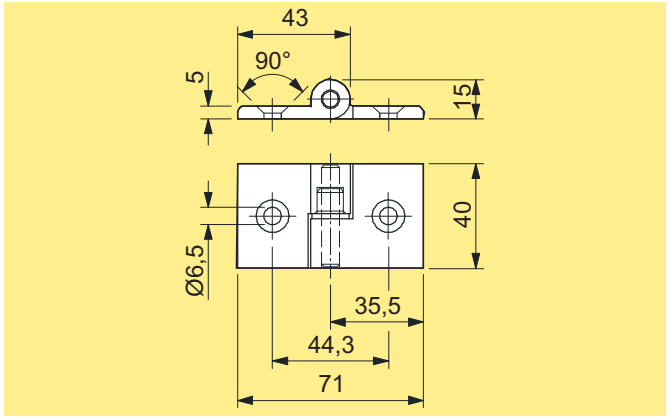
Dimensions

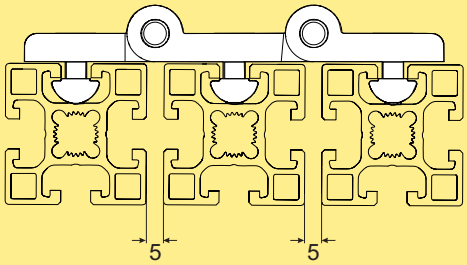


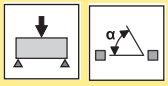
		Part number		
Hinge incl. fixing material	A	TCAH 30 R	Aluminum	Anodised finish
	B	TCAH 30 L		

Hinge, Double hinge, AL 30

- For lightweight swing guard doors weighing up to 30kg.
- Stainless-steel pintles.
- Fixing material included.

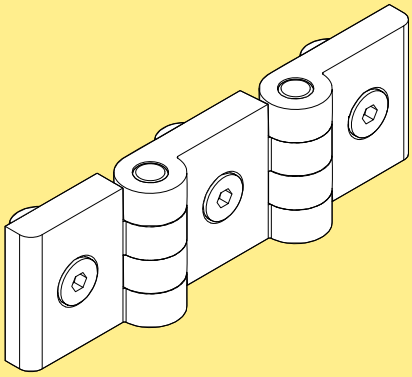
Gap widths





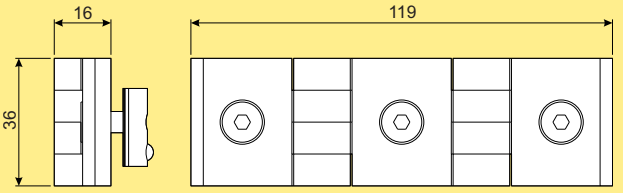
30 kg 180°

Hinge, grey or black



Hinge, grey	**TCAH 30 DPG**
Hinge, black	**TCAH 30 DPB**

Dimensions



		Part number		
Hinge incl. fixing material	A	TCAH 30 DPG	Plastic	Grey
	B	TCAH 30 DPB		Black

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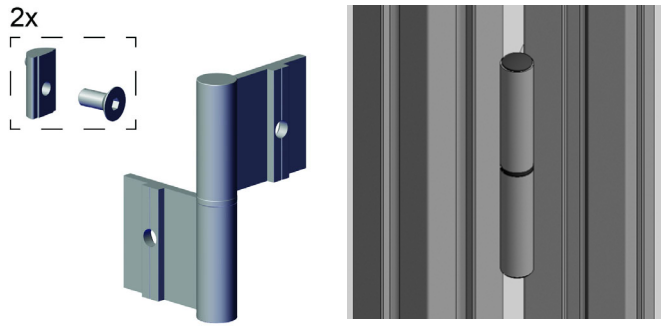
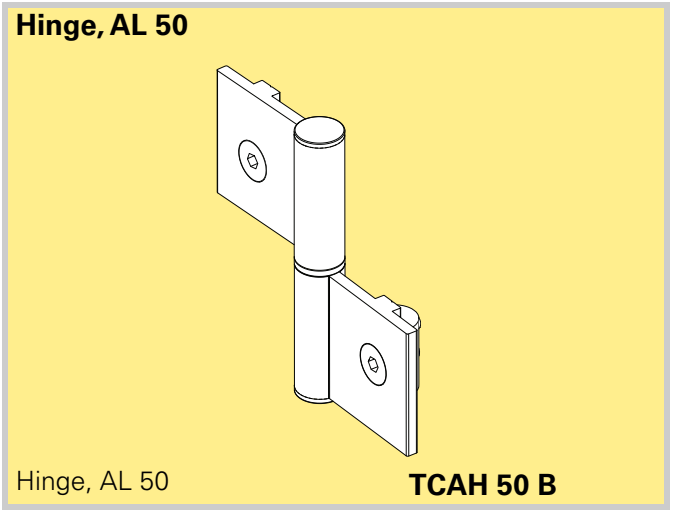
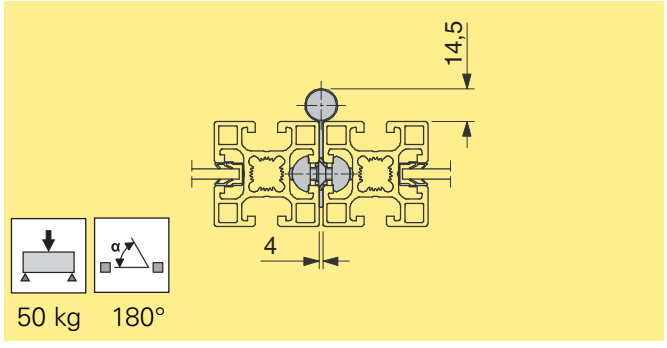
Hinge, AL 50



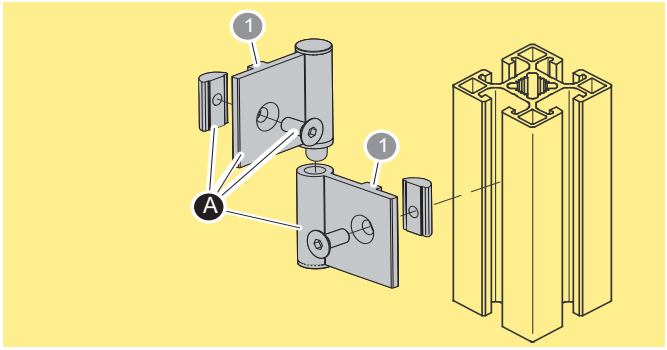
- Hinge for minimal gap widths.
- For profile-framed guard doors weighing up to 50kg.
- Detachable.
- Non-wearing plastic pintle with collar can be changed over between hinge components- permitting right and left-hand mounting options.
- Fixing material included.



Gap widths

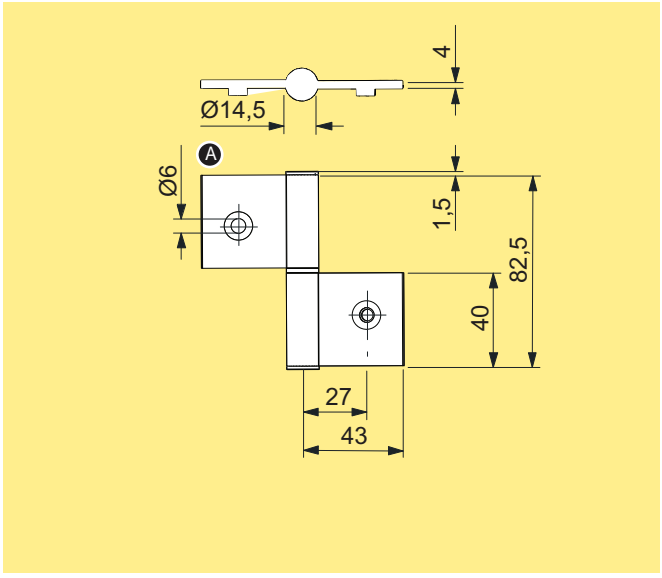


Assembly



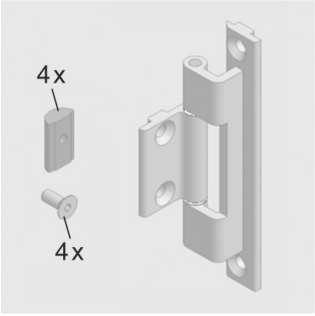
Part list	
A	Hinge/ M6x14 DIN 7991 / long M6 T-slot nut
1	Anti-rotation element

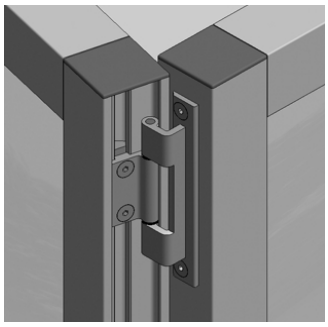
Dimensions



			Part number		
Hinge incl. fixing material	A	Yes	TCAH 50 B	Aluminum	Anodised finish

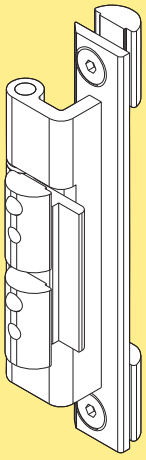
Hinge, AL 75, concealed





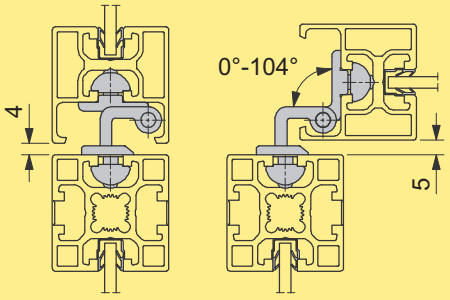
- Concealed hinge for guard doors and flaps weighing up to 75kg.
- Only for use with door-leaf profile (Part number TCBS LX40 MC).
- Pintle in stainless steel.
- Non-wearing plastic bushes for easy action.
- Fixing material included.

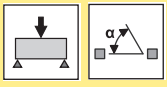
Hinge, AL 75, Concealed



Hinge, AL 75, Concealed **TCAH 75 H**

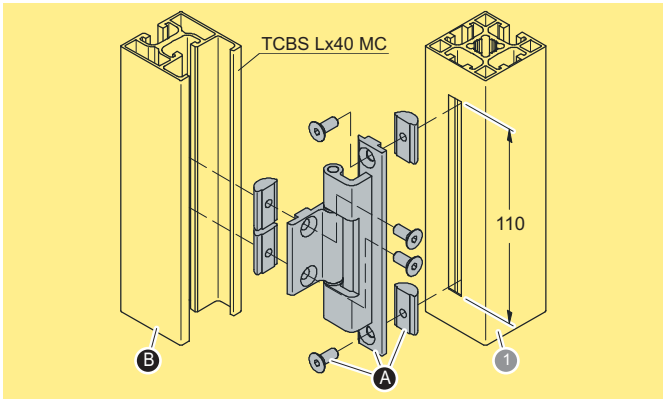
Gap widths





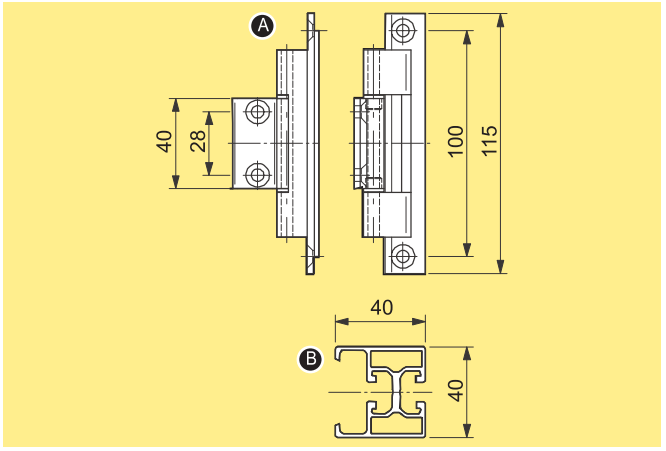
75 kg 104°

Assembly



Part list	
A	Hinge/ M5x12 countersunk-head screw/ M5 steel T-slot nut
B	40x40 PF door-leaf profile
1	Upright

Dimensions



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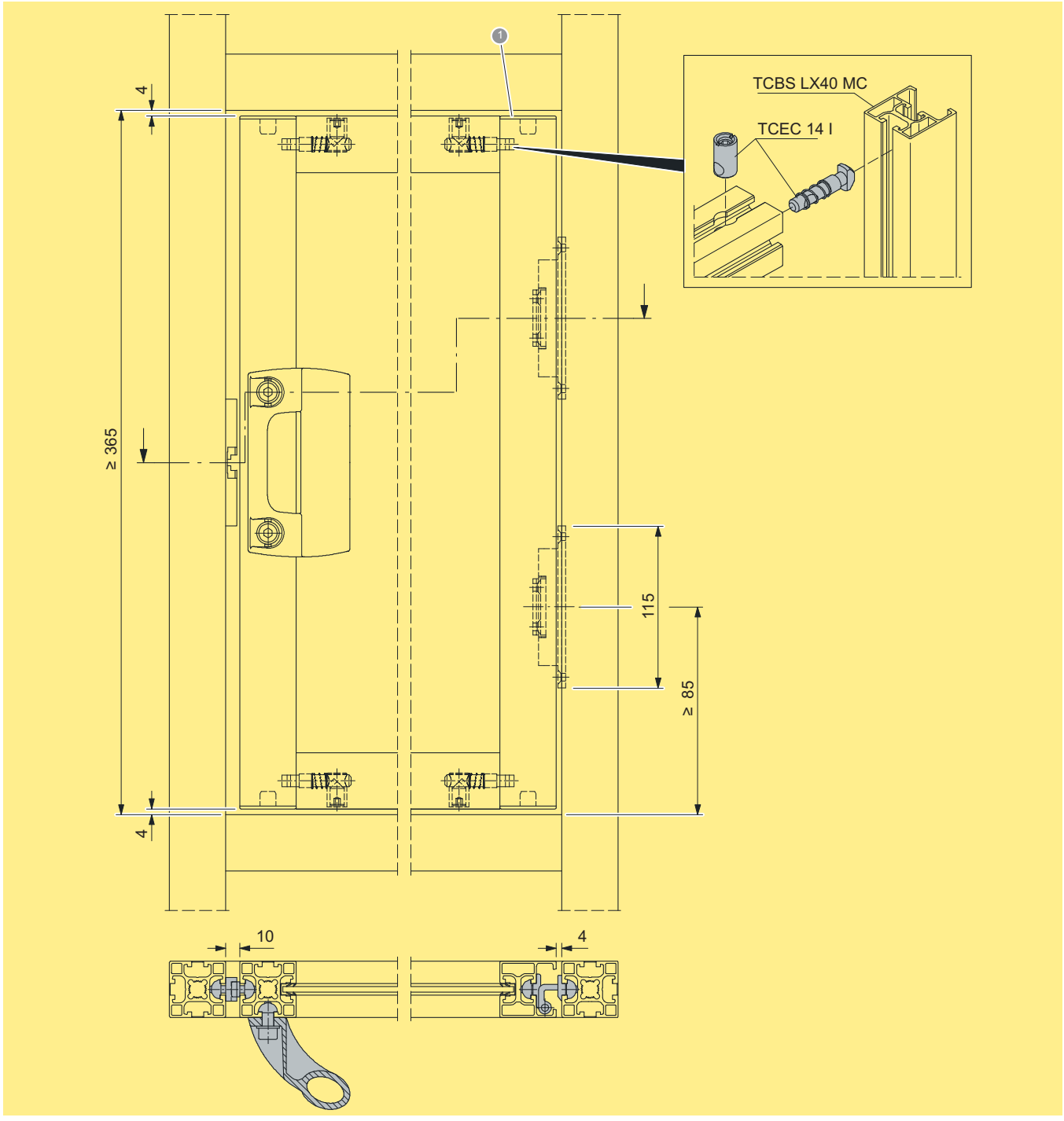
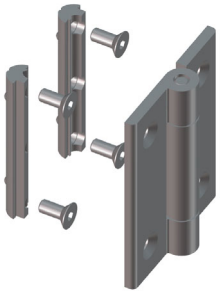
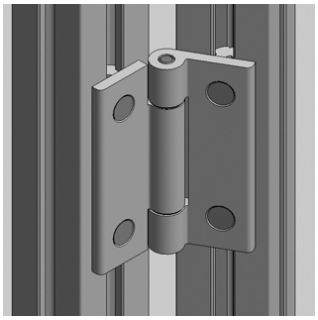
			Part number		
Hinge incl. fixing material	A	Yes	TCAH 75 H	Aluminum	Anodised finish
TC40 40X40 MC	B		TCBS LX40 MC	Aluminum	

Fitting example



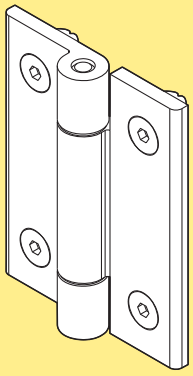
Hinge, AL 90





- For large swing guard doors weighing up to 90kg.
- Stainless-steel pintles.
- Non-wearing plastic bushes for easy action.
- Fixing material included.

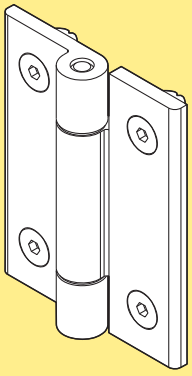
Hinge, AL 90, centring both sides



Hinge, AL 90, centring both sides

TCAH 90 A

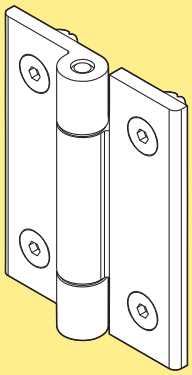
Hinge, AL 90, without centring



Hinge, AL 90, without centring

TCAH 90 B

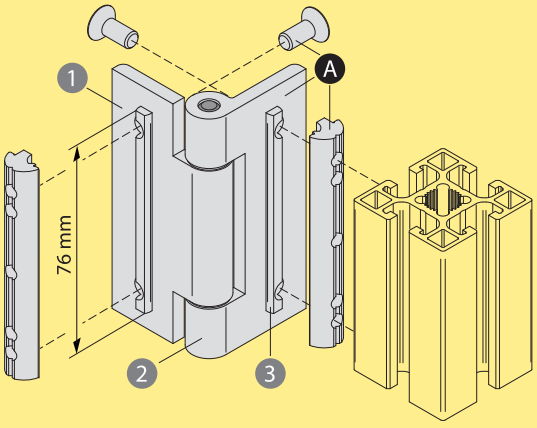
Hinge, AL 90, centring outer part

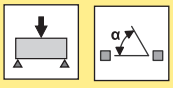


Hinge, AL 90, centring outer part

TCAH 90 C

Assembly





90 KG 180°

Part list	
A	Hinge/ M6x14 screw/ long M6 T-slot nut
1	Inner hinge section
2	Outer hinge section
3	Anti-rotation element

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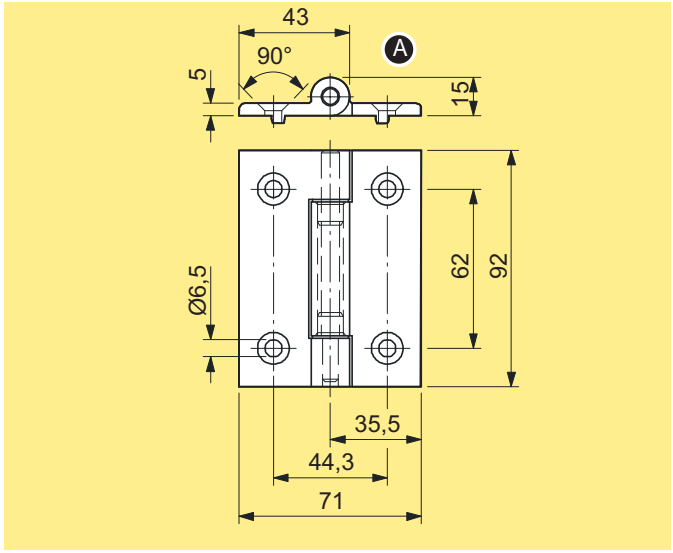
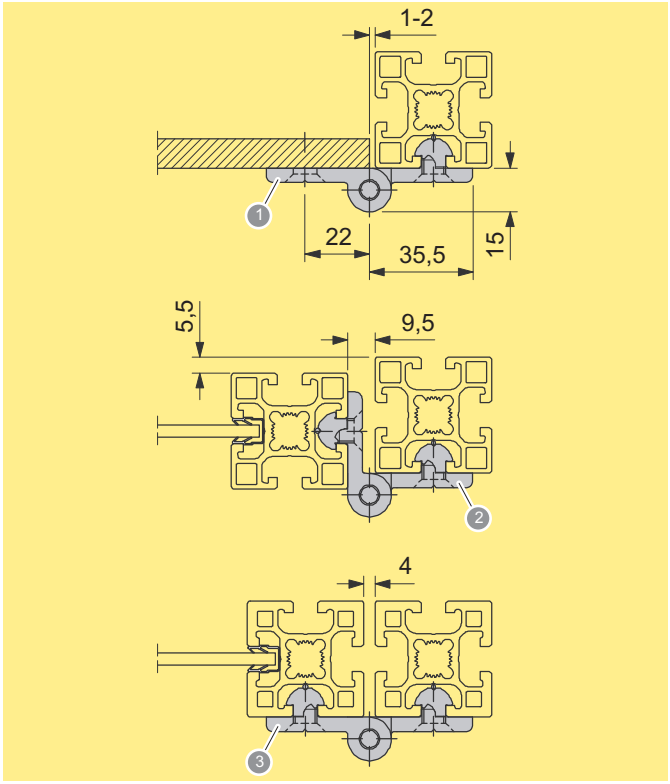
Dimensions



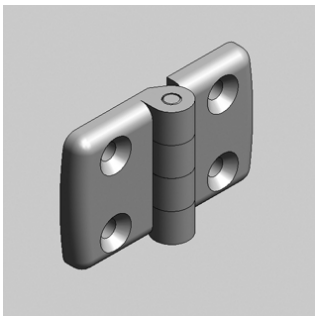
Fittings example



1	Anti-rotation element on one side
2	Anti-rotation element on both sides, hinge parts modified
3	Anti-rotation element on both sides

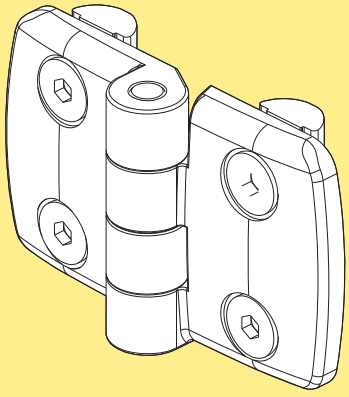
			Part number		
Hinge incl. fixing material	A	1	TCAH 90 A	Aluminum	Anodised finish
		2	TCAH 90 B		
		3	TCAH 90 C		
1) With centring capability					
2) Without centring capability					
3) Centring in external hinge section only					

Hinge, plastic 50



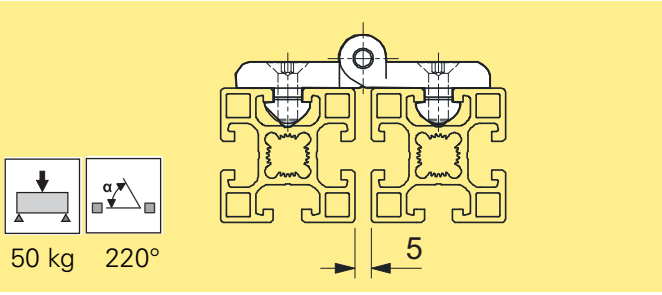
- For light to medium-sized swing doors weighing up to 50kg.
- Not detachable.
- Fixing material included.

Hinge, P50, grey or black

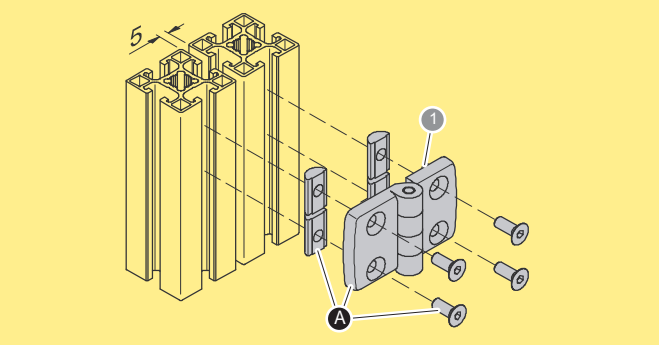


Hinge, P50, grey	**TCAH 50 PG**
Hinge, P50, black	**TCAH 50 PB**

Gap widths

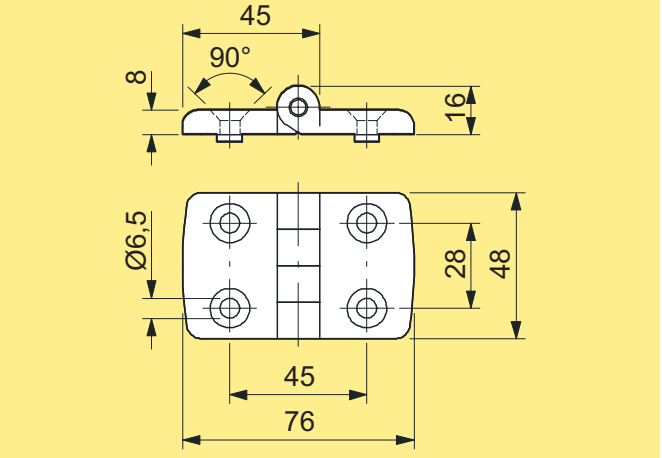


Assembly



Part list	
A	M6x18 countersunk-head screw/ M6 steel T-slot nut
1	Anti-rotation element

Dimensions



			Part number		
Hinge incl. fixing material	A	Yes	TCAH 50 PG	PA-GF	Silver grey (similar to RAL 7001)
			TCAH 50 PB		Black (similar to RAL 9005)

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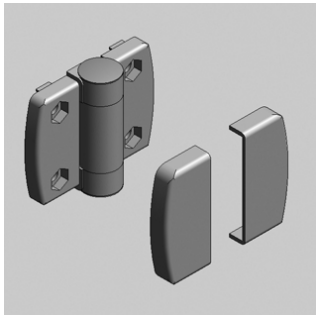
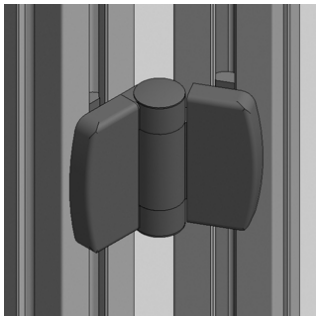
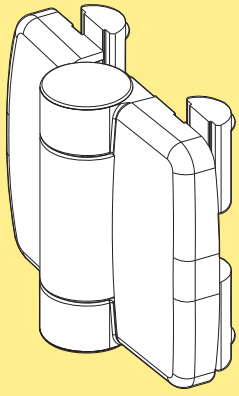
Hinge, plastic 50, with cover cap





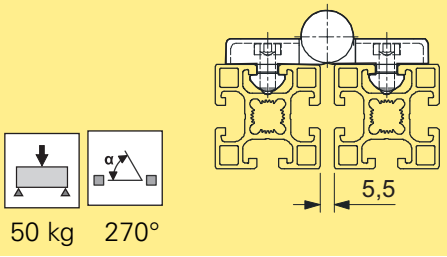
- For light to medium-sized swing doors weighing up to 50kg.
- With cover caps.
- Optionally available with stop function at angles of 85° to 175° or adjustable friction (special order).
- Fixing material included

Hinge, P 50 closed, grey or black

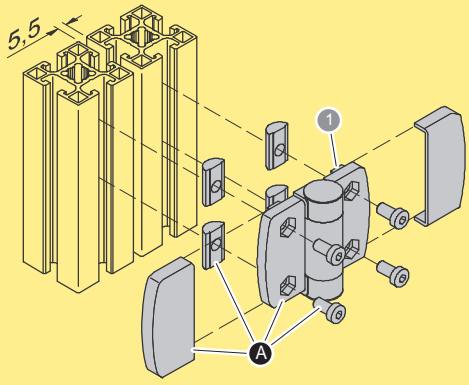


Hinge, P 50 closed, grey	**TCAH 50 CPG**
Hinge, P 50 closed, black	**TCAH 50 CPB**

Gap widths

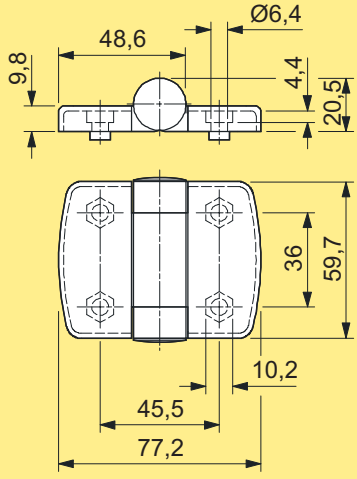


Assembly



Part list	
A	Hinge with cover cap/ M6x14 socket head cap screw/ M6 steel T-slot nut
1	Anti-rotation element

Dimensions

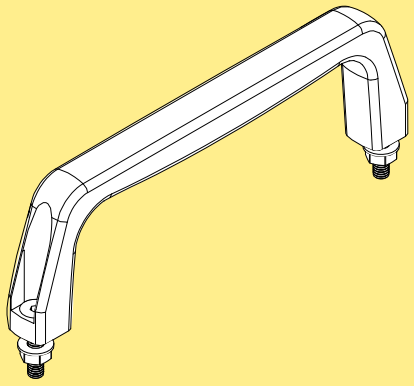


			Part number		
Hinge incl. fixing material	A	Yes	TCAH 50 CPG	PA-GF	Silver grey (similar to RAL 7001)
			TCAH 50 CPB		Black (similar to RAL 9005)

Handle, plastic 130

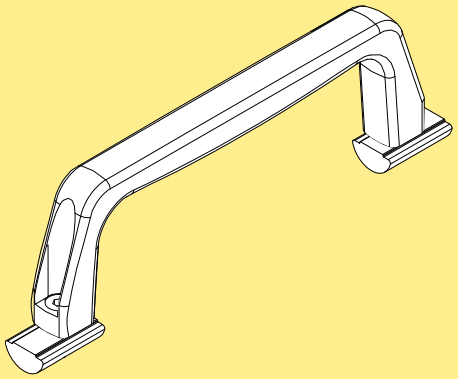
- Simple handle for lightweight guard doors and flaps.
- Fixing material included.

Handle, L=130, grey or black



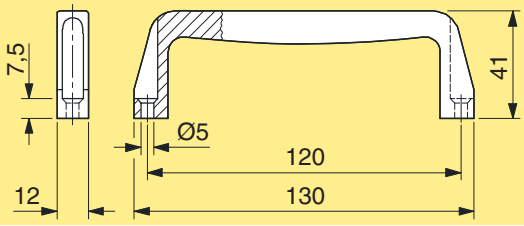
Handle, L=130, grey	**TCEH 130 AG**
Handle, L=130, black	**TCEH 130 AB**

Handle, L=130, grey or black



Handle, L=130, grey	**TCEH 130 BG**
Handle, L=130, grey	**TCEH 130 BB**

Dimensions



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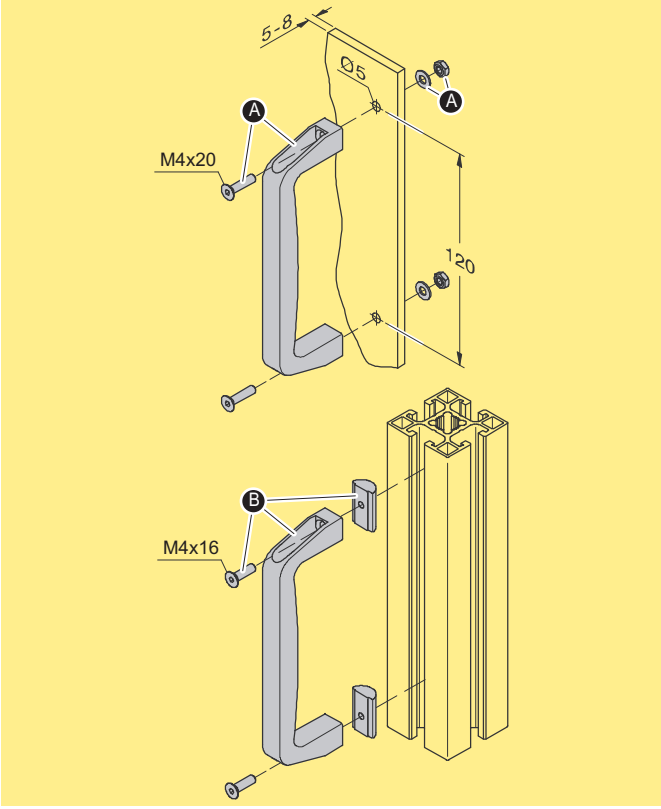
Assembly



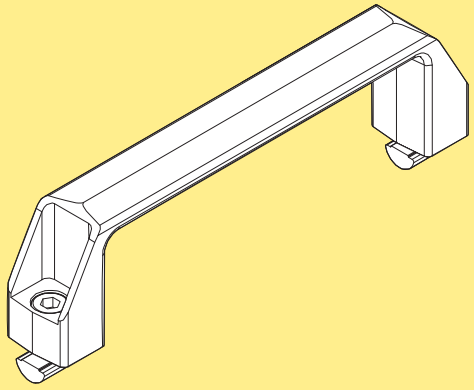
Part list	
A	Handle/ M4x20 countersunk-head screw/ 4.3 washer/ M4 hexagon nut
B	Handle/ M4x16 countersunk-head screw/ M4 steel T-slot nut

		Part number		
Handle, inc.fixing material for 5-8 mm panel elements	A	TCEH 130 AG	PA-GF	Silver grey (similar to RAL 7001)
		TCEH 130 AB		Black (similar to RAL 9005)
Handle including fixing material for profile mounting	B	TCEH 130 BG		Silver grey (similar to RAL 7001)
		TCEH 130 BB		Black (similar to RAL 9005)

Handle, plastic 200

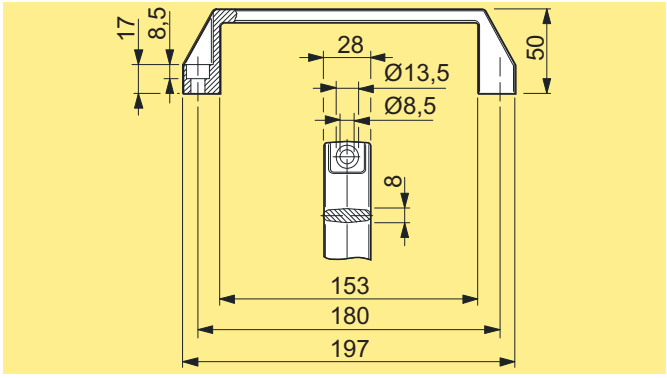
- Simple handle for lightweight guard doors and flaps.
- Fixing material included.

Handle, L=200, black

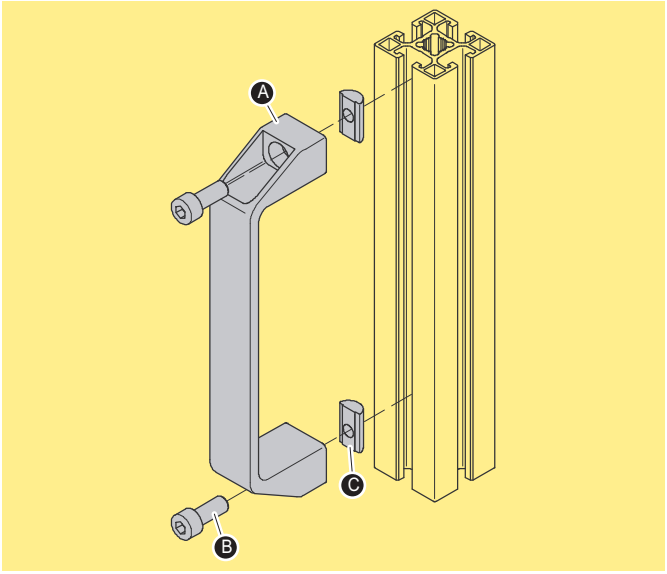


Handle, L=200, black **TCEH 200 B**

Dimensions



Assembly



Part list	
A	Handle
B	M8x20 socket head cap screw
C	Steel M8 T-slot nut

		Part number		
Handle incl. fixing material	A B C	TCEH 200 B	PA-GF	Black

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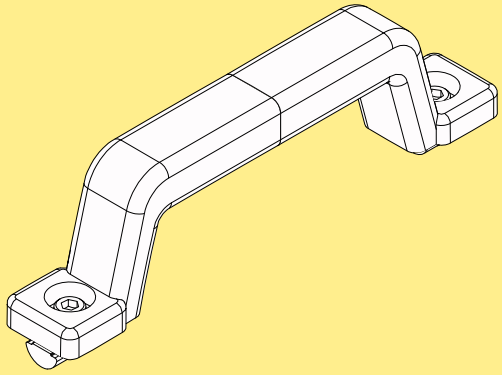
Handle, plastic 190 ST

- D-handle for lightweight guard doors and flaps.
- Integrated steel inlay for high stability.
- Fixing material included.

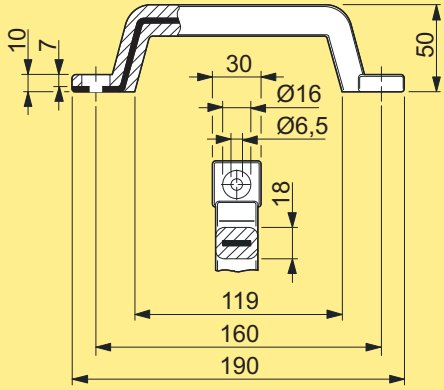
Handle, steel reinforcement, black



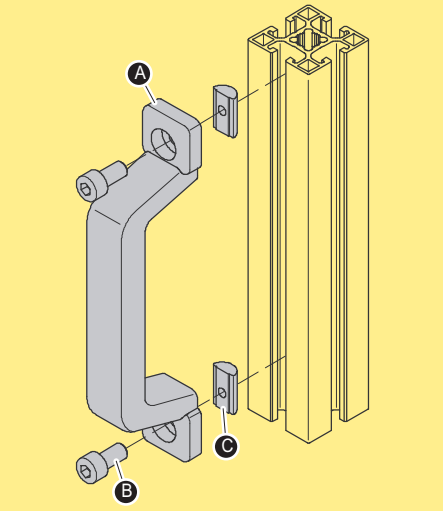
Handle, steel reinforcement, black

TCEH 190 B

Dimensions



Assembly



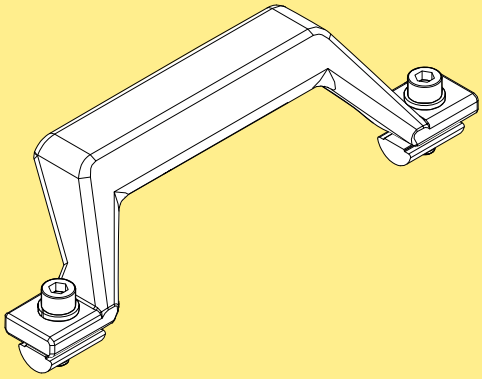
Part list	
A	Handle
B	M6x14 socket head cap screw
C	Steel M6 T-slot nut

		Part number		
Handle incl. fixing material	A B C	TCEH 190 B	PU, Steel reinforced	Black

Handle, AL 175

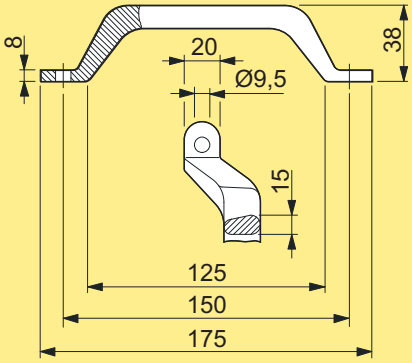
- Sturdy D-handle for guard doors and flaps.
- Fixing material included.

Handle, L=175, aluminum

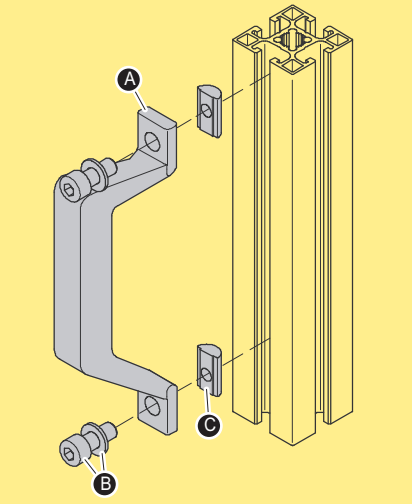


Handle, L=175, aluminum **TCEH 175**

Dimensions



Assembly



Part list	
A	Handle
B	M8x20 socket head cap screw/ washer
C	Steel M8 T-slot nut

		Part number		
Handle incl. fixing material	A B C	TCEH 175	Aluminum	Anodised finish

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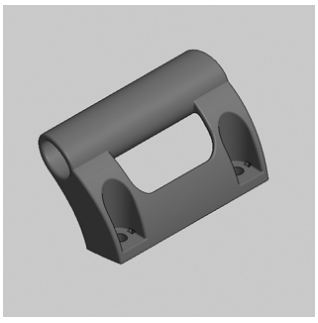
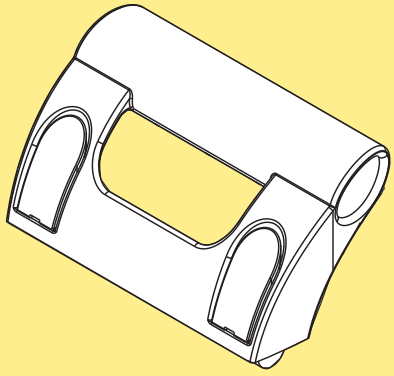
Handle, plastic 135



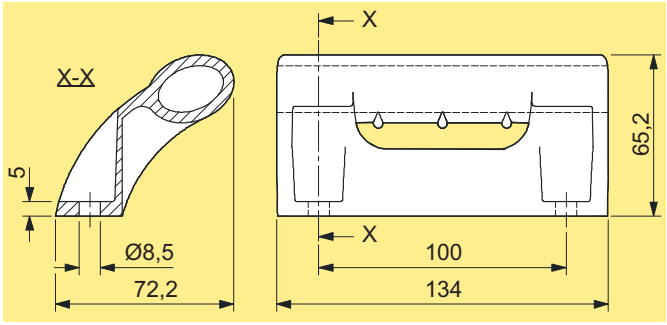
- Ergonomically shaped handle for doors and flaps in machine claddings.
- Fixing material included.

Handle, L=135, grey or black

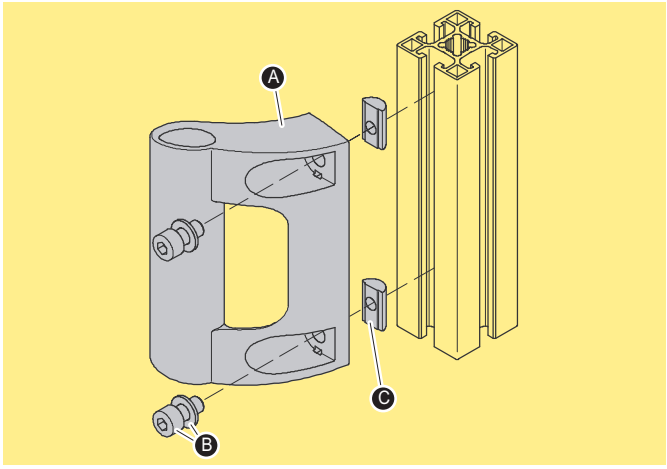


Handle, L=135, grey	**TCEH 135 G**
Handle, L=135, black	**TCEH 135 B**

Dimensions



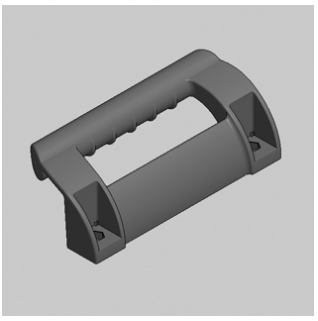
Assembly

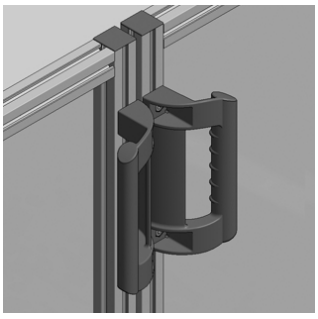


Part list	
A	Handle
B	M8x16 socket head cap screw/ washer
C	Steel M8 T-slot nut

		Part number		
Handle incl. fixing material	A B C	TCEH 135 G	PA-GF	Silver grey (similar to RAL 7001)
		TCEH 135 B		Black (similar to RAL 9005)

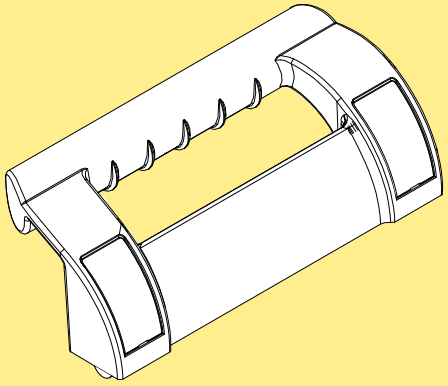
Handle, plastic 240





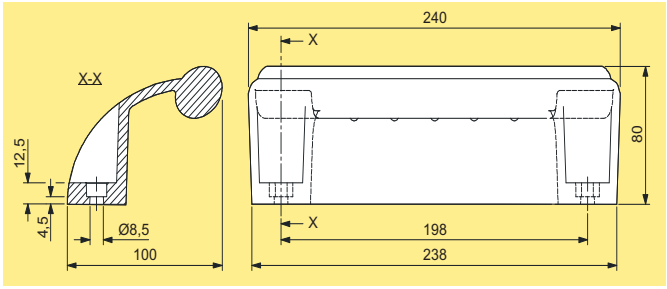
- Ergonomically shaped handle for heavy doors and flaps in machine claddings.
- Fixing material included.

Handle, L=240, grey or black

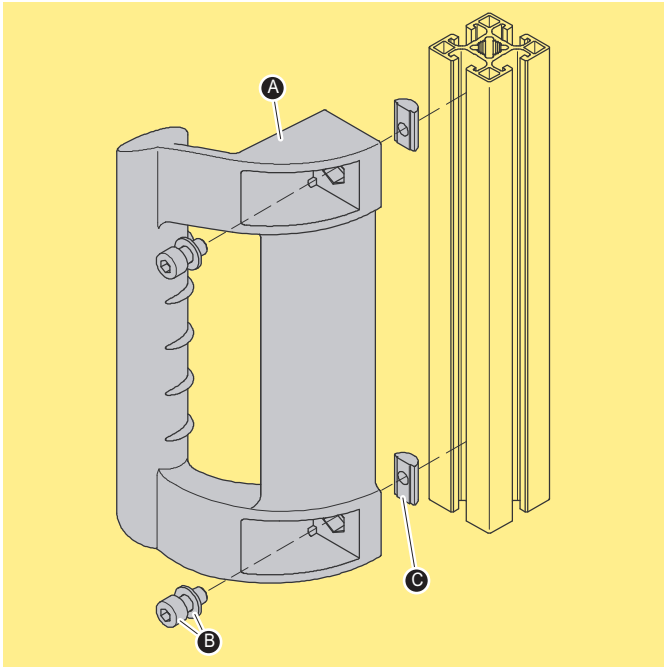


Handle, L=240, grey	**TCEH 240 G**
Handle, L=240, black	**TCEH 240 B**

Dimensions



Assembly



Part list	
A	Handle
B	M8x16 socket head cap screw/ washer
C	Steel M8 T-slot nut

		Part number		
Handle incl. fixing material	A B C	TCEH 240 G	PA-GF	Silver grey (similar to RAL 7001)
		TCEH 240 B		Black (similar to RAL 9005)

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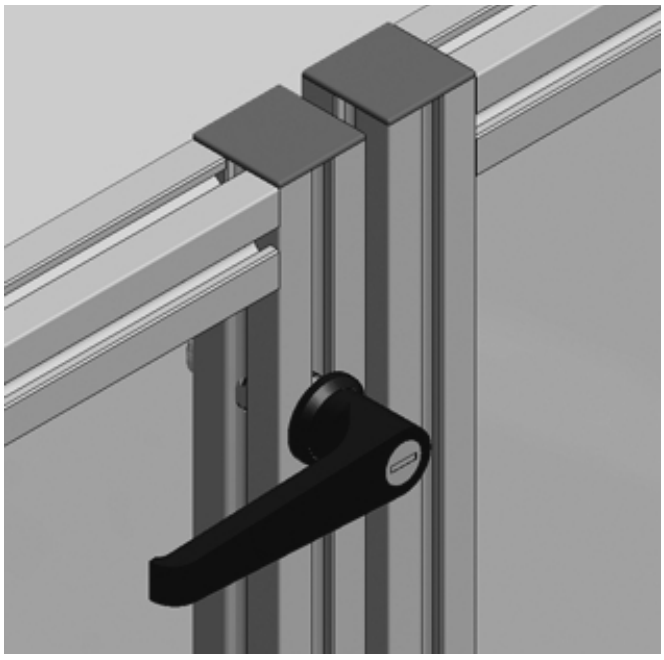
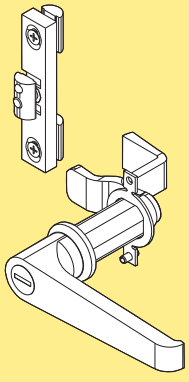
Lockable handle



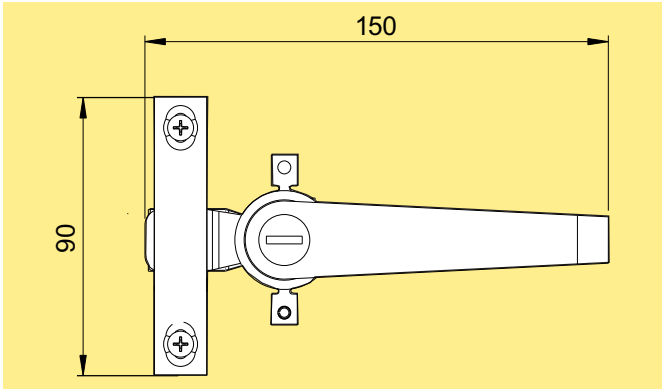
- Turn handle with locking function for profile-framed swing doors.
- Door catch holds the door closed even without locking it.
- Suitable for profile depths of 40 and 80 mm as a result of exchangeable latch (4/5).
- Security lock barrel, supplied with two keys.
- Rear-mounted metal plate serves as anti-rotation element (1).

Handle, keyed alike or keyed differently

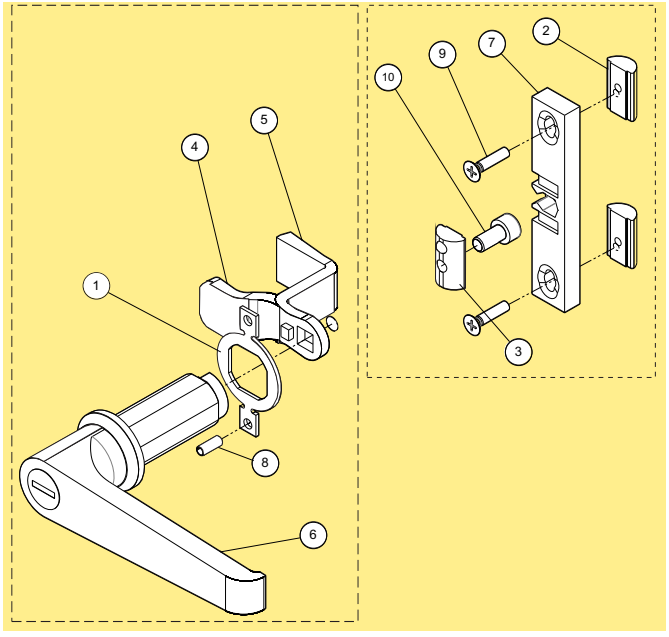


Handle, keyed alike	**TCEL 105 A**
Handle, keyed differently	**TCEL 105 B**

Dimensions

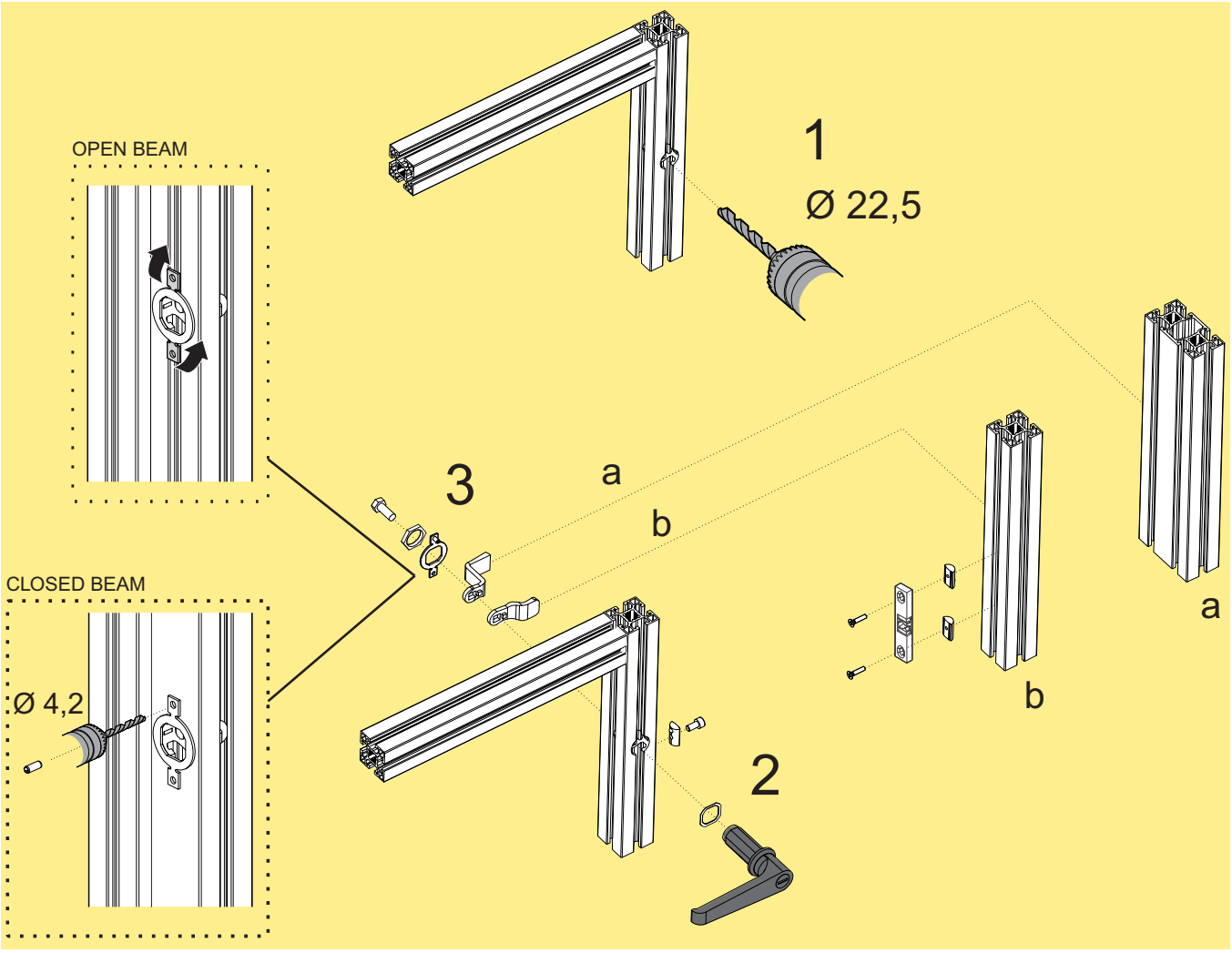


Assembly



Item	Description	Part no	Qty
1	Plate	(5124485)*	1
2	T-slot nut	(5123603)*	2
3	T-slot nut	(5123609)*	1
4	Latch	(5124492)*	1
5	Latch	(5124495)*	1
6	Handle	(5124517)*	1
7	Latch	(5124339)*	1
8	Pin	(5124513)*	1
9	Screw	(5124346)*	2
10	Hexagon socket head cap screw	(5046714)*	1
		* Included	

Mounting instruction



			Part number		
Lockable handle incl. fixing material	1 | 10	Keyed alike	TCEL 105 A	misc.	Black
		Keyed differently	TCEL 105 B		

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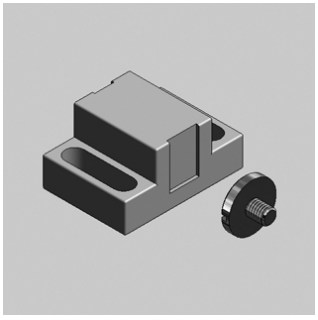
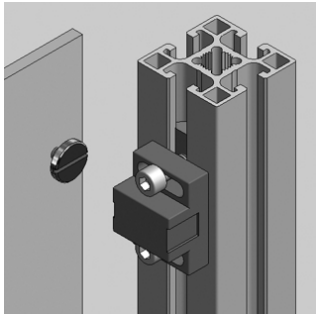
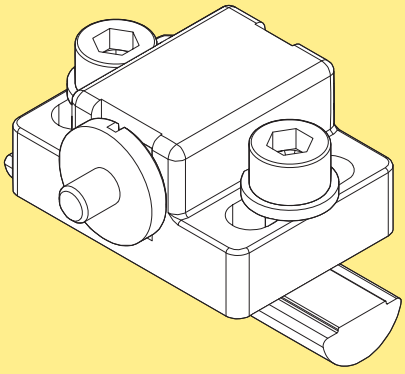
Magnetic catch





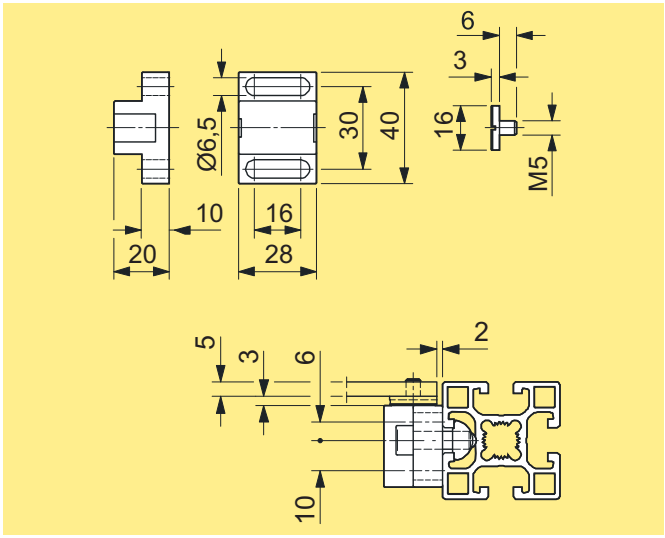
- For frameless, swing doors made of panel material.
- Elongated holes permit adjustment to panel element thickness.
- Fixing material included.

Magnetic catch, grey or black

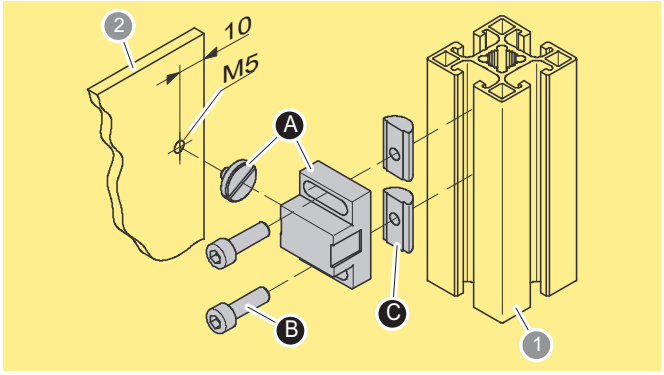


Magnetic catch, grey	**TCEL 40 MG**
Magnetic catch, black	**TCEL 40 MB**

Dimensions



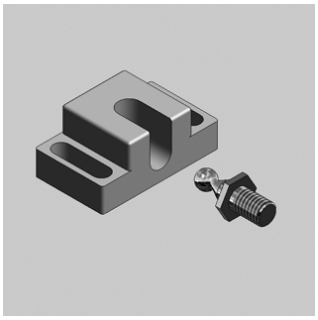
Assembly

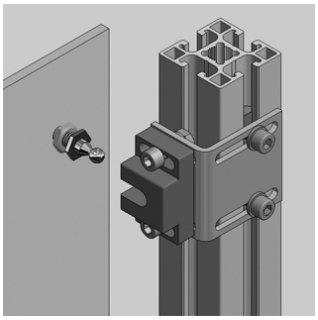


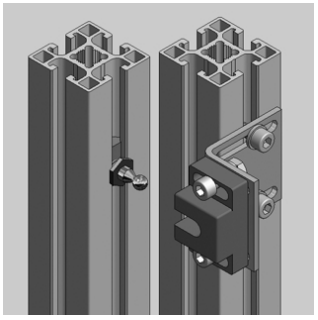
Part list	
A	Magnetic catch
B	M6x20 socket head cap screw
C	Steel M6 T-slot nut
1	Upright
2	Door leaf

		Part number		
Magnetic catch incl. fixing material	A B C	TCEL 40 MG	PA-GF	Silver grey (similar to RAL 7001)
		TCEL 40 MB		Black (similar to RAL 9005)

Ball catch, plastic

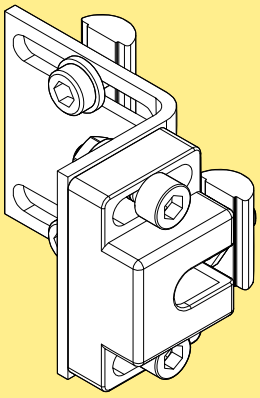






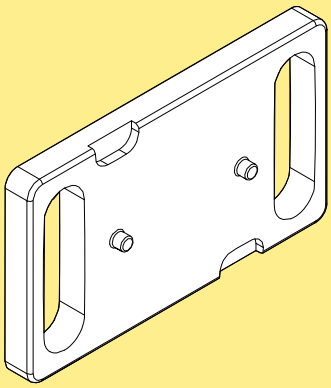
- For doors and flaps:
  - made of panel material (frameless)
  - with profile frame Elongated holes permit exact alignment.
- Fixing material included.

Ball latch lock kit, grey or black



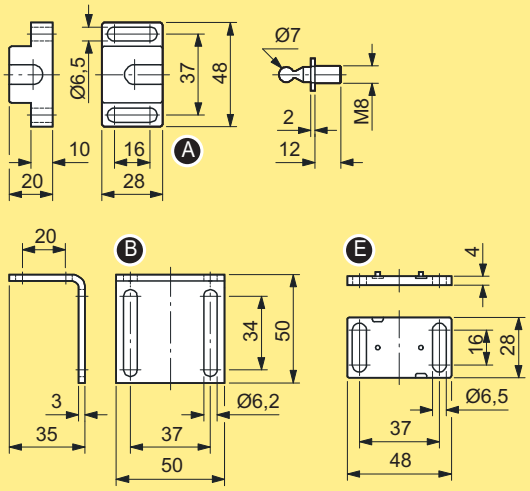
Ball latch lock kit, grey	**TCEL 48 BG**
Ball latch lock kit, black	**TCEL 48 BB**

Spacer, for ball latch lock, 4 mm, grey or black



Spacer, for ball latch lock, 4 mm, grey	**TCLS 4 G**
Spacer, for ball latch lock, 4 mm, black	**TCLS 4 B**

Dimensions



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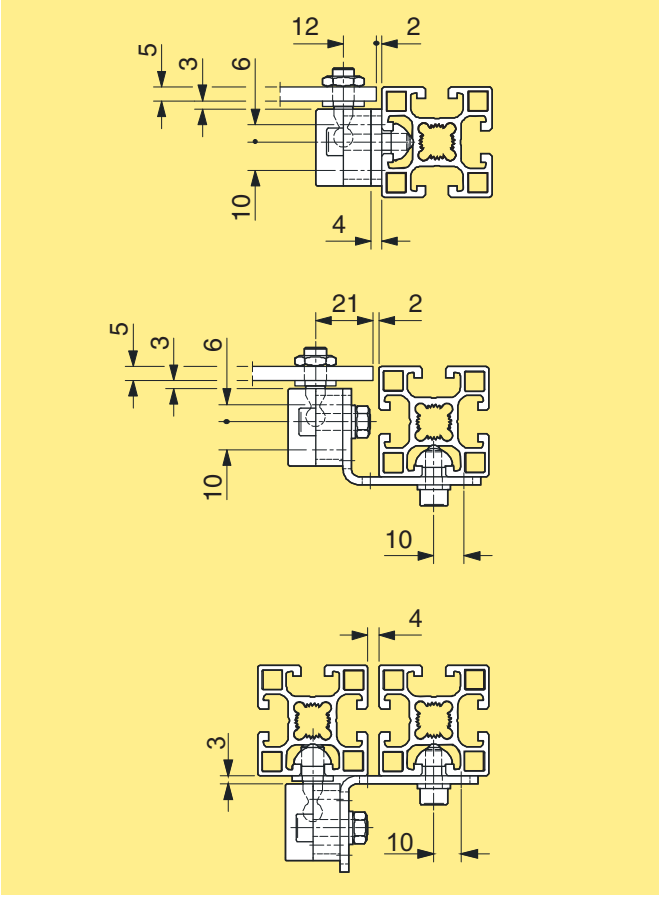
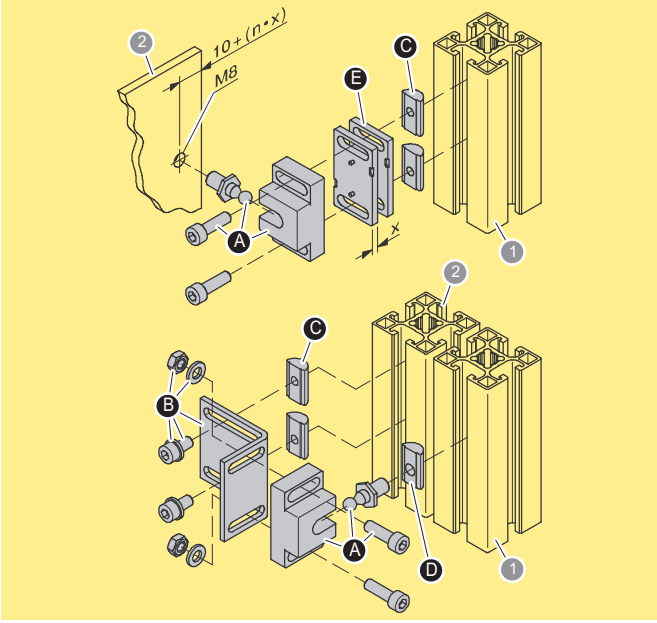
Gap widths



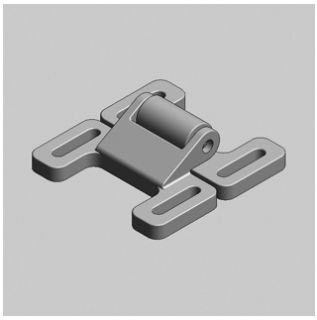
Assembly

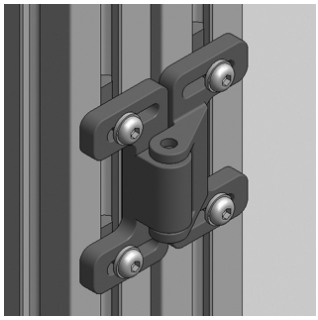


Part list	
A	Ball catch/ M6x20 screw
B	Fixing bracket/ M6x14 screw/ 6.4 washer/ M6 hexagon nut
C	Steel M6 T-slot nut
D	Steel M8 T-slot nut
E	Spacer plate
1	Upright
2	Door leaf

		Part number		
Ball catch incl. fixing material	A | D	TCEL 48 BG	PA-GF	Silver grey (similar to RAL 7001)
		TCEL 48 BB		Black (similar to RAL 9005)
Spacer plate, 4mm	E	TCLS 4 G	PA-GF	Silver grey (similar to RAL 7001)
		TCLS 4 B		Black (similar to RAL 9005)

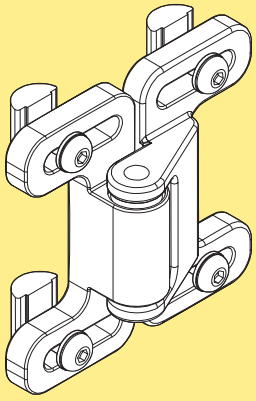
Double ball catch, plastic





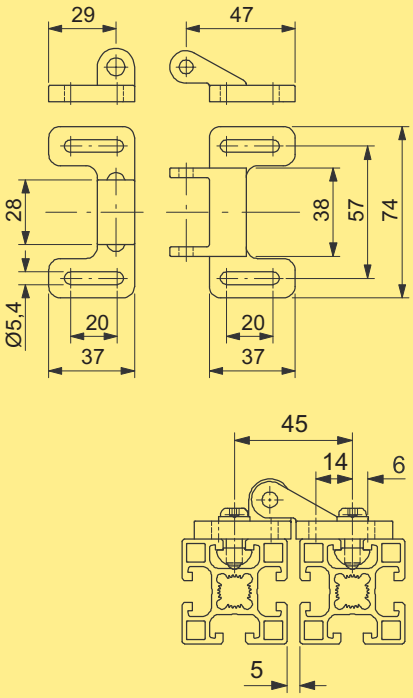
- For doors and flaps with profile frame.
- Elongated holes permit exact alignment.
- Includes fixing material for mounting to open profiles.

Ball latch lock kit, grey or black

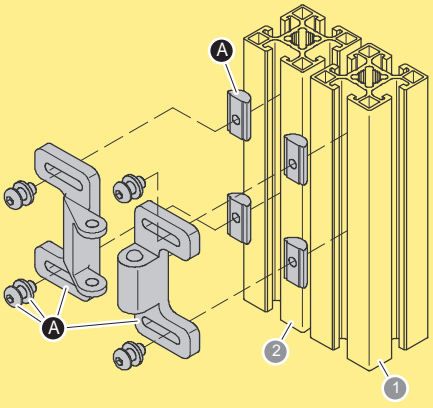


Ball latch lock kit, grey	**TCEL 74 G**
Ball latch lock kit, black	**TCEL 74 B**

Dimensions



Assembly



Part list	
A	Double ball catch/ M5x16 screw/ 5.3 washer/ steel M5 T-slot nut
1	Upright
2	Door leaf

		Part number		
Double ball catch incl. fixing material	A	TCEL 74 G	PA-GF	Silver grey (similar to RAL 7001)
		TCEL 74 B		Black (similar to RAL 9005)

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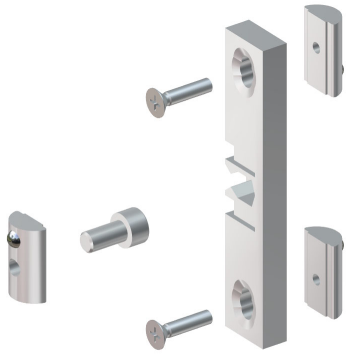
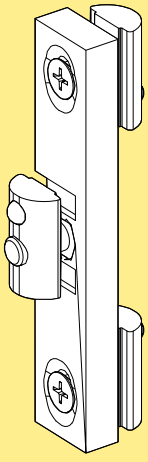
Door catch



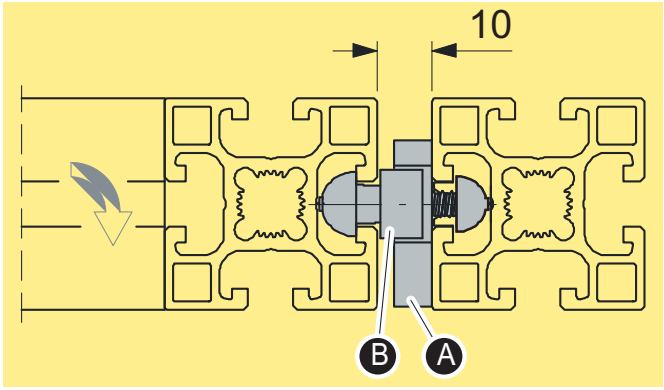
- For doors and flaps with profile frame.
- Spring-tensioned catch claws permit levelling up to ±5mm.
- Fixing material included.

Door catch

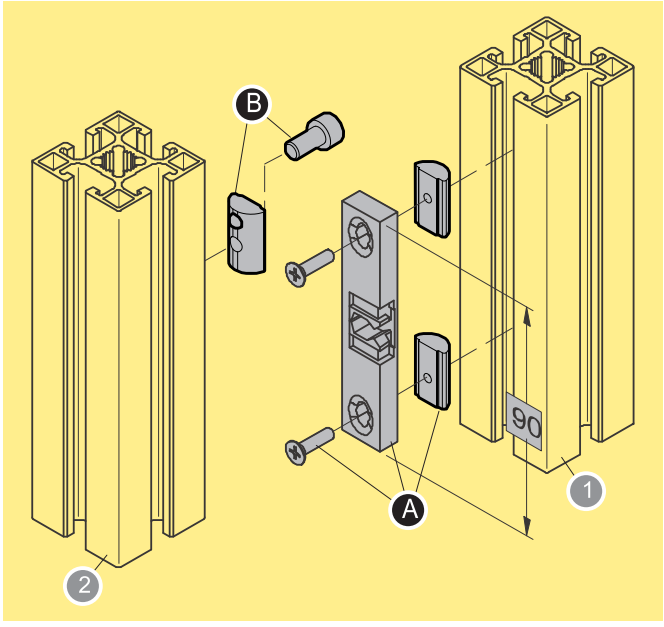


Door catch **TCEL 90**

Dimensions



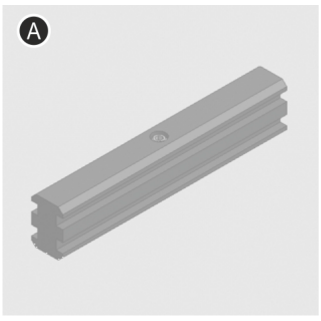
Assembly

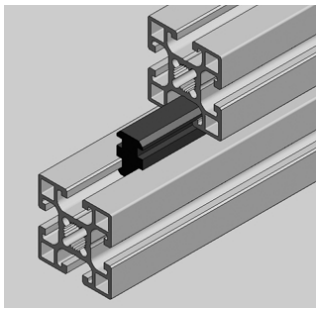


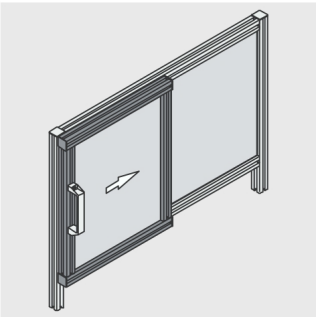
Part list	
A	Door catch/ M4x18 countersunk-head screw/ M4 T-slot nut
B	M6x12 socket head cap screw/ M6 T-slot nut
1	Upright
2	Door leaf

		Part number		
Door catch incl. fixing material	A B	TCEL 90	die-cast zinc	Natural

Sliding T-slot block for profile-framed sliding elements

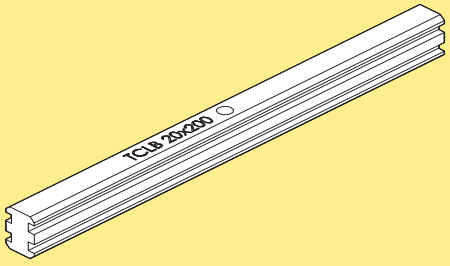






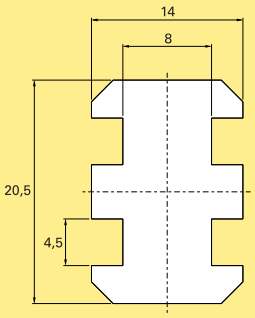
- Sliding T-slot block for linear guiding actions.
- Ready-assembled sliding T-slot block with grub screw (galvanised steel) from profile TCLB 2A.
- Profiles for in-house manufacture in versions:
  - with/without offset
  - with 1 or 2 undercuts.
- Sliding T-slot block with 1 undercut for off-centre load application or for evening out major tolerances.

Sliding element for T-slot, L=200



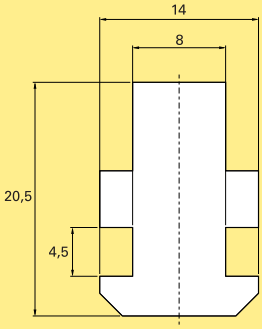
Sliding element for T-slot, L=200 **TCLB 20x200**

Sliding profile, Two undercuts, no offset



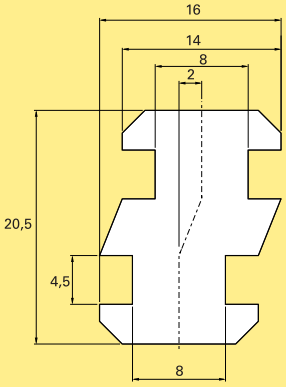
Sliding profile, Two undercuts, no offset
Length 2 m **TCLB 2 A**

Sliding profile, One undercut, no offset



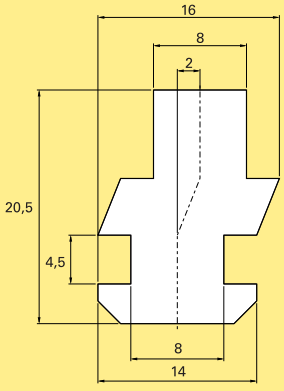
Sliding profile, One undercut, no offset
Length 2 m **TCLB 2 B**

Sliding profile, Two undercut, offset



Screw channel profile
Length 2 m **TCLB 2 C**

Sliding profile, One undercut, offset



Sliding profile, One undercut, offset
Length 2 m **TCLB 2 D**

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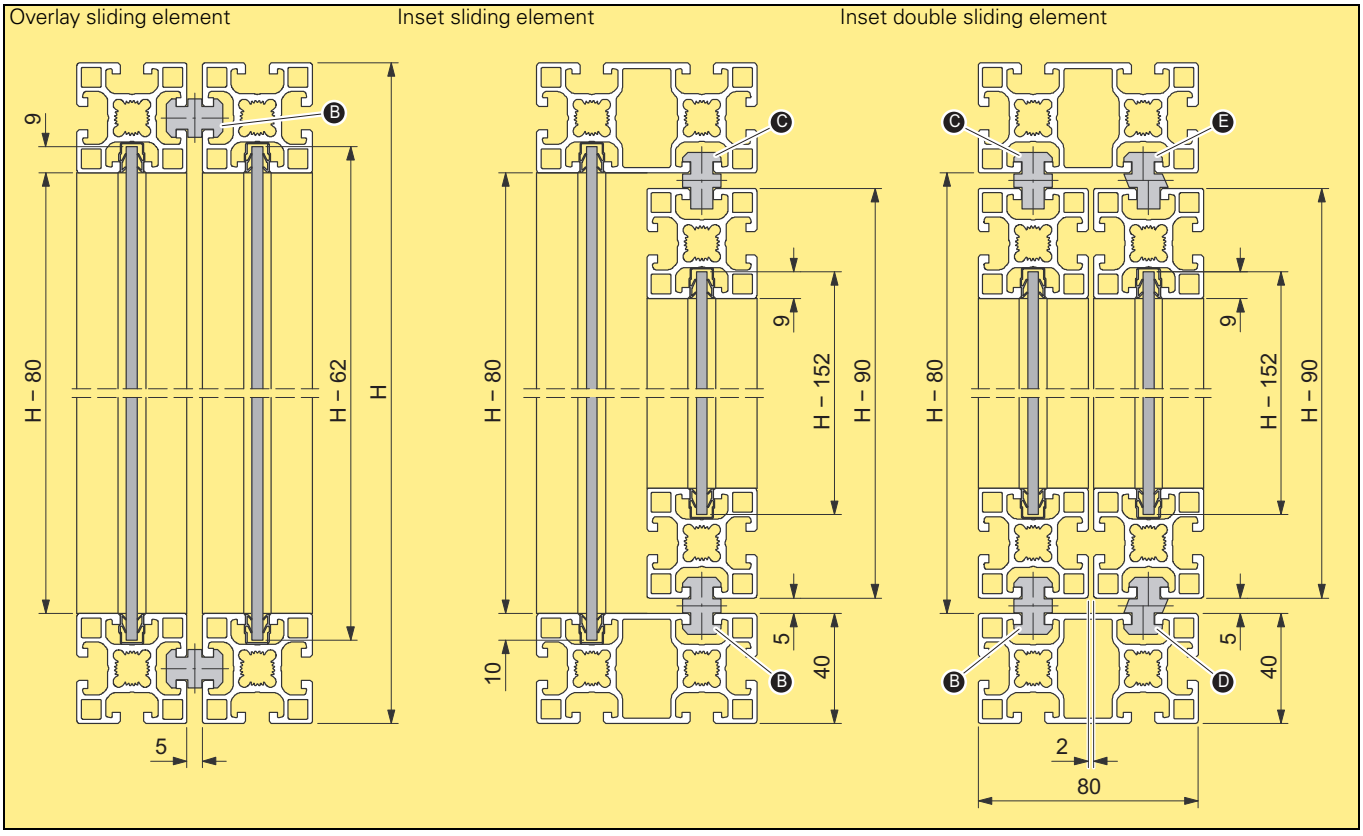
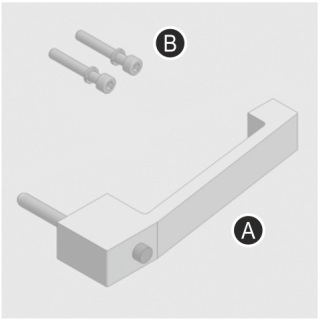
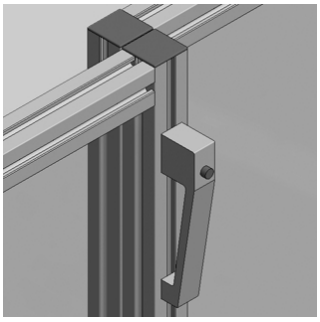
Fitting example



		Part number		
Sliding T-slot block, 200mm	A	TCLB 20x200	PA 6	Black
Sliding T-slot block profile	B	TCLB 2 A	PA 6	Black
	C	TCLB 2 B		
	D	TCLB 2 C		
	E	TLCB 2 D		

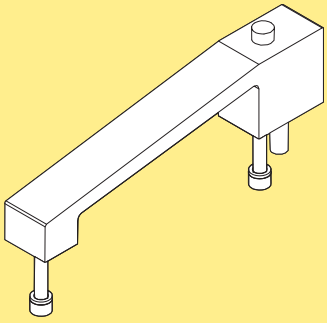
Locking handle for profile-framed sliding elements





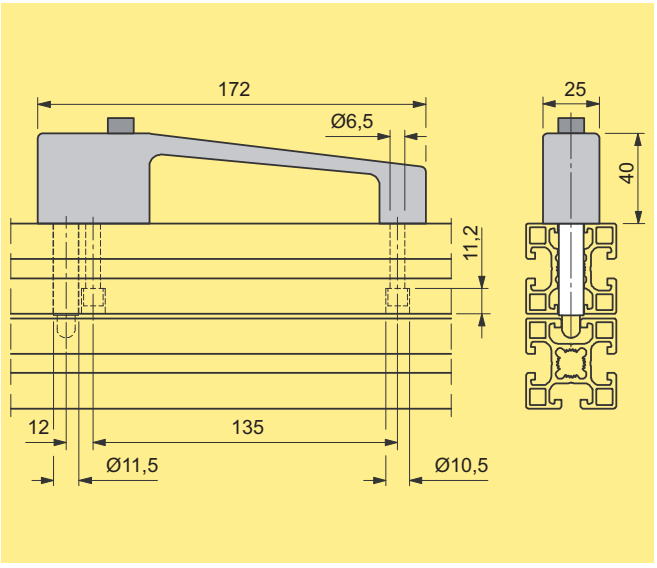
- Handle with locking function for horizontally and vertically opening profile framed sliding elements.
- Only suitable for profiles in a depth of 40mm.
- Pressing the pushbutton engages the striker pin.
- The doorpost requires no machining work.
- Includes fixing material.

Handle

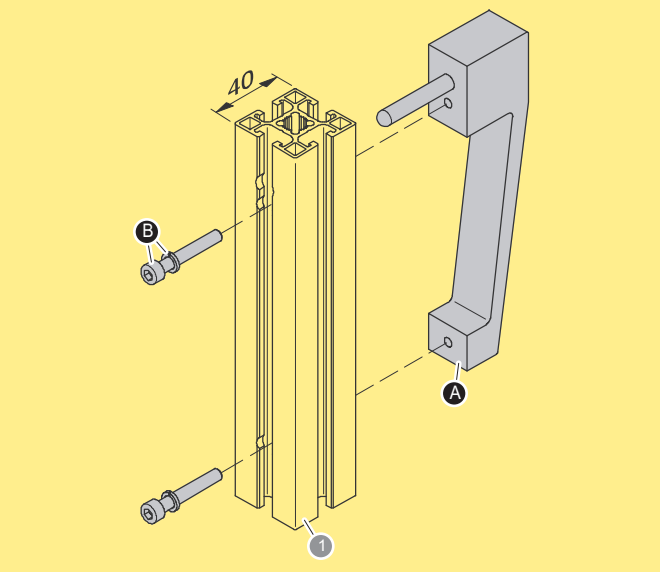


Handle **TCEL 172**

Machining



Assembly



Part list	
A	Locking handle
B	Socket head cap screw, M6x40/ circlip 6
1	Door leaf

		Part number		
Handle incl. fixing material	A B	TCEL 172	Aluminum	E6/EV1 anodised finish

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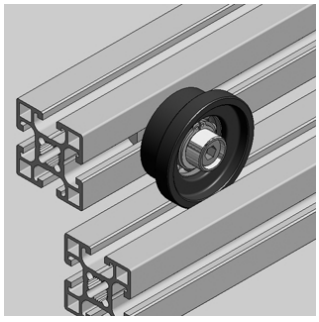
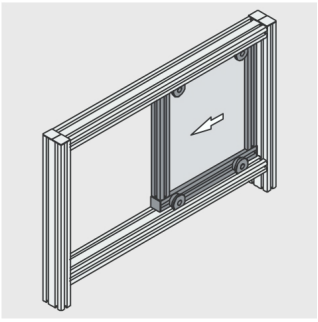
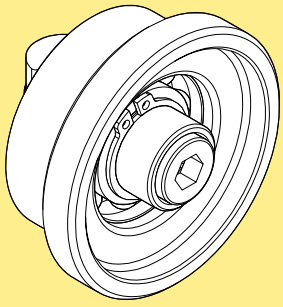
Guide rollers for profile-framed sliding elements





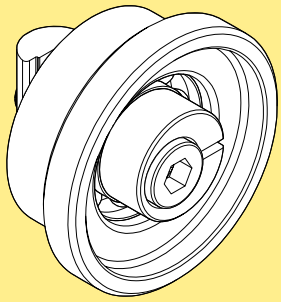
- Rollers for linear guiding actions.
- Adjustable eccentric roller with ±2,5mm adjustment travel.
- Max. supporting force of 500N.
- Maintenance-free roller bearing.
- Bearing journals and fixing material: Steel, galvanised.
- Assembly: Depending on method of fixing, it may be necessary to fit the bushing the other way round (see illustration).
- Fixing material included.

Guide wheel, concentric



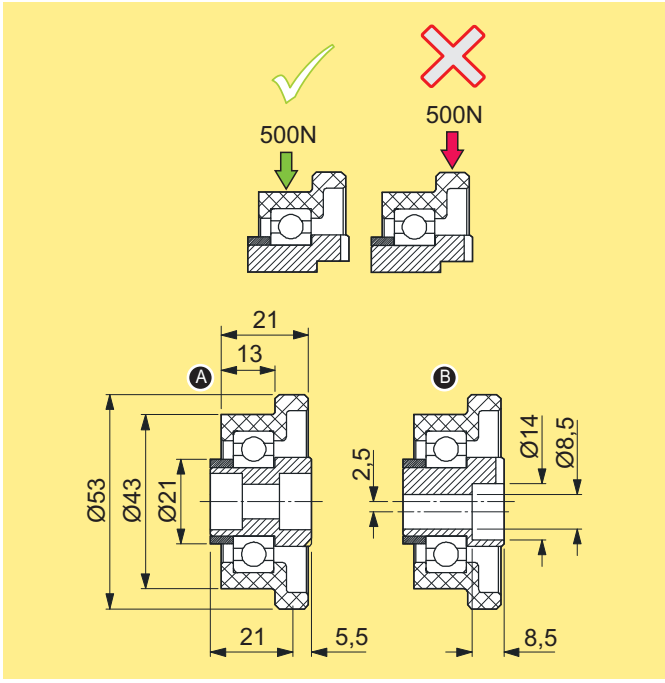
Guide wheel, concentric **TCAW 43**

Guide wheel, eccentric



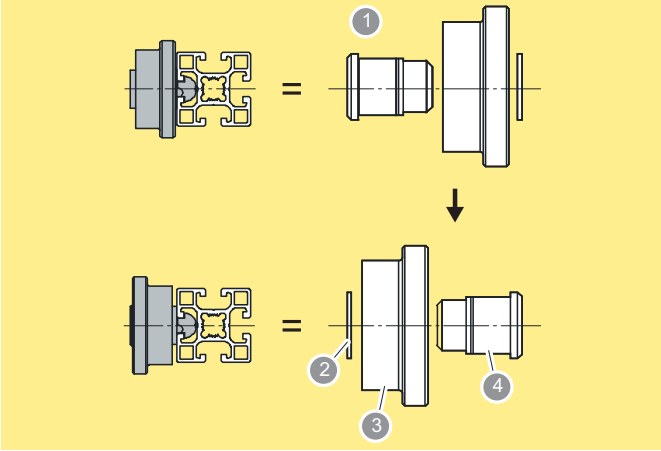
Guide wheel, eccentric **TCAW 43 E**

Dimensions



Part list	
A	Standard roller/ M8x30 socket head cap screw/ circlip 8/ M8 T-slot nut
B	Eccentric roller/ M8x30 socket head cap screw/ circlip 8/ M8 T-slot nut

Fitting the bushing the other way round



1	Configuration on delivery
2	Lock ring
3	Roller
	Bushing (standard or eccentric)

			Part number		
Guide roller incl. fixing material	A	Standard	TCAW 43	Plastic	Black
	B	Eccentric	TCAW 43 E		

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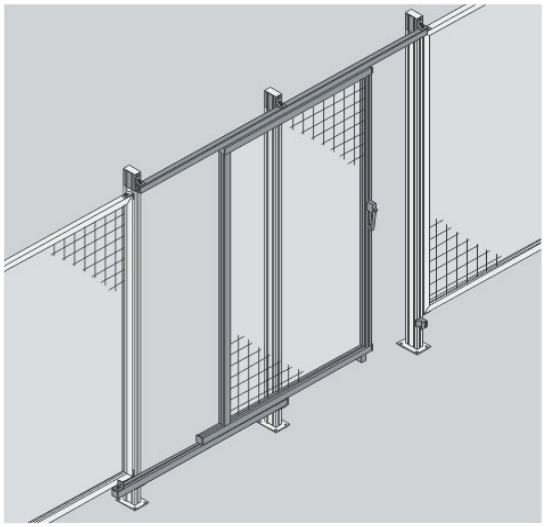
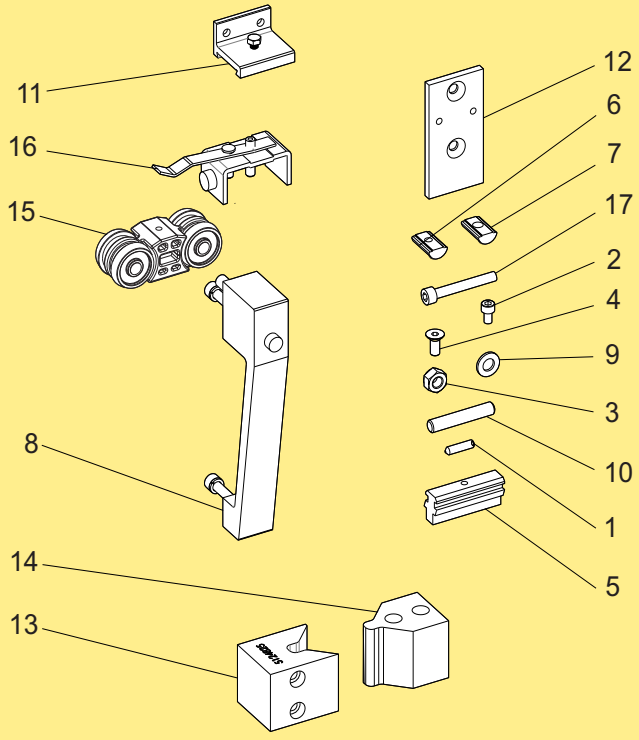
Fitting for horizontal profile-framed sliding doors



- Runner profile and hardware set for horizontal profile-framed sliding doors.
- Hardware set consisting of:
  - 3x mounting brackets for runner profile, top
  - 2x carriage, 1x stopper
  - 2x sliding T-slot block with offset (L=50mm)
  - Guiding key
  - Locking handle
- Includes fixing material.
- Safety switch available as accessory.

Assembly kit

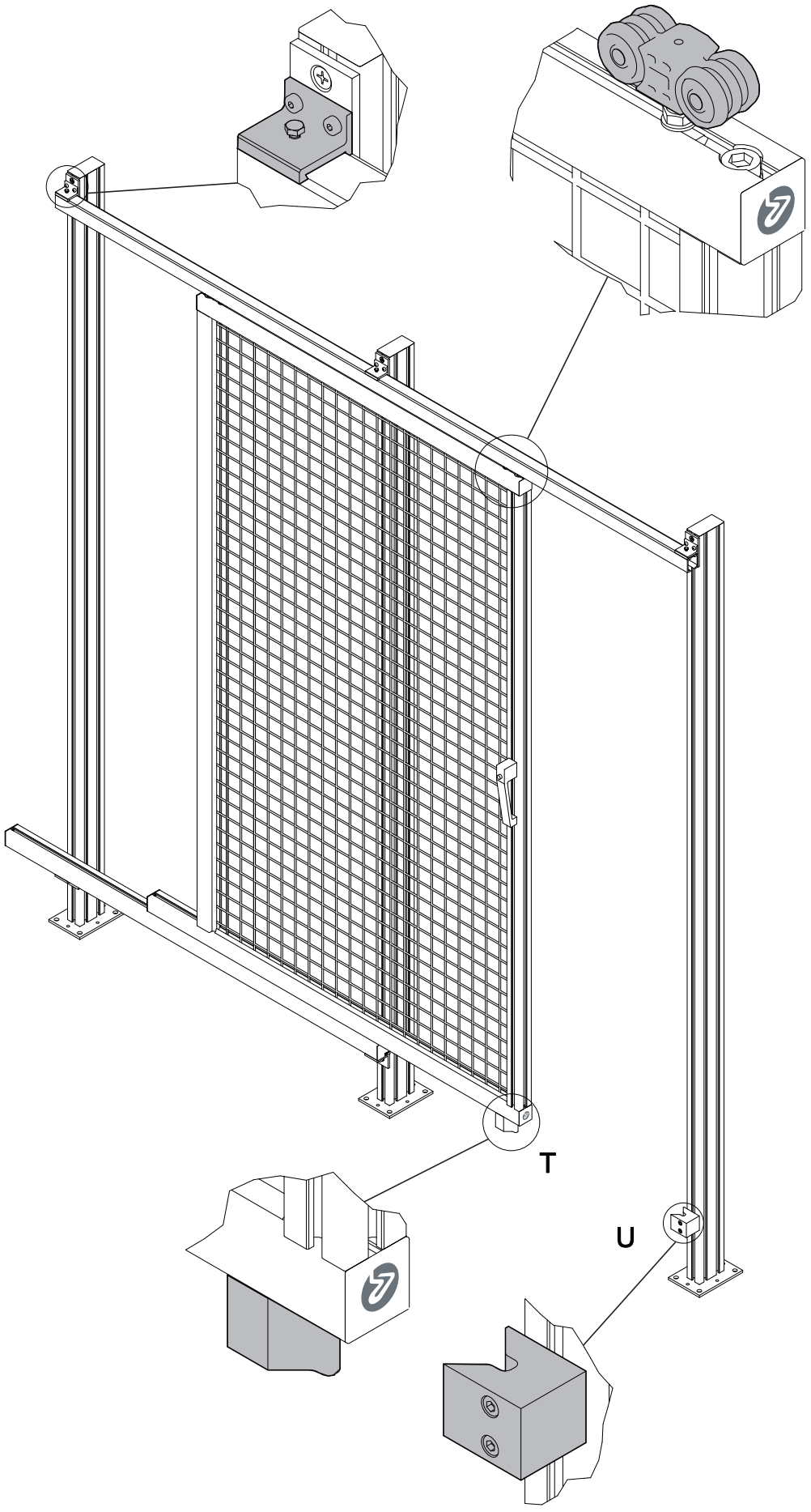


Assembly kit

TCHS 80

Item	Description	Part no	Qty	Item	Description	Part no	Qty
1	Slotted set screw	(5124832)*	2	10	Stud bolt M8	(5124828)*	2
2	Hexagon socket head cap screw	(5051193)*	6	11	Bracket	(5124827)*	3
3	Hexagon nut	(5046629)*	2	12	Bracket	(5124824)*	3
4	Hexagon socket c-sunk screw	(5046648)*	6	13	Stop	(5124825)*	1
5	Sliding element for T-slot	(5124830)*	2	14	Stop	(5124826)*	1
6	T-slot nut M6	(5123609)*	10	15	Roller	(5124820)*	2
7	T-slot nut M8	(5123614)*	2	16	Stop (can be ordered separately)	(5124823)*	1
8	Handle	(5124660)*	1	17	Screw	(5046721)*	4
9	Washer	(5046416)*	2		* Included in kit		

Mounting instructions 1(2)



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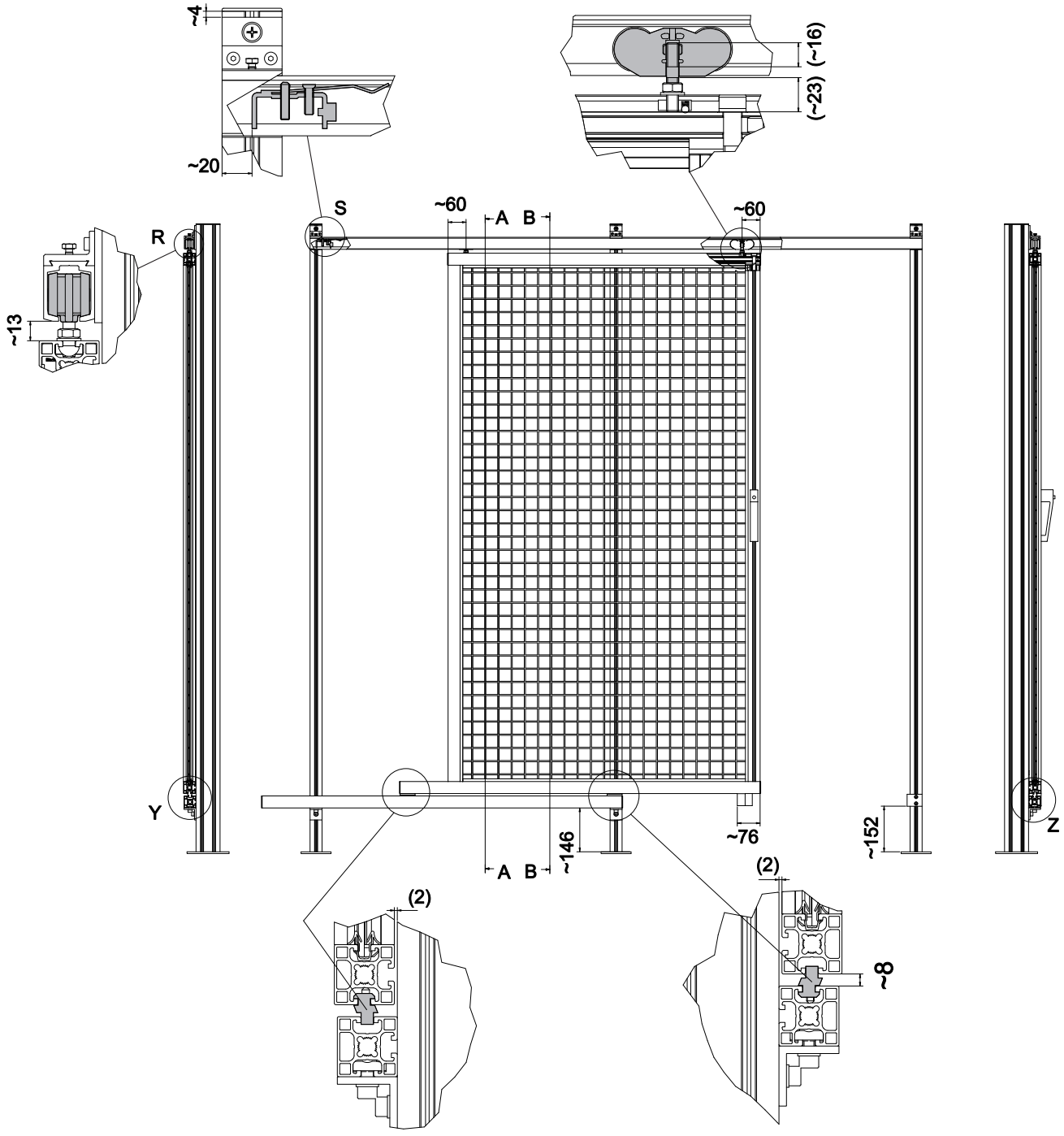
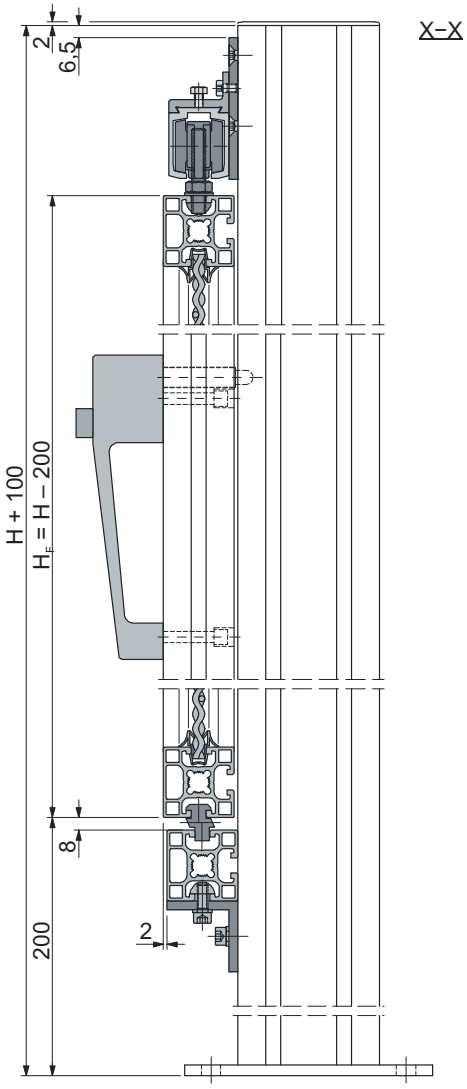
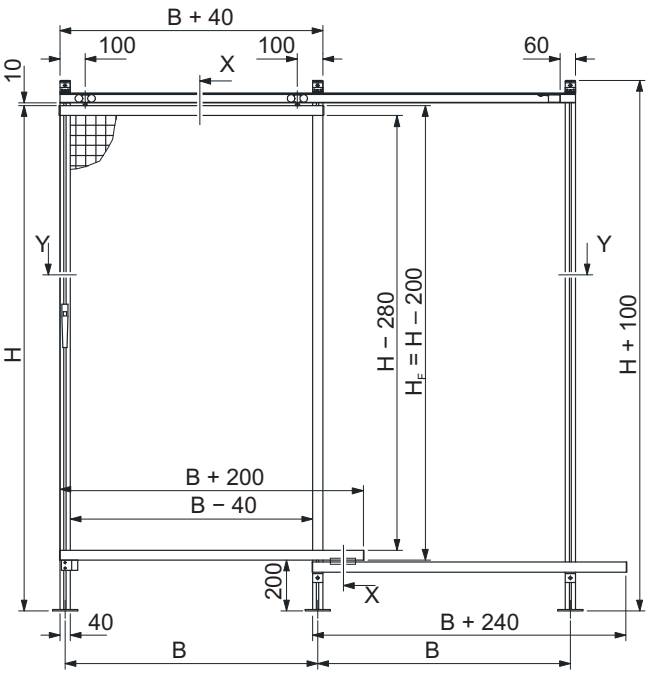
Mounting instructions 2(2)

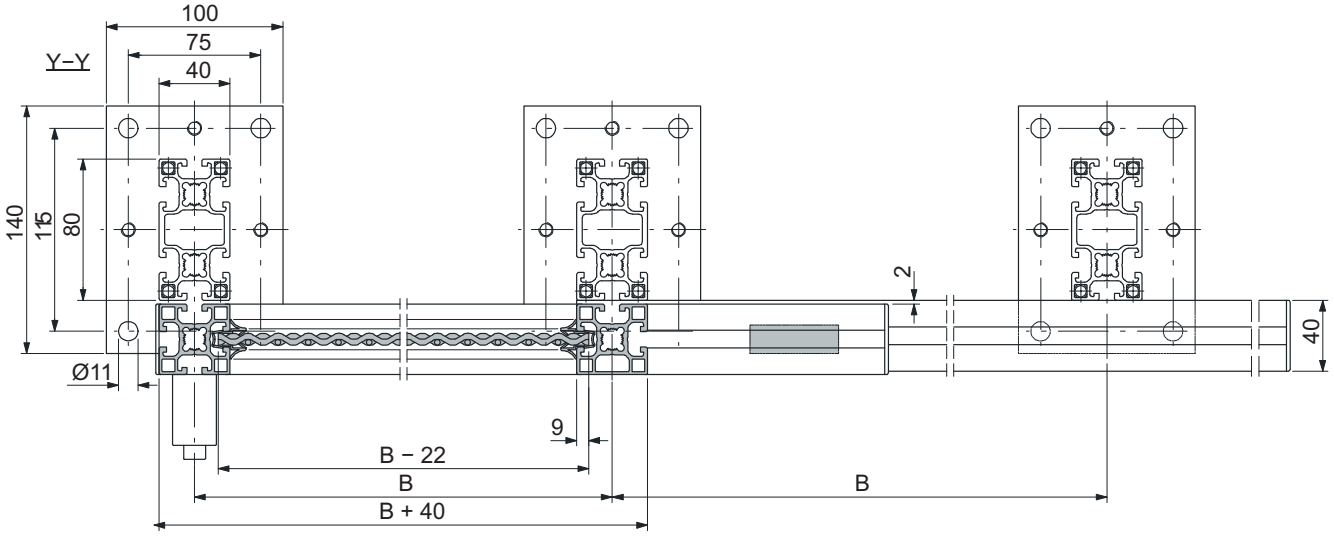


		Part number		
Guide profile for carriage		TCBP 6x34x40	Aluminum	Anodised finish
Assembly kit, sliding doors	1 | 17	TCHS 80	Misc.	Misc.

Fitting for horizontal profile-framed sliding doors







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Tools

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Overview of punching tools

Hydropneumatic hand punch

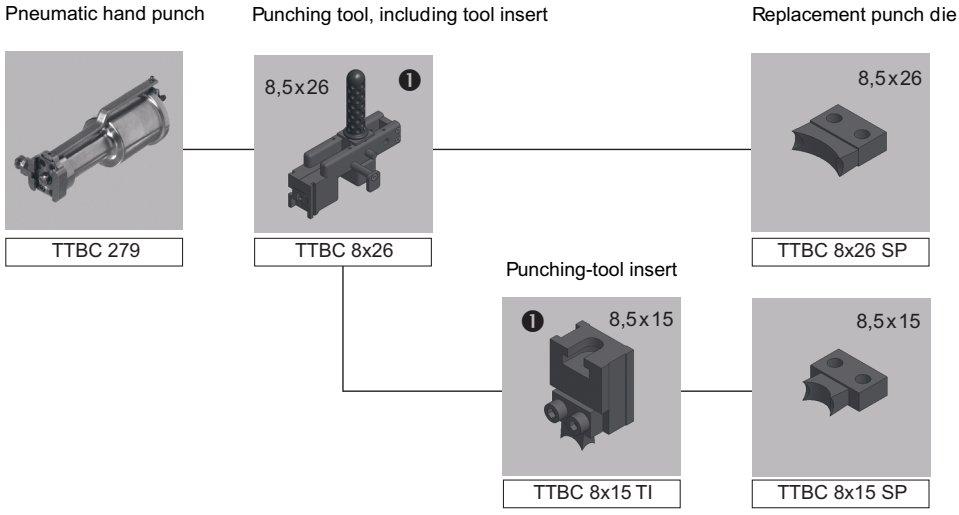
The pneumatic hand punch can be combined with various punching tools.

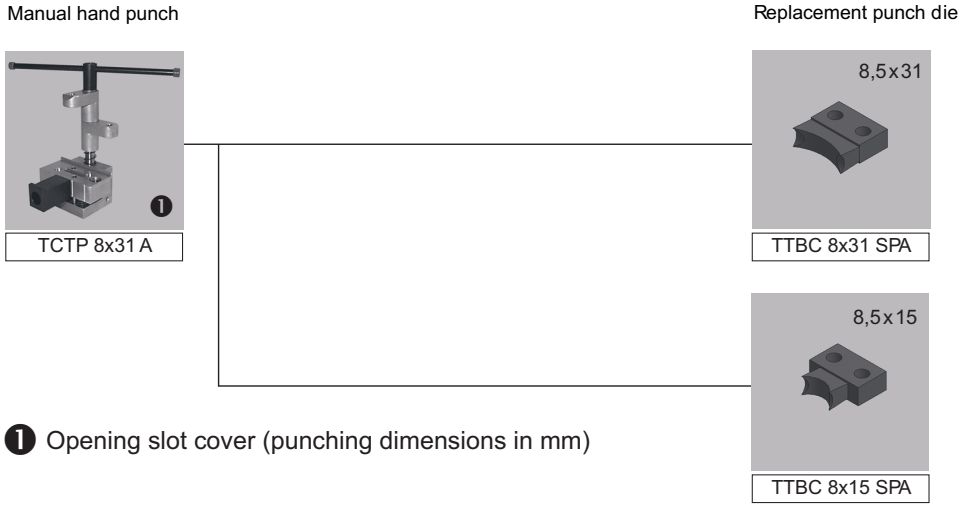
Each punching tool consists of:

- tool adapter adjustable to the 40 and 80mm profile width
- tool insert with punch die.

Manual hand punch

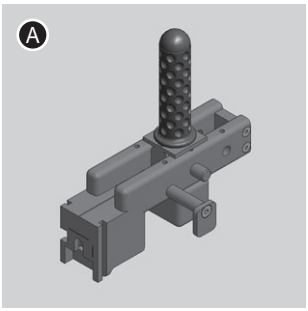
Simple punching tool for removing the slot cover on closed profiles

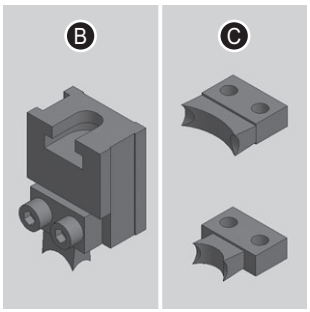


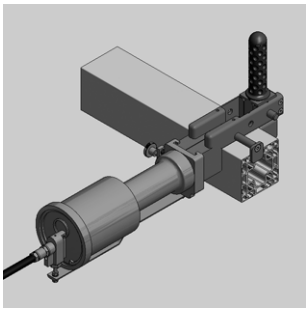


❶ Opening slot cover (punching dimensions in mm)

Punching tools, TC40, Slot cover



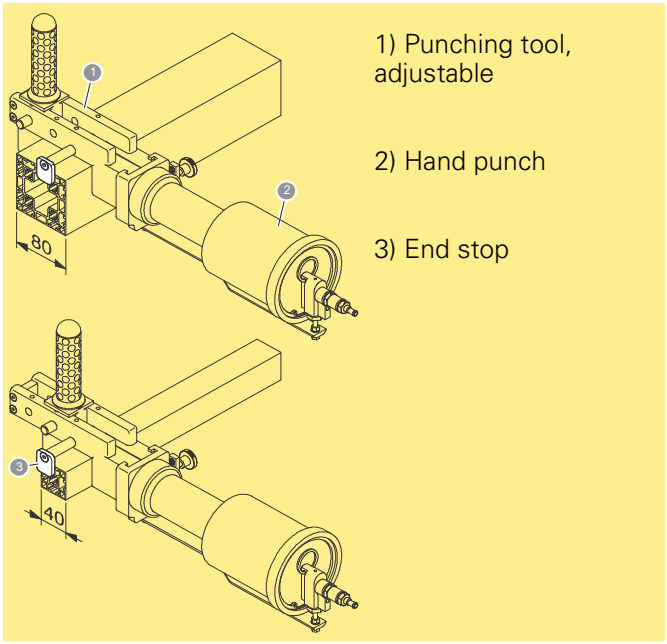




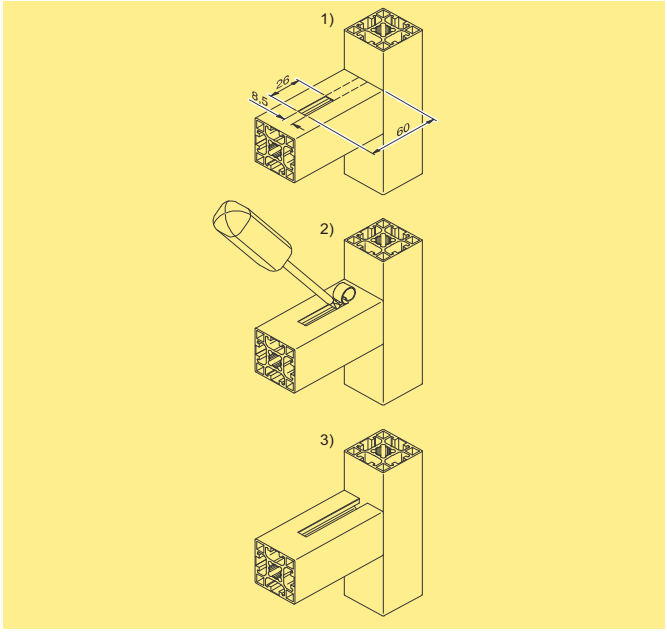
- Punching tool TTBC 8x26, including punching-tool insert, for pneumatic hand punch (part number. TTBC 279) with a punching with of 26mm.
- End stop (60mm) for positioning punching from profile end.
- Used for profile cross sections 40x40, 40x80, 80x80mm.
- Accessories available individually.
  - exchangeable punching-tool insert with 15mm punching width
  - replacement 15 and 26mm punch dies.

		Part number	
Punching tool	A	TTBC 279	8,5x26
Punching-tool insert	B	TTBC 8x15 TI	8,5x15
Replacement punch die	C	TTBC 8x15 SP	8,5x15
		TTBC 8x26 SP	8,5x26

Profile options



Punching for Universals joints



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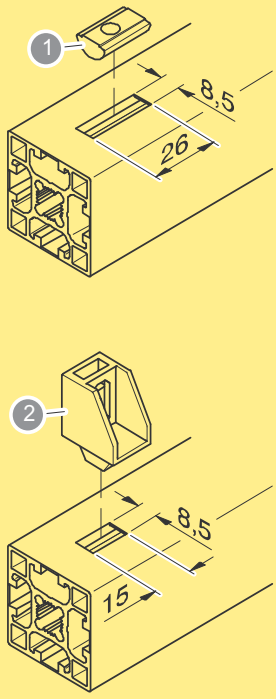
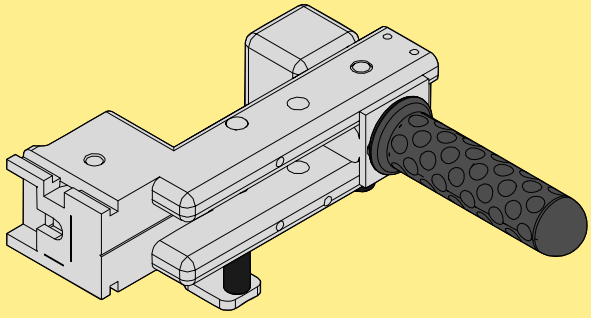
Punching for accessories



1) T-slot block

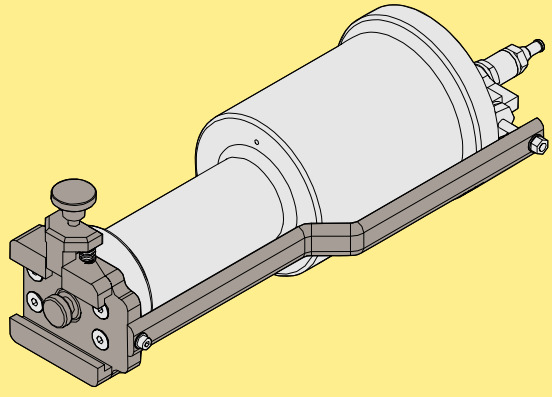
2) Assembly block

Punching tool, 8.5x26



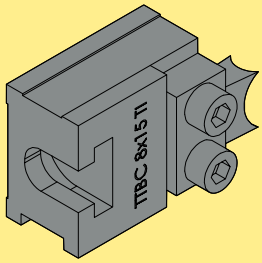
Punching tool, 8.5x26 **TTBC 8x26**

Punch, pneumatic



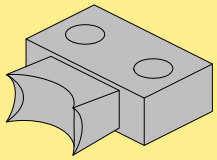
Punch, pneumatic **TTBC 279**

Punching tool, replacement insert



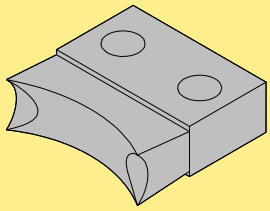
Punching tool, replacement insert **TTBC 8x15 TI**

Die, replacement



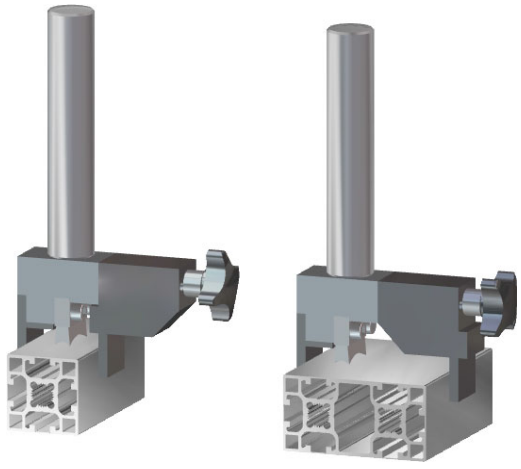
Die, replacement **TTBC 8x15 SP**

Die, replacement



Die, replacement **TTBC 8x26 SP**

Punching tool TC40



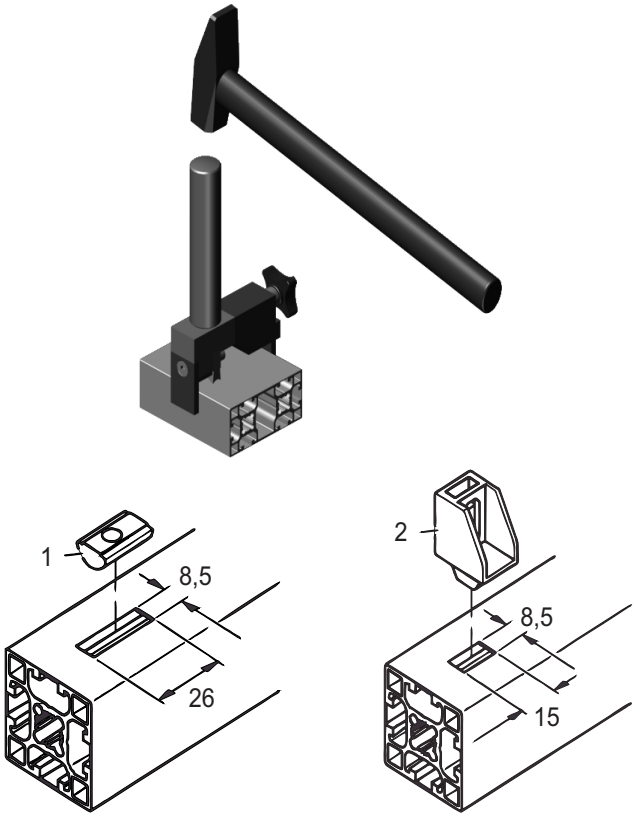
Description

- Useable for profiles TC40 Basic closed and Heavy closed
- Open a window of 8,5x26 mm
- Optional 8x15 mm

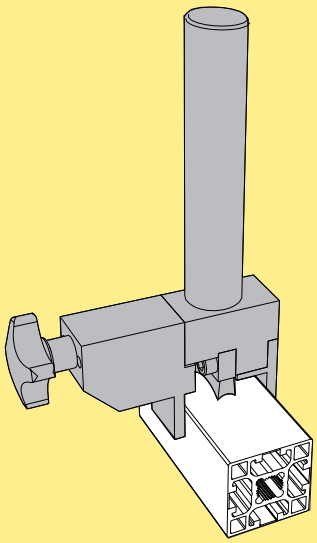
Advantages:

- Easy handling
- Low investment
- Flexible use

Mounting instructions



Punch, to open closed t-slots



Punch, to open closed t-slots **TCTP 8x26**

		Part number
1	Punch, to open closed t-slots	TCTP 8x26
2	Optional, die replacement	TTBC 8x15 SP

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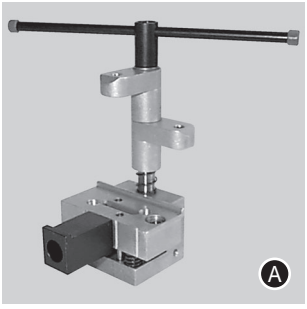
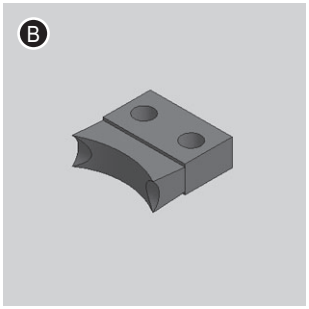
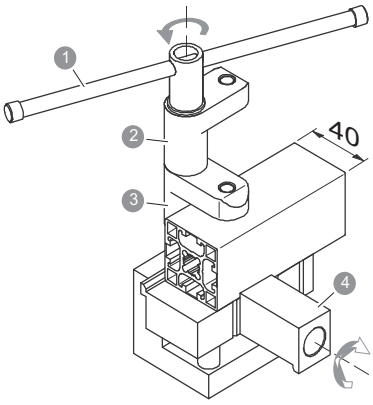
Hand punch, TC40, Slot cover





- Manual hand punch, including punch die, with a punching width of 31mm for removing the slot cover on closed profiles.
- Used for profile cross sections 40x40, 40x80, 80x80mm.
- Accessories available individually.
- Replacement 15 and 31mm punch dies

Use

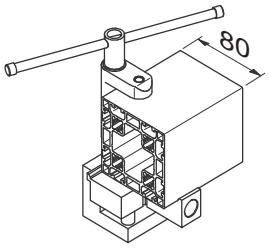


1) Driver

2) Holding-down device, 80mm

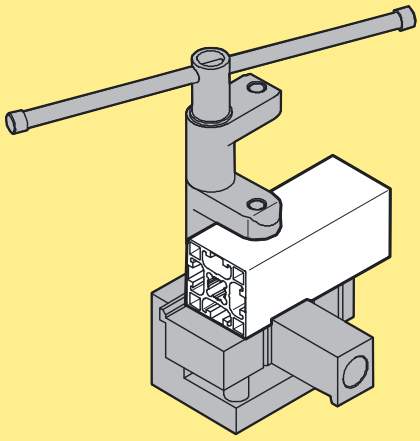
3) Holding-down device, 40mm

4) Lateral stop



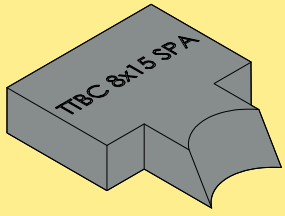
		Part number	H T B
Hand punch including punch die	A	TCTP 8x31 A	8,5x31
Replacement punch die	B	TTCP 8x15 SPA	8,5x15
		TTCP 8x31 SPA	8,5x31

Punching tool, to open closed T-slots



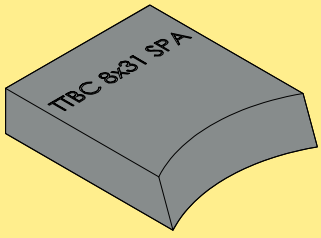
Punching tool, to open closed T-slots **TCTP 8x31 A**

Die, replacement 8.5x15



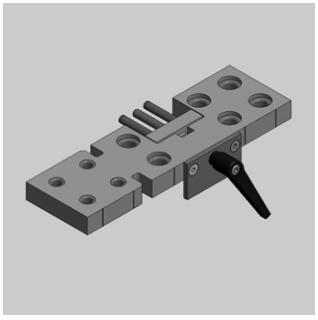
Die, replacement 8.5x15 **TTBC 8x15 SPA**

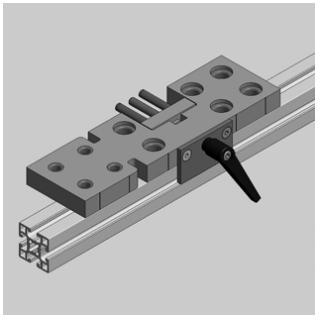
Die, replacement 8x31



Die, replacement 8x31 **TTBC 8x31 SPA**

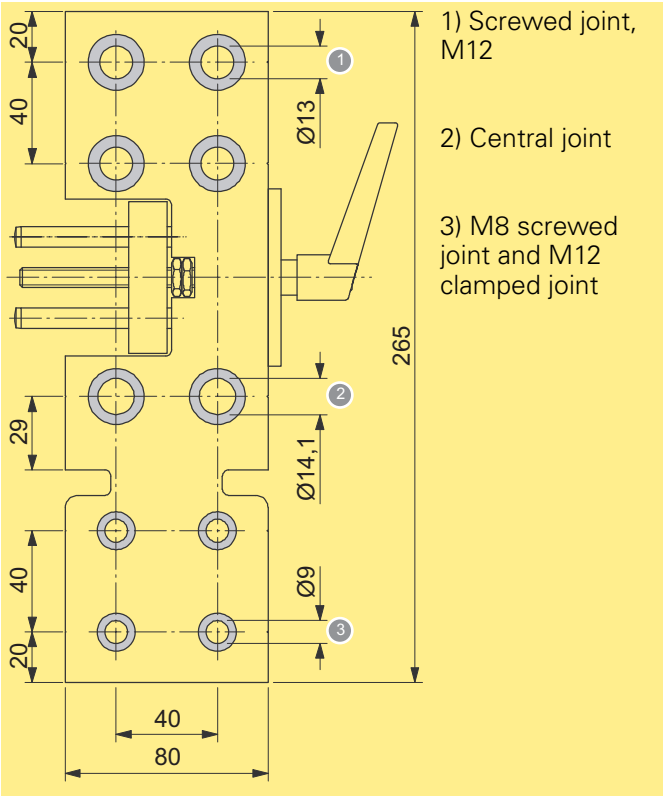
Drilling jig, TC 40, for M8-/M12 joint, central joint





- Drilling jig for rational profile machining of:
  - M8/M12 screwed joint
  - M12 clamped joint
  - central joint.
- Low weight- basic structure in aluminum.
- Long life- drill bushes in hardened steel.
- Easy to handle:
  - side markings for precision positioning.
  - Designed for open and closed profiles with cross sections of 40x40; 40x80 and 80x80

Dimensions



	Part number
Drilling jig	TCAD M8M12CJ

Drill fixture, M8 - M12 - central joints

Drill fixture, M8- M12- central joints **TCAD M8M12CJ**

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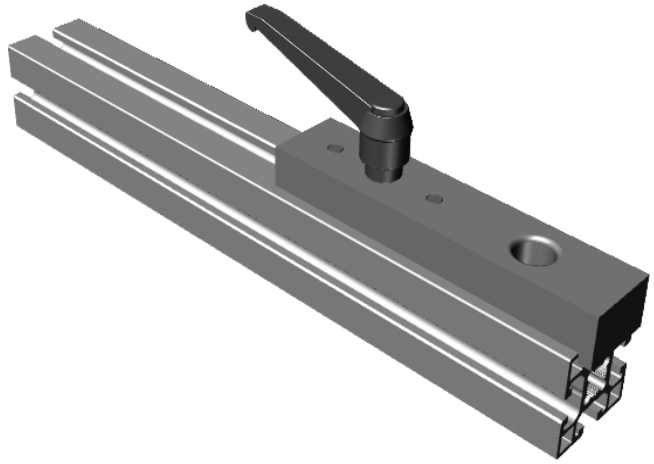
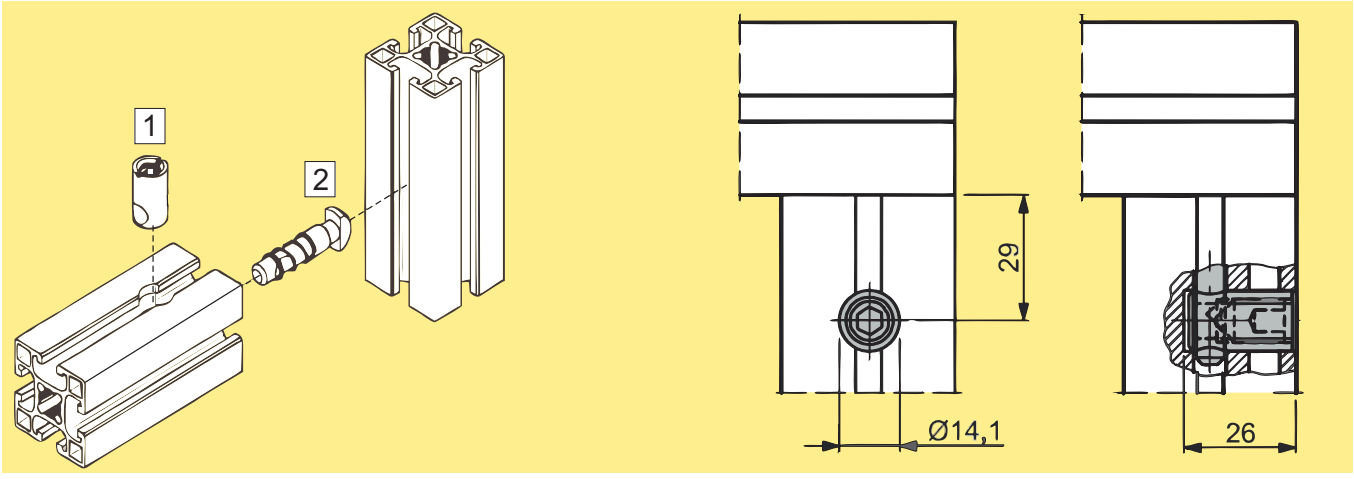
Drill fixture Central Joints TC40 for open T-slots



Description

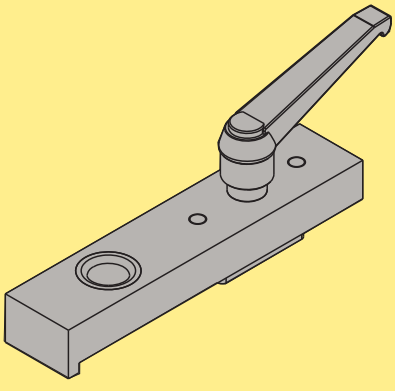
- Drill fixture TC 40 for profile machining of Central Joints TC40, 90° rigid
- Useable for all TC40 Profiles with open T-slots
- Not useable for Central Joints TC40 articulated and mitred
- Stop surfaces for positioning in relation to profile end face

Mounting instructions



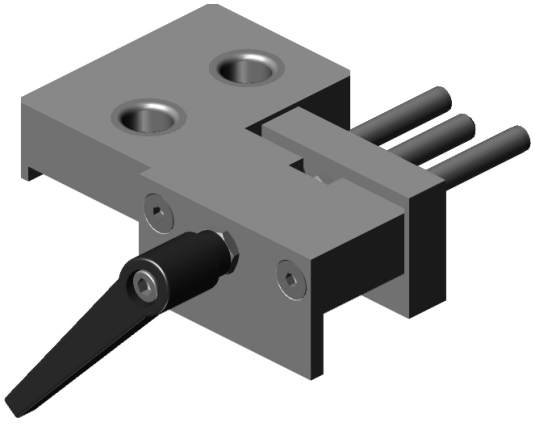
	Part number
Drill fixture, central joints	TCAD 14 CJ

Drill fixture, central joints



Drill fixture, central joints **TCAD 14 CJ**

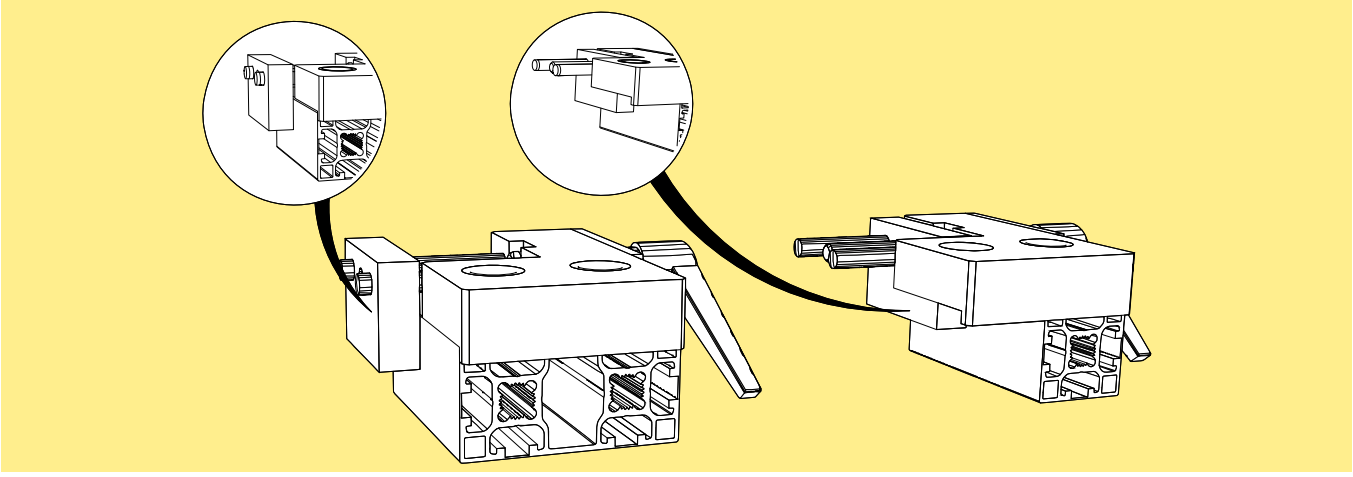
Drill fixture Central Joints TC40 for closed profiles



Description

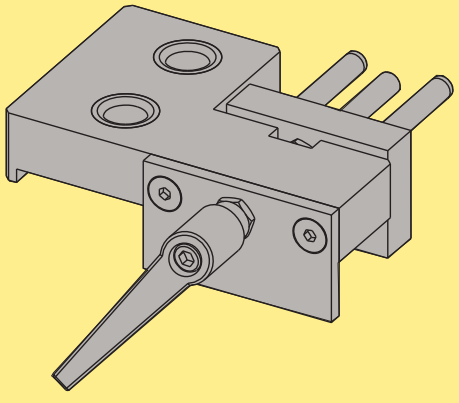
- Drill fixture TC 40 for profile machining of Central Joints TC40, 90° rigid
- Useable for profiles TC40 Basic closed and Heavy closed
- Not useable for Central Joints TC40 articulated and mitred
- Stop surfaces for positioning in relation to profile end face

Mounting instructions



	Part number
Drill fixture, central joints- closed T-slots	TCAD 14 CJC

Drill fixture, central joints - closed T-slots



Drill fixture, central joints- closed T-slots

TCAD 14 CJC

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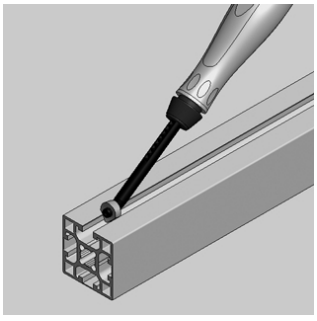
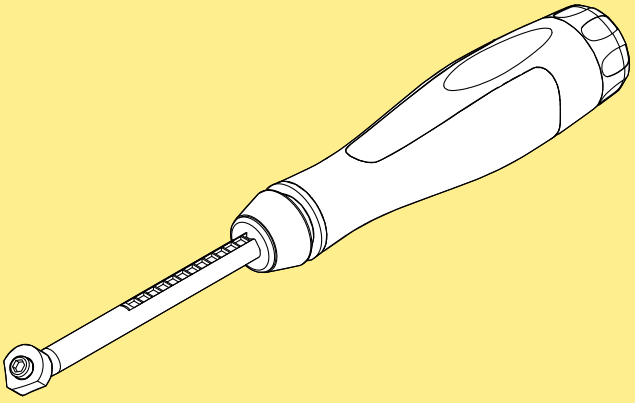
Hand deburring tool for opened profile slots



- Hand deburring tool for finishing slots opened in closed profiles.
- For deburring 2 edges in one operation.
- Long-life blade in HSS.
- Blade-to-handle distance can be varied for ergonomic working style.

	Part number
Hand deburring tool	TTBC 92

Deburring tool, hand deburring



Deburring tool, hand de-burring **TTBC 92**

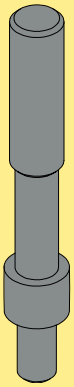
Countersink

- Countersink for finishing profile for M8 and M12 screwed joint
- Countersink angle 90°, with cylindrical shank, right-hand cutting, with centring tip (similar to DIN373).

Note! Drilling of the through hole must be done first

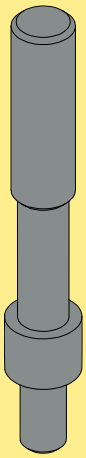
	$Ø_1$ [mm]	$Ø_2$ [mm]	L [mm] *)	**Part number**
Countersink	9	15	18	TTCS 9x15
	13	20	12	TTCS 13x20
*) Length of centring tip				

Drill, counter bore M8, special



Drill, counter bore M8 **TTCS 9x15**

Drill, counter bore M12



Drill, counter bore M12, special **TTCS 13x20**

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Twist drill

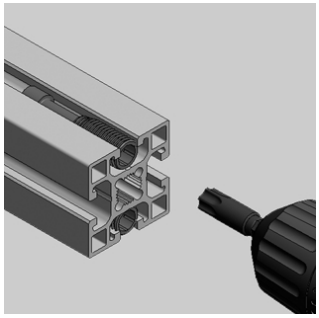
- Twist drill for drilling hole for central joint.
- For drilling 14.1mm diameter. cross hole for clamping cylinder.
- Tip angle 180°, with cylindrical shank, right-hand cutting.

	Part number
Twist drill bit, Ø 14.1mm diameter	TTTD 14

Drill, diameter 14.1

Drill, diameter 14.1 **TTTD 14**

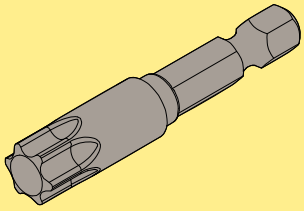
Hexalobular socket bits



- General-purpose bits for hexalobular socket screws (ISR).
- Bit receiver for 1/4" hex.
- Particularly recommended for mounting the universal joint with an impact driver

		L	**Part number**
Bit, hex lobular socket (ISR)	ISR 50	50	TTSD 50x50

BIT, hexalobular 50



BIT, hexalobular 50 **TTSD 50x50**

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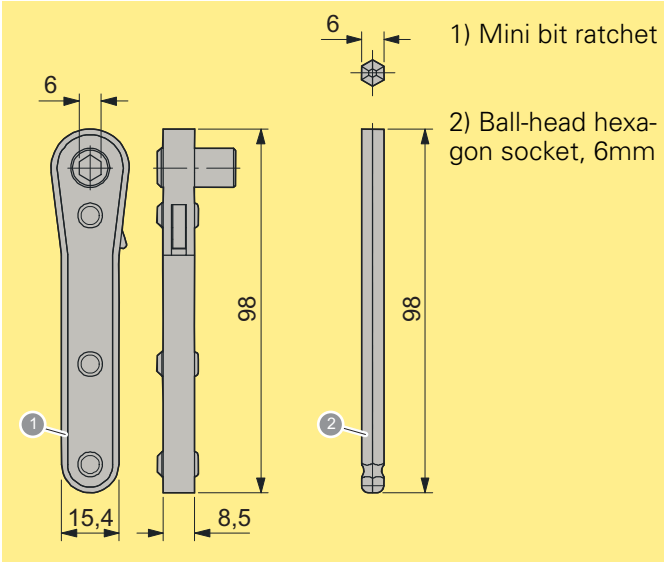
Mini bit ratchet, hexagon socket 6 mm

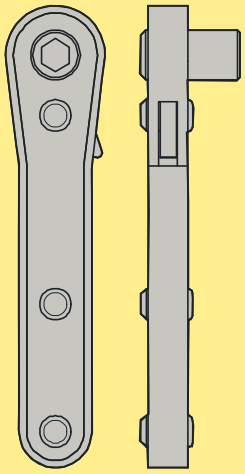
- Universal, miniature-size ratchet.
- Bit holder for 6 mm hex.
- Long-size 6 mm ball-head hexagon key (ISK6).
- Particularly recommended for mounting the universal joint- Ball head makes easy work of tightening the screw located in the slot.

Dimensions



	Part number
Mini bit ratchet	TTCD 98
Ball-head hexagon key, 6mm	TTSD 6x98

Ratchet, mini version



Ratchet, mini version **TTSD 98**

BIT, hexagon socket 6

BIT, hexagon socket 6 **TTSD 6x98**

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Technical specification

Aluminum profiles

Tolerances

The profiles are manufactured as extruded profiles. Tolerances for dimensional and shape variations in accordance with EN12020-2.

Cutting tolerance

Applies for all aluminum profiles offered as "**L**" length. Where "**L**" is according to order.

Variable L (mm)	Length tolerance (mm)
L= 30-1000	± 0,30
L= 1001-2000	± 0,50
L= 2001-4000	± 0,80
L= 4001-6000	±1,00

Angular cutting shall be within ±0,5°

Anodised surface

The profile surface is natural in colour and anodised in a matt finish (E6/EV1). Surface quality in conformity with EN 12020-1.

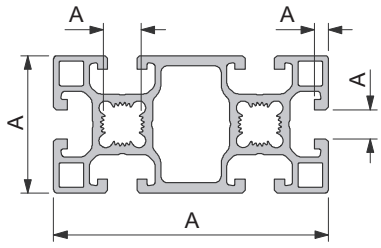
Surface treatment cannot completely eliminate striations and roughness resulting from manufacture. Slight permissible colour differences attributable to material or process-related variations cannot be avoided.

Material	
Material designation	EN AW-6063 T66
Material state	heat-hardened
Minimum tensile strength (in pressing direction)	R_m=245 N/mm²
0.2% tensile yield strength (in pressing direction)	$R_{p0,2}$=195 N/mm²
Elongation at break	A_5=10% A_{10}=8%
Modulus of elasticity	E=70.000 N/mm²
Brinell hardness	75 HB
Coefficient of linear thermal expansion	$\alpha_{(-50...+20°C)}$=21,8x10^{-6} 1/K $\alpha_{(+20...+100°C)}$=23,4x10^{-6} 1/K
Poisson ratio	μ=0,34

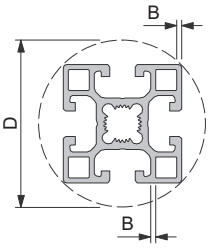
Anodised surface	
Coating thickness	t = 12 μm
Coating hardness	300 HV

Dimensional and shape tolerances for profiles

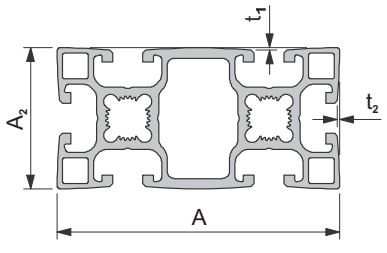
Tolerances for dimensional and shape variations in accordance with EN 12020-2. Narrower tolerances are achieved in some cases as a result of close tolerance ratings for pressing tools.

Cross-sectional dimensions	Dimension A (mm)	Dimensional tolerance [mm]
	0...10	± 0,15
	>10...15	± 0,20
	>15...30	± 0,25
	>30...45	± 0.30
	>45...60	± 0,40
	>60...90	± 0,45
	>90...120	± 0,60
	>120...150	± 0,80
	>150...180	± 1,00
	>180...240	± 1,20
	>240...300	± 1,50
Applicable to all dimensions apart from wall thicknesses		

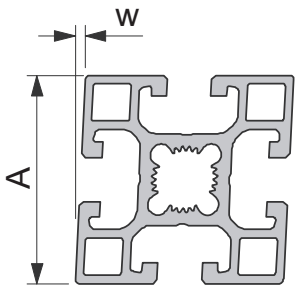
Wall thicknesses

Wall thicknesses	Wall thickness	Wall thickness tolerance [mm] for circumscribing circle D [mm]	
	B (mm)	D≤100	100<D≤300
	0...1,5	± 0,20	±0,30
	>1,5...3	± 0,25	±0,40
	>3...6	± 0,40	±0,60
	>6...10	± 0.60	±0,80
	>10...15	± 0,80	±1,00

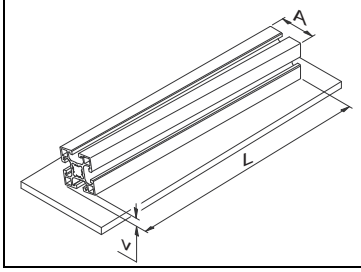
Convexity-Concavity

Convexity-Concavity	Width A (mm)	Straightness tolerance t1[mm]
	0...30	0,20
	>30...60	0,30
	>60...100	0,40
	>100...150	0,50
	>150...200	0,70
	>200...250	0,85
	>250...300	1,00
Variation t2 must not exceed 0,5 mm over a width section A2 of 100 mm		

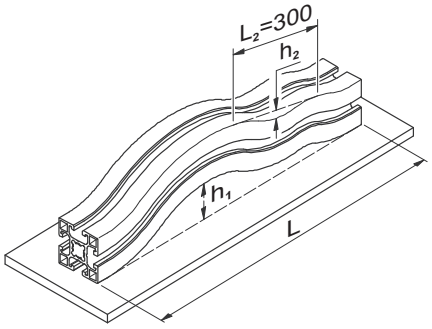
Rectangularity

Rectangularity	Width A (mm)	Angle tolerance w [mm]
	0...30	0,3
	>30...50	0.4
	>50...80	0,5
	>80...100	0,6
	>100...120	0,7
	>120...140	0,8
	>140...160	0,9
	>160...180	1,0
	>180...200	1,2
	>200...240	1,5
The maximum permissible variation for a non-right angle is ± 1°		

Torsion

Torsion	Width A [mm]	Torsional tolerance v [mm] for lengths L [mm]					
		L≤1000	1000<L≤2000	2000<L≤3000	3000<L≤4000	4000<L≤5000	5000<L≤6000
	0...30	1,0	1,5	1,5	2,0	2,0	2,0
	>25...50	1,0	1,2	1,5	1,8	2,0	2,0
	>50...75	1,2	1,2	1,2	1,5	2,0	2,0
	>75...100	1,2	1,2	1,5	2,0	2,2	2,5
	>100...125	1,4	1,5	1,8	2,2	2,5	3,0
	>125...150	1,2	1,5	1,8	2,2	2,5	3,0
	>150...200	1,5	1,8	2,2	2,6	3,0	3,5
	>200...300	1,8	2,5	3,0	3,0	4,0	4,5

Straightness

Straightness	Length, L (mm)	Straightness tolerance, h1 [mm]
	0...1000	0,7
	>1000...2000	1,3
	>2000...3000	1.8
	>3000...4000	2,2
	>4000...5000	2,6
	>5000...6000	3,0
Straightness h2 must vary by no more than 0,3 mm over a length L2 of 300 mm		

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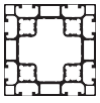
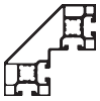
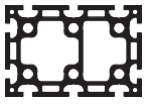
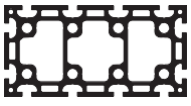
Profile data

The table shows profile data per metre for the different profile series.

Series		Item number	kg/m	W_x cm^3	W_Y cm^3	I_x cm^4	I_y cm^4	F KN
Light		TCBL Lx40	1,4	3,9	3,9	7,8	7,8	8,0
		TCBL Lx40x80	2,4	14,0	7,1	56,0	14,2	8,0
Basic		TCBB Lx40x16	0,8	0,4	2,3	0,8	4,6	10
		TCBB Lx40	1,5	4,3	4,3	8,7	8,7	10
		TCBB Lx40 C	1,5	4,6	4,6	9,2	9,2	10
		TCB Lx40x80	2,5	15,2	7,9	60,7	15,8	10
		TCBB Lx40x80 L	2,6	15,0	8,4	60,0	16,8	10
		TCBB Lx40x80 C	2,6	16,0	8,5	16,9	10,0	10
		TCBB Lx40x120	3,7	31,5	11,9	189,1	23,8	10
		TCBB Lx80x80	4,7	29,3	29,3	117,2	117,2	10
		TCBB Lx80x80 C	4,8	30,6	30,6	122,4	122,4	10
		TCBA Lx40	1,2	2,6	2,6	6,0	6,0	10
		TCBR Lx56	1,7	4,3	3,8	14,2	10,2	10
		TCBA Lx80	2,8	14,5	14,5	58,4	58,4	10
		TCBA Lx40 MC	1,1	3,7	2,1	7,5	5,0	10

Series		Item number	kg/m	W_x cm^3	W_Y cm^3	I_x cm^4	I_y cm^4	F KN
Heavy		TCBH Lx40	1,8	5,7	5,7	11,4	11,4	16
		TCBH Lx40 C	1,8	6,0	6,0	11,9	11,9	16
		TCBH Lx40x80	3,0	18,8	10,4	75,1	20,7	16
		TCBH Lx40x80 C	3,1	19,6	10,9	78,5	21,8	16
		TCBH Lx80	5,3	34,8	34,8	139,3	139,3	16
		TCBH Lx80 C	5,4	36,1	36,1	144,4	144,4	16
Ultra		TCBU Lx80	6,4	40,8	40,8	163,2	163,2	20
		TCBU Lx80x120	8,9	81,7	59,5	490,0	238,0	20
		TCBU Lx80x160	11,4	135,4	78,2	1083,0	312,9	20
Special profiles		TCBR Lx40	1,5	3,8	3,8	7,6	7,6	6
		TCBB Lx40x160	6,1	67,4	20,2	539,3	40,4	6
RC		TCRC Lx40x80	2,7	9,1	20,4	18,3	81,6	6
		TCRC Lx40x120	3,3	10,6	38,9	21,2	233,1	6

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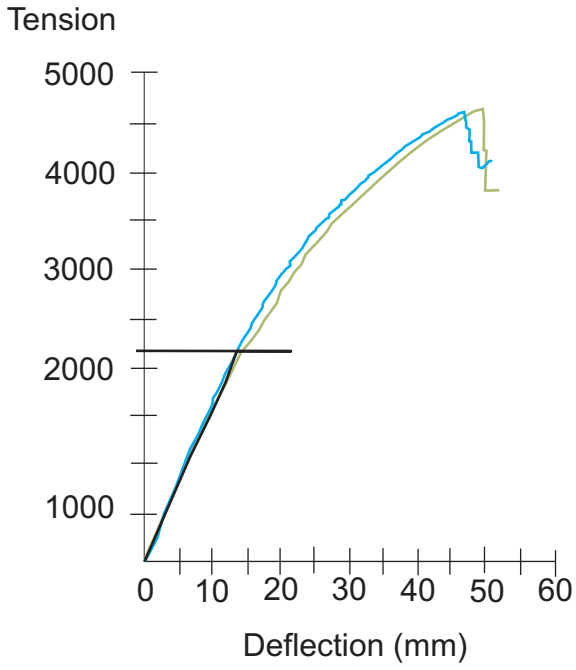
Bending moments

The table on the next page is showing all available results of various bending moment tests.

The connections were tested with universal testing machines: the legs of the U-structure in the picture were pulled outwards to make a bending moment on the connection.



Note! The values are showing the yield points:

a safety factor must be added.

No.	Connector	40x40 Light TCBL …x40	40x40 Basic TCBB …x40	80x80 Basic TCBB …x80	40x40 Heavy TCBH …x40	80x80 Heavy TCBH …x80	80x80 Ultra TCBU …x80
1	Universal joint TCUJ …	160	170	840	200	980	1100
2	Central joint, rigid TCEC 14 …	60	90	-	120	-	-
3	Corner joint 40x40 (die-cast) Single TCFA 40x40 A…	110	130	-	160	-	-
4	Corner joint 40x40 (die-cast) Peer TCFA 40x40 A…	-	240	-	-	-	-
5	Corner joint 40x80 (die-cast) Single TCFA 40x80 A…	-	580	-	-	-	-
6	Corner joint 40x80 (die-cast) Peer TCFA 40x80 A…	-	-	-	-	-	-
7	Angle joint 40x80 (profile version) single TCFA 40x70 B…	230	280	-	-	-	-
8	Angle joint 40x80 (profile version) peer TCFA 40x70 B…	-	460	-	-	-	-
9	Angle joint 80x80 (profile version) single TCFA 80x70 B…	-	-	600	-	650	770
10	Angle joint 80x80 (profile version) peer TCFA 80x70 B…	-	-	830	-	-	1300
11	M12 screwed joint TCSJ 12…	-	-	780	130	840	1900

All values are in Nm

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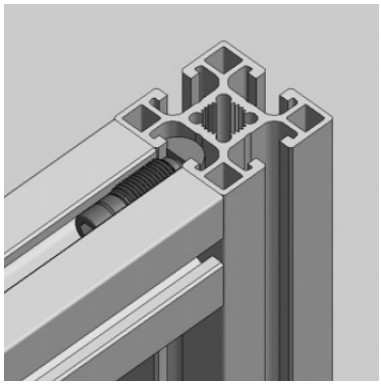
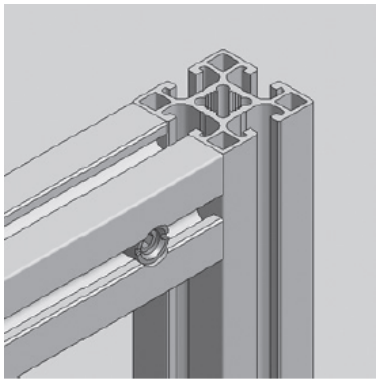
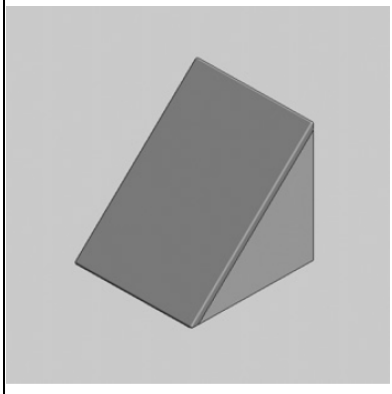
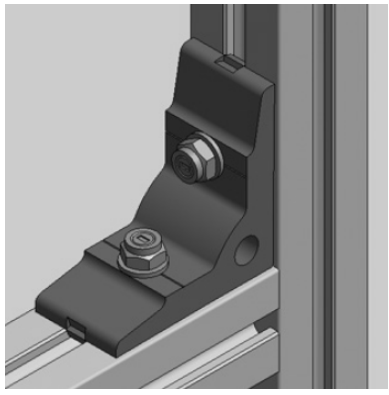
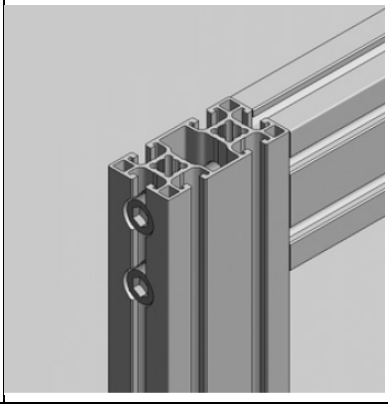
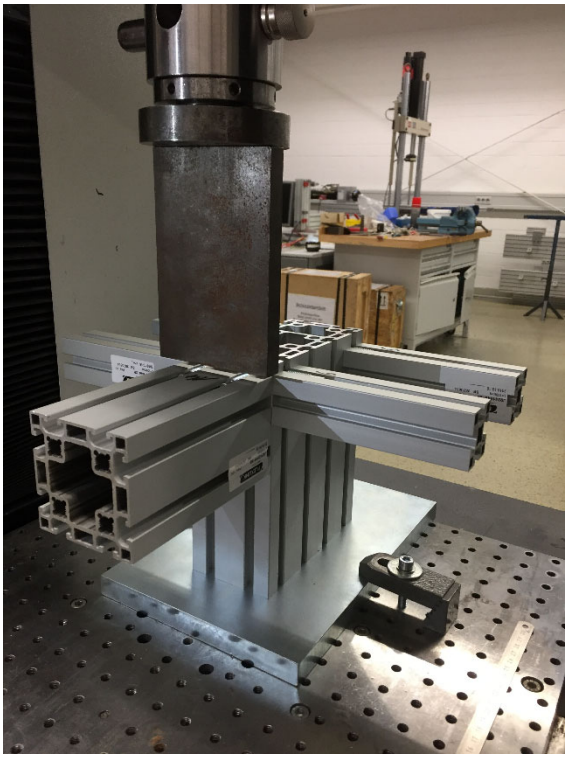
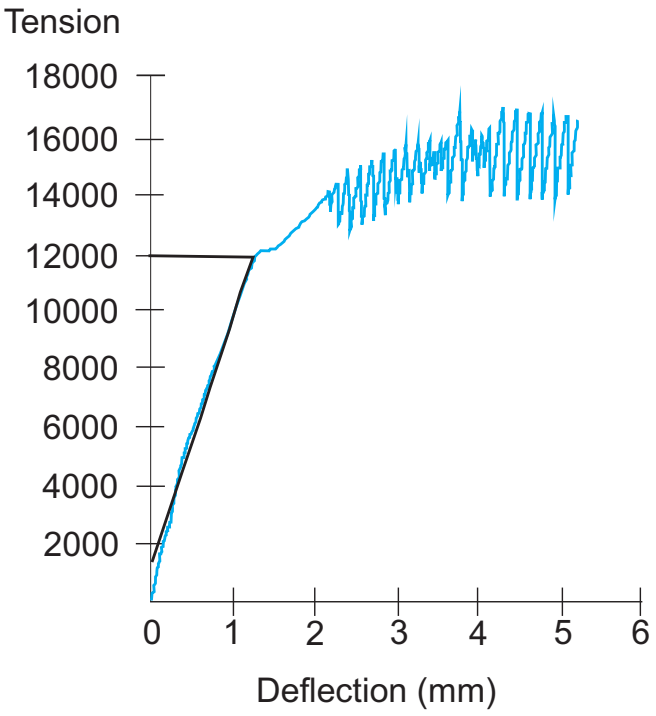
No. 1		No. 2	
No. 3-6		No. 7-10	
No. 11			
Single brackets		Peer brackets	

Shear tests

The shear forces of some connections were tested: the steel plate pressed the horizontal beam downward. The vertical beam was always an 80x160 Ultra.





The values are showing the yield points: a safety factor must be added!

Connector	TCBB Lx40 40x40 Basic	TCBB Lx80 80x80 Basic
TCUJ...	7450	11950
TCEC 14 E	3400	-

All values in N

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