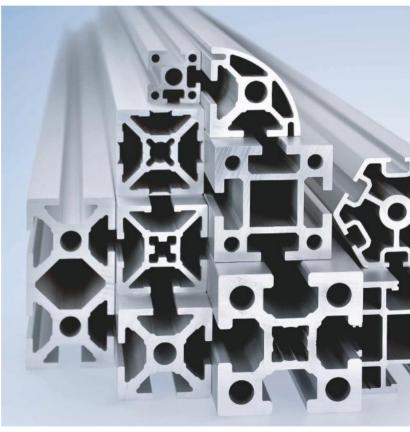


Profile Technology



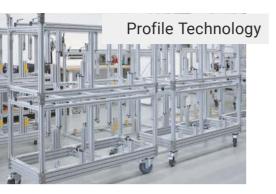


Profile System. Guarding. Industrial Workstations. Platforms.

One Construction Kit. Countless Possibilities.













Components, modules and solutions for factory automation.

Maschinenbau Kitz, the parent company of the mk Technology Group, was founded in 1966 in Troisdorf, near Bonn, Germany. mk is one of the leading suppliers of components, modules and systems for factory automation.

Its portfolio of profile technology includes workstation set-ups, guarding and customdesigned machine frames and platforms, in addition to the aluminium profile system on which these are based.

In terms of conveyor technology, mk offers an extensive range of standardised conveyor types, supplemented with linear technology for precision handling applications.

Furthermore, mk is at hand to assist its customers with system solutions, from project planning and design to the commissioning of complete transfer systems.

Our services round off the product portfolio and include repairs, maintenance and a spare parts supply service.

With our dense production, sales and service network consisting of subsidiaries, sales partners and external service providers, we guarantee our customers fast access to our expert advice and outstanding products.

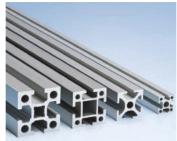
Overview of Sections

1



Notes

Benefits of mk ProfileTechnology Explanation of Symbols Shop and CAD Data



Profiles

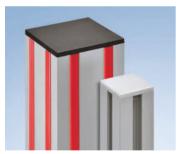
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Overview of Profiles
with Properties
Series D28 Profiles
Series 25 Profiles
Series 40 Profiles
Series 50 Profiles
Series 60 Profiles
Foamed Combined Profiles



Connecting Elements

12 Choosing a Connection 76 16 **Angle Fasteners** 78 Plate Fasteners 96 22 Internal Fasteners 106 38 Corner Block Joints 120 40 Profile Clamps 130 48 Connector Series D28 132 60 Nuts/T-nuts 138 66 Standard Parts 145



Covers/ Wear Strips

End Caps Closure Strips Cover Profiles Wear Strips Brush Strips



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Floor Elements

Levelling Feet

150

154 Plates for Levelling Feet
155 Floor Plates
156 Base Plates
160 Support Brackets
Fixed and Swivel Casters



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Stairs

Platforms

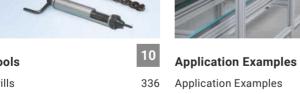
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Guarding











mk profile technology offers maximum flexibility and reliability.

Our profile technology consists of the proven, versatile mk profile system as the common base technology as well as the workshop and industrial applications that are based on this system.

Profile System

The modular mk profile system has the right profile, the right connection technology and the right accessories for every application. The system's flexible modular design provides virtually endless possibilities for custom-designed structures and solutions.

Guarding

Our guarding range is based on the mk profile system and offers functional machine housings, enclosures and protective fences. Their flexible, modular design ensures that systems, machines and production areas can be secured effectively and economically.

Workstation Set-Ups

Industrial workstations built from mk's profile system offer maximum ergonomics and functionality to optimise your employees' productivity. These workstations can be expanded into complete assembly lines including workstation interlinking to ensure optimised process flows.

Machine Frames and Platforms

Frames for machines and other systems are custom-manufactured and optimised for the customer's particular requirements and loads. Platforms with stairs offer safe access to various levels, whether mobile or stationary, to allow employees to maintain or work on machines and systems.



Benefits of mk **Profile Technology**

- Comprehensive profile system for maximum flexibility in all industries and applications
- No welding, abrasive grinding or painting necessary, unlike steel structures
- Sturdy profiles that combine high load capacity with attractive design
- Profiles and components can be reused
- 1 mm edge radius for virtually gap-free connections between profiles
- Sturdy and diverse connection technology with standard screws
- Online profile system shop with free CAD data
- Machine housings, enclosures and protective fences for effective and highly functional guarding of machines and systems
- Ergonomic industrial workstations built from mk profiles can be interlinked into assembly lines for maximum productivity
- Stairs and platforms for safe access to machines or production areas
- High degree of standardisation for short planning, design and assembly times
- Degree of assembly can be selected, from individual pieces, to assemblies, to custombuilt frames and complete applications
- Expert on-site consulting by mk sales engineers









Explanation of Symbols

Profile Series

These symbols indicate the profile series in which a connecting element or accessory component can be used. Connecting elements and accessory components without a series symbol can be used in all profile series. An assortment of connector pieces is available for the round tube profiles D28.

25 40 50 60 Series 25

25 40 50 60 Series 40

Series 40, limited compatibility 25 40 50 60 with Series 50

Series 50. limited compatibility 25 40 50 60 with Series 40

25 40 50 60 Series 50

25 40 50 60 Series 60



Curved Profiles

This symbol identifies select profiles that are also available in a curved variant. The number indicates the minimum possible inner radius in millimetres. The profiles can only be bent along the narrow side of the profile (horizontal bending axis).



ESD (Electrostatic Discharge)

Items labelled with the ESD symbol have a discharging or conductive design and are therefore suitable for used in ESD-sensitive areas or for creating ESD protection zones. These products guarantee a resistance to earth from the contact point of < 10¹¹ ohms. Common items include nuts/T-nuts, which have a conductive design with < 10² ohms.

Slot Widths

These symbols indicate the slot width of the profile or profile series in millimetres.







Screws

M5x8

M8x16

These symbols indicate the screws to be used (thread x length in mm). If screws compliant with a specific standard are required, this is also indicated.

M12x25

Cross References

The cross reference symbol with a corresponding page number refers you to complimentary products or information that can be found elsewhere in the catalogue.

Item Number and Name

When placing an order, please always provide the item number and the product name. Our profiles can be ordered in one of our stock lengths or cut to a custom length. The last four digits indicate the desired length in mm.

Name Profile mk 2040.01

Item number

54.01.

Length in mm (4 digits)

Profile ID number

Shop and CAD Data







24/7 Online Shop*

All products in our proven profile system are available to you after a one-time registration.

- Accessible from a computer, tablet or smartphone
- Products clearly organised into categories
- Images and product descriptions help you make your selection
- Search by name or item number
- Direct access to CAD data



CAD Data

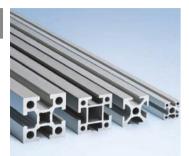
Reduce your planning and design time by using our CAD parts library.

- Online in our shop or from the Cadenas Part Community
- Free access to CAD data
- Native and neutral CAD formats for easy processing
- 3D models or 2D CAD drawings
- Can be imported directly into customers' CAD programs

^{*}Only for commercial customers in Germany and Austria

Section 2 Profiles

2



Choosing a Profile

Features of mk Aluminium Profiles Deflection Calculator Standards and Basic Information



Profile Services

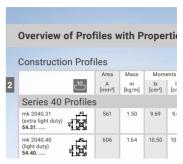
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Overview of End Services
End Services front side
End Services for Angle Braces
Curved Profiles



Overview of Profiles with Properties

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Series D28 Profiles

Basic Profiles



Series 25 Profiles

Basic Profiles 40 Series 25/40 Adapter Profiles 44 Profiles for Fastening Panelling 46



Series 40 Profiles

Basic Profiles 48
Cleanroom Profiles 54
Profiles for Fastening Panelling 57







Basic Profiles	60
Cleanroom Profiles	64
Profiles for Telescoping	65



Series 60 Profiles

Basic Profiles	66



Foamed Combined Profiles 69



Application Profiles

The application profiles are included in the profile overview, and some are addressed in more detail in various sections for specific topics; see the cross references in the profile overview.

Choosing a Profile

Features of mk Aluminium Profiles

With a large selection of profiles, divided into four series with grid dimensions of 25, 40, 50 and 60 mm, as well as the round tube profile series D28, we have the perfect profile for any application and for all load-capacity and design requirements. Our profiles are made from a high-quality aluminium alloy with an extremely durable anodised coating and employ connection technology designed to ensure maximum stability – for sturdiness and

dependability that is never in doubt, and without compromising on design. The can be used to construct anything from light-duty fixtures, structures and frames to load-bearing structures for machine construction applications. In addition to construction profiles, our portfolio also includes application profiles for a range of different purposes, e.g. for guarding and workstation set-ups and for conveyor frames and side rails for use in conveyor technology.

Overview of Profile Series

	Grid dimensions	Dimensions max.	Material	Application examples				
Series D28								
Q	ø 28 mm	ø 28 mm	EN AW 6063 T66 AIMgSi 0,5 F25	Supply trolley, shelves, lightweight frames, exten- sions for workstations				
		Series 2	25					
6	25 x 25 mm	25 x 150 mm or 50 x 50 mm	EN AW 6063 T66 AIMgSi 0,5 F25	Light-duty frames, cabinets, test set-ups, measurement and test units				
		Series 4	.0					
10	40 x 40 mm	160 x 160 mm	EN AW 6063 T66 AIMgSi 0,5 F25	Moderate to light-duty machine frames, guarding, industrial work-stations, exhibit construction				
		Series 5	0					
10 11	50 x 50 mm	50 x 200 mm or 100 x 100 mm	EN AW 6005A T6 AIMgSi 0,7 F27*	Machine frames, load-bearing structures				
		Series 6	0					
14	60 x 60 mm	120 x 240 mm	EN AW 6005A T6 AIMgSi 0,7 F27*	Machine frames under very high loads, gantries				



Deflection Calculator

Will your profile structure withstand the loads it is meant to support? Find out quickly and conveniently using our online tool for calculating the deflection of mk profiles as a function of load. The following formulas are used for the calculation.

$$\sigma_b = \frac{M_{bmax}}{W_{x,y}}$$

$$S = \frac{R_{p0.2}}{\sigma_b}$$

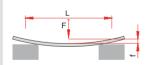
$$R_{p0.2}$$
 = 200 N/mm² (AIMgSi 0.5 F25)

 $R_{p0.2} = 215 \text{ N/mm}^2 \text{ (AlMgSi 0.7 F27)}$



www.mk-group.com/en/deflection

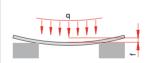
Load scenario 1 (profile on two supports, flexible joints)



$$M_{bmax} = \frac{F \cdot L}{4}$$

$$M_{bmax} = \frac{F \cdot L}{4}$$

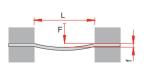
$$f = \frac{F \cdot L^3}{48 \cdot E \cdot I_{x,y}}$$



$$M_{bmax} = \frac{q \cdot L^2}{8}$$

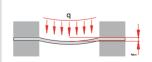
$$f = \frac{5}{384} \cdot \frac{q \cdot L^4}{E \cdot I_{x,y}}$$

Load scenario 2 (profile on two supports, clamped at both ends)



$$M_{bmax} = \frac{F \cdot L}{8}$$

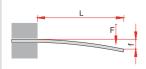
$$f = \frac{F \cdot L^3}{192 \cdot E \cdot I_{x,y}}$$



$$M_{bmax} = \frac{q \cdot L^2}{12}$$

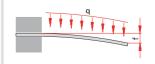
$$f = \frac{q \cdot L^4}{384 \cdot E \cdot I_{x,y}}$$

Load scenario 3 (profile clamped at one end)



$$M_{bmax} = F \cdot L$$

$$f = \frac{F \cdot L^3}{3 \cdot E \cdot I_{x,y}}$$



$$M_{bmax} = \frac{q \cdot L^2}{2}$$

$$f = \frac{q \cdot L^4}{8 \cdot F \cdot L_{yy}}$$

Choosing a Profile

Standards and Basic Information

The profiles are made from extruded aluminium and are available in a standard length of 5100 mm. They can also be cut to length. Lengths in excess of the standard length are available on request. All construction profiles are pretreated with the E6 chemical process, which removes grooves and scratches in the surface. The profiles are anodised

with a coating that is approx. 10 µm thick and with colour C0 (natural colour). The coating is resistant to acids and bases (alkali bases up to pH 9.5 and acids up to pH 4). The values shown in the table below are the highest permissible deviations as specified in the standard.

Materials of mk Profiles

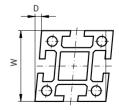
According to DIN EN 755-2

mk generally uses two different materials for its profile technology. AIMgSi 0.5 F25 is used for Series 25 and 40, and AIMgSi 0.7 F27 is primarily used for Series 50 and 60, which exhibits 7% higher strength.

Material name according to DIN EN	EN AW 6063 T66 AlMg0.7Si	EN AW 6005A T6 AlSiMg(A)		
Material abbreviation according to DIN 1725-1 Material number			AlMgSi 0.5 F25 3.3206.72	AlMgSi 0.7 F27 3.3210.71
Density	ρ	g/cm³	2.7	2.7
Elastic modulus	E	N/mm²	70,000	70,000
Tensile strength	Rm	N/mm²	245	270
0.2% offset yield stress	Rp _{0.2}	N/mm²	200	215
Elongation at break	A5	%	8	8
Brinell hardness	НВ		80	85
Coefficient of thermal expansion (up to 20° C/up to 293° K) (20°-100°C/293°-373°K)	α	1/K	21.8*10 ⁻⁶ 23.2*10 ⁻⁶	21.8*10 ⁻⁶ 23.2*10 ⁻⁶
Thermal conductivity	λ	W/(m*K)	200-220	180-220
Electrical conductivity (20° C/293° K)	к	$m/(\Omega^*mm^2)$	28-34	26-32

Squareness Tolerance*

	W (mm) nge	Squareness tolerance for cross section D (mm)
over	up to	for cross section b (fillin)
_	40	0.20
40	60	0.30
60	90	0.40
90	120	0.45
120	150	0.55
150	180	0.65
180	210	0.70

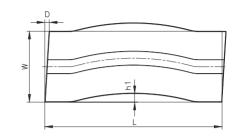


Profiles may exhibit web marks. Tolerances for flatness and contour deviations available on request.



Straightness Tolerance*

The straightness tolerance h_1 must not exceed the values in the table for a given length; the deviation must also not exceed 0.3 mm over a distance of 300 mm.



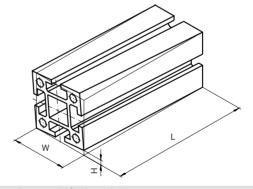
Length L	up to 1000	up to 2000	up to 3000	up to 4000	up to 5000	up to 6000	over 6000
Tolerance h ₁	0.7	1.3	1.8	2.2	2.6	3	3.5

Tolerances for Cut Profiles*

Length L	up to 500	up to 1000	up to 2000	up to 6000
Tolerance	± 0.5	± 0.8	± 1.2	± 2.0
Width W	up to 50	up to 100	up to 200	up to 300
Angular tolerance D	0.2 mm	0.4 mm	0.8 mm	1.2 mm

If the length tolerances above are insufficient, optional machining of the profile face is also available.

Twisting



Wid	th W	Twisting tolerance H for lengths L						
over	up to	up to 1000	over 1000 up to 2000	over 2000 up to 3000	over 3000 up to 4000	over 4000 up to 5000	over 5000 up to 6000	over 6000
_	25	1.0	1.5	1.5	2.0	2.0	2.0	
25	50	1.0	1.2	1.5	1.8	2.0	2.0	
50	75	1.0	1.2	1.2	1.5	2.0	2.0	
75	100	1.0	1.2	1.5	2.0	2.2	2.5	As agreed
100	125	1.0	1.5	1.8	2.2	2.5	3.0	As agreeu
125	150	1.2	1.5	1.8	2.2	2.5	3.0	
150	200	1.5	1.8	2.2	2.6	3.0	3.5	
200	300	1.8	2.5	3.0	3.5	4.0	4.5	

^{*} According to DIN 171615 or DIN EN 12020



Profile Services

Overview of End Services

To achieve positive-locked connections, the ends of profiles often need to be machined. For example, bores may have to be drilled for tension plugs, or profiles may need to be mitre-cut. Below are diagrams showing the various end services options.

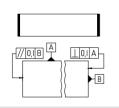
The subsequent section presents the most common end services option for each profile, along with the item number. Other end services options are possible and can be delivered on request.

Note

Our online shop and our CAD library let you conveniently select and order end services options as well as the corresponding CAD data (www.aluprofil.shop).

End Services Legend

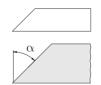
Facing

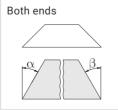


The profile face can also be machined to provide a more exact right angle.

Mitre Cutting

One end

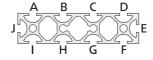




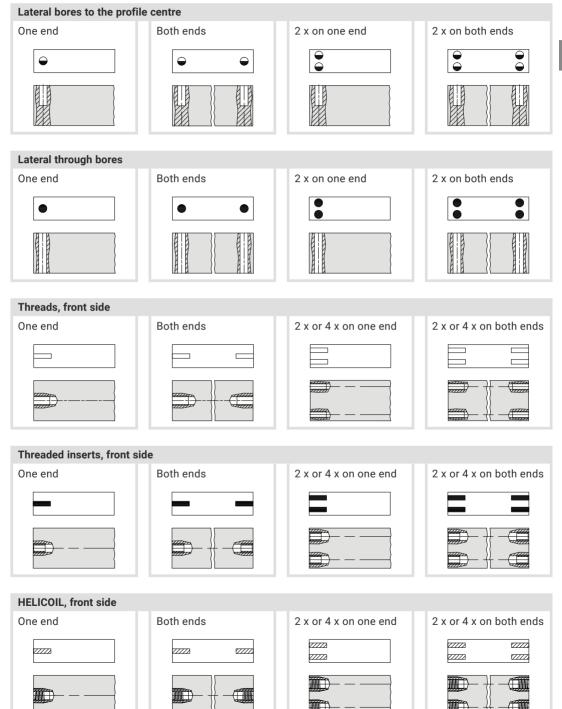
For non-square cross sections, mitre cuts are made on the long side as standard. For mitre cuts on both ends, the cuts are always in opposing directions, as shown here. Other mitre cuts according to a drawing are available on request.

For lateral bores, you have to indicate the positions of the bores, i.e. the particular slots:

Example for mk 2040.06 profile







Profile Services

End Services Front Side						
Series 25	Series 40	Series 50	Series 60			
M10 M10	M12	8W8	M16 M16			
M5 or M10 thread	M12 thread M8 for extra light duty	M8 thread	M12 or M16 thread Reduced load capacity with M16 thread			
MA WAS	O LWI O	SE SON SE	O TWI			
M4 HELICOIL K112030104 M8 HELICOIL K112030109	M10 HELICOIL K112030110	M6 HELICOIL K112030106	M10 HELICOIL K112030110			
M66	8WW	SW S	MI12			
M3 threaded insert K112030002 M6 threaded insert K112030006	M8 threaded insert K112030008	M5 threaded insert K112030005	M8 threaded insert K112030008 M12 threaded insert K112030010			



End Services Front Side

Below is an overview of the taps and installation tools needed for end services, as well as the necessary threaded inserts and HELICOILs. The machining can be done with a hand-held drill. The installation tools are meant to be used by hand.

Threaded inser HELICOIL	t/	Series	Bore channel ø [mm]	Tool		Thread depth [mm]
M5 thread		25	4.2	M5 tap	K903060005	15
M10 thread		25	8.5	M10 tap	K903060010	30
M3 threaded insert	K112030002	25	4.2	M5x0.5 mm tap, installation tool	K903060105 K902010004	10
M6 threaded insert	K112030006	25	8.5	M9x1 mm tap, installation tool	K903060109 K902010010	15
M4 HELICOIL	K112030104	25	4.2	M4 HELICOIL tap, installation tool	K903060204 K902010204	10
M8 HELICOIL	K112030109	25	8.5	M8 HELICOIL tap, installation tool	K903060208 K902010208	15
M8 thread		40 extra light duty	7.4	M8 forming tap	K903070008	20
M12 thread		40	10.0	M12 tap	K903060012	35
M8 threaded insert	K112030008	40/60	10,0/10,5	M12x1.5 mm tap, installation tool	K903060113 K902010012	20
M10 HELICOIL	K112030110	40/60	10,0/10,5	M10 HELICOIL tap, installation tool	K903060210 K902010210	20
M8 thread		50	7.0	M8 tap	K903060008	25
M5 threaded insert	K112030005	50	7.0	M8x1 mm tap, installation tool	K903060108 K902010008	15
M6 HELICOIL	K112030106	50	7.0	M6 HELICOIL tap, installation tool	K903060206 K902010206	15
M12 thread		60	10.5	M12 tap	K903060012	35
M16 thread		60	14.5	M16 tap	K903060016	45
M12 threaded insert	K112030010	60	14.5	M16x1.5 mm tap, installation tool	K903060116 K902010016	25

Nut 1 M8, galvanised steel, 34.01.0001 Ribbed washer ø 8.4, galvanised steel, K111010017 Cylinder head screw M8x20, DIN 912, D0912820 mk 2040.02, 5402CA*

Profile Services

End Services for Angle Braces

Angle braces are a simple option for lending higher stability to a profile structure under heavy loads. The angle braces are installed using cylinder head screws and nuts, making them suitable for later installation into existing systems. End services includes the 45° mitre cuts on both ends and the bores for inserting the cylinder head screws. You can choose between angle brace 1, built from the mk 2040.01 profile (40 x 40 mm), and angle brace 2, built from the mk 2040.02 profile (40 x 80 mm), in stock lengths of 200, 300, 400 and 500 mm.

Material: anodised aluminium

M8x20

Angle brace 01 (profile mk 2040.01)

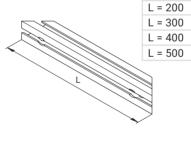
5401CC0200

5401CC0300

5401CC0400

5401CC0500

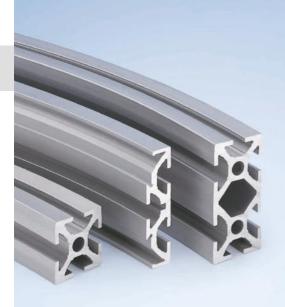
5401CC



Angle brace 02 (mk 2040.02)

5402CA

L = 200	5402CA0200
L = 300	5402CA0300
L = 400	5402CA0400
L = 500	5402CA0500





Curved Profiles

Selected profiles are also available in a curved variant. Profiles with this curved option are labelled with the corresponding symbol. The number indicates the minimum inner radius in millimetres. The profiles can only be bent along the narrow side of the profile (horizontal bending axis).

Information required for ordering (example for mk 2040.01 profile)

■ Profile ID number: **54.01**. ■ Inner radius R: **250 mm**

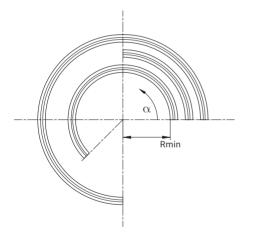
 \blacksquare Angle α : 180°











		Area	Mass	Mom	ents of ir	ertia	Sec	ction mo	duli	
	6	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Series D2	28 Profile	es								
mk 2279 52.79	28	235	0,63	1,44	1,32	-	1,07	0,99	-	38
mk 2280 52.80	28	245	0,67	1,64	1,54	-	1,17	1,10	-	38
Series 25	Profiles	3								
mk 2025.01 25.01	25	279	0,75	1,73	1,73	0,40	1,38	1,38	0,38	40
mk 2025.31 25.31	25	284	0,77	1,73	1,62	0,46	1,42	1,29	0,32	46
mk 2025.35 25.35	25 52 7	275	0,75	1,71	1,68	-	1,38	1,34	-	46
mk 2025.37 25.37	25	267	0,73	1,32	1,28	-	1,14	1,12	-	47
mk 2025.38 25.38	25	290	0,79	1,52	1,48	-	1,27	1,25	-	47
mk 2025.02 25.02	52	501	1,35	12,20	3,30	2,20	4,87	2,64	1,25	41
mk 2025.32 25.32	50	475	1,29	3,22	12,00	-	2,60	4,81	-	47
mk 2025.36 25.36	52 Q Q	462	1,25	3,12	11,90	-	2,58	4,81	-	47
mk 2025.39 25.39	50	407	1,10	2,05	9,44	-	1,81	3,77	-	47



	Area Mass Moments of inertia Section moduli								
	Area	Mass							
<u>6</u>	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Series 25 Profiles	8								
mk 2025.03 100 25.03	945	2,55	87,00	6,44	6,53	17,40	5,15	3,03	41
mk 2025.22 25.22	837	2,26	64,30	5,84	-	12,90	4,67	-	42
mk 2025.04 25.04	1390	3,75	280,00	9,58	11,00	37,30	7,66	4,64	41
mk 2025.05 25.05	816	2,21	22,30	22,30	11,90	8,90	8,90	3,91	41
mk 2025.18 25.18 355	376	1,02	3,72	5,06	-	1,77	2,14	-	47
mk 2025.20 25.20	783	2,12	15,50	15,50	8,62	6,20	5,45	2,13	43
mk 2025.21 25.21	1100	2,98	43,60	43,60	27,20	12,50	12,50	5,00	43
Series 25/40 Ada	pter P	rofiles	S						
mk 2025.41 25.41	377	1,02	6,20	1,49	-	3,10	1,39	-	44
mk 2025.42 25.42	717	1,94	42,50	2,97	-	10,60	2,88	-	44
mk 2025.43 120 25.43	1060	2,86	136,00	4,44	-	22,70	4,37	-	45
mk 2025.44 25.44	1400	3,77	315,00	5,90	-	39,30	5,86	-	45

		Area	Mass	Mom	ents of in	ertia	Sec	ction mo	duli	
	c10_	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Series 40	Profiles	3								
mk 2040.31 (extra light duty) 54.31	40	561	1,50	9,69	9,69	0,66	4,84	4,84	0,53	48
mk 2040.40 (light duty) 54.40	40	606	1,64	10,50	10,50	0,79	5,26	5,26	0,57	49
mk 2040.01 54.01	40	742	2,00	12,10	12,10	1,17	6,06	6,06	0,98	49
mk 2040.92 54.92	40	623	1,68	11,00	10,60	1,83	5,40	5,28	0,74	54
mk 2040.93 54.93	40	634	1,72	11,00	11,00	2,91	5,40	5,40	1,28	54
mk 2040.94 54.94	40	634	1,72	11,40	10,50	3,86	5,73	5,28	1,19	54
mk 2040.95 54.95	40	647	1,75	11,00	11,40	6,04	5,41	5,74	1,40	55
mk 2040.96 54.96.	40	659	1,78	11,50	11,50	-	5,74	5,74	-	55
mk 2040.16 54.16.	40	463	1,25	5,28	6,22	_	2,87	3,11	_	55
mk 2040.21 54.21	40	685	1,84	11,00	10,20	2,60	5,42	5,10	1,28	57
mk 2040.11 54.11	40	696	1,88	11,10	11,10	3,36	5,50	5,50	1,35	57
mk 2040.14 54.14	40	604	1,62	8,30	8,30	-	4,75	4,75	-	58



	Area	Mass	Mass Moments of inertia			Sec	ction mo	duli	
c ¹⁰	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Series 40 Profiles	8								
mk 2040.15 54.15	561	1,51	7,85	7,85	-	4,54	4,54	-	58
mk 2040.52 (extra light duty) 54.52.	988	2,67	64,10	17,50	-	16,00	8,76	-	50
mk 2040.41 (light duty) 54.41	1160	2,85	68,90	18,70	6,65	17,20	9,33	2,70	50
mk 2040.02 54.02	1340	3,62	83,30	22,60	12,60	20,80	11,30	5,16	51
mk 2040.100 54.100	1090	2,94	70,80	19,70	12,90	17,70	9,63	2,61	55
mk 2040.101 54.101	1100	2,97	72,70	19,70	14,10	18,00	9,64	2,66	55
mk 2040.104 54.104	1140	3,07	75,50	20,60	30,60	18,80	10,30	3,26	55
mk 2040.22 54.22	1270	3,43	75,50	21,50	18,80	18,90	10,70	3,37	58
mk 2040.12 80 54.12	1270	3,43	77,90	21,40	22,00	19,90	10,90	2,59	58
mk 2040.05 120 54.05	1740	4,69	257,00	31,60	19,70	43,70	15,80	6,24	52
mk 2040.06 54.06. 160	2320	6,26	576,00	41,40	37,50	72,00	20,70	11,20	52

		Area	Mass	Mom	ents of ir	nertia	Sec	tion mo	duli	
	c ¹⁰	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Series 40	Profiles	3								
mk 2040.45 (light duty) 54.45.	80	1760	4.75	127.90	128.00	53.70	31.90	31.90	9.88	51
mk 2040.03 54.03.	88	2060	5.57	150.00	150.00	88.70	37.40	37.40	12.30	51
mk 2040.73 54.73.		2110	5.72	150.00	150.00	80.50	37.10	37.40	12.30	52
mk 2040.109 54.109.	80	1860	5.04	138.00	138.00	145.00	34.50	34.50	7.47	55
mk 2040.46 54.46	80	2020	5.44	145.00	146.00	79.40	35.60	36.40	9.27	59
mk 2040.13 54.13.	80	1970	5.32	142.00	142.00	-	36.00	36.00	_	59
mk 2040.07 54.07	120	2580	6.96	441.00	208.00	146.00	73.40	52.10	18.20	52
mk 2040.08 54.08	160	3500	9.46	949.00	272.00	321.00	119.00	68.00	29.00	53
mk 2040.10 54.10	120	3060	8.26	585.00	585.00	312.00	97.50	97.50	31.80	53



		Area	Mass	Mom	ents of ir	ertia	Sec	tion mo	duli	
	c10_	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Series 40) Profiles	;								
mk 2040.09 54.09	160	4220	11.40	-	_	_	_	-	_	53
mk 2040.04 54.04	8 40	1340	3.61	71.80	71.80	6.51	18.80	18.80	3.00	59
mk 2040.19 54.19.	135	943	2.54	22.10	30.50	_	6.64	8.10	_	59

		Area	Mass	Mome	ents of ir	nertia	Sec	ction mo	duli	
	¹⁰	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Series 50 F	Profiles	3								
mk 2001 51.01.	25 05 05	542	1.49	14.30	2.67	-	5.70	1.82	-	61
mk 2030 51.30.	30	394	1.06	3.12	4.45	-	2.08	2.96	-	61
mk 2002 (extra light duty) 51.02.	05	693	1.75	19.60	19.60	-	7.83	7.83	-	61
mk 2014 (light duty) 51.14.	50	760	1.98	21.20	21.20	2.96	8.51	8.51	1.91	61
mk 2000 51.00.	50	1080	2.85	29.90	29.90	5.23	12.00	12.00	2.85	61
mk 2019 51.19	50	1100	3.00	30.60	30.00	-	12.10	11.90	-	64
mk 2018 51.18.	50	1110	3.00	30.60	30.60	-	12.10	12.10	-	64
mk 2017 51.17.	50	1120	3.03	30.60	31.30	16.10	12.10	12.50	2.70	64
mk 2003 51.03.	50	762	2.00	14.00	14.00	-	6.49	6.49	-	61
mk 2023 51.23.	75	1400	3.78	89.30	39.60	-	23.80	15.80	-	62
mk 2004 51.04.	100	1810	4.87	200.00	55.40	24.40	40.00	22.10	6.39	62
mk 2006 51.06.	150	2600	7.00	597.00	80.50	49.20	79.70	32.10	13.20	63



	Area	Mass	Mome	ents of ir	nertia	Sec	ction mo	duli	
c ¹⁰	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Series 50 Profiles									
mk 2008 51.08 200	3370	9.09	1300.00	107.00	72.70	130.00	42.70	17.50	63
mk 2005 (light duty) 51.05	2650	7.00	335.00	335.00	153.00	67.00	67.00	18.10	62
mk 2011 51.11	3670	9.70	383.00	383.00	226.00	76.70	76.70	26.50	63
mk 2009 51.09	2320	6.27	239.00	239.00	-	42.00	42.00	_	62
mk 2072 51.72	1710	4.62	152.00	152.00	-	28.70	28.70	_	63
mk 2031 51.31	1120	2.85	79.20	55.60	-	23.20	18.50	-	65
mk 2033 51.33	554	1.50	5.22	27.70	-	4.94	9.24	_	65

	Area	Mass	Mome	ents of in	ertia	Sec	ction mod	duli	
	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Series 60 Profiles									
mk 2060.01 60.01	1600	4.31	60.20	60.20	7.18	20.00	20.00	3.05	67
mk 2060.02 120 60.02	2580	6.95	404.00	103.00	50.20	67.30	34.50	9.13	67
mk 2060.03 60.03	3540	9.57	1210.00	147.00	70.70	134.00	48.90	22.30	67
mk 2060.04 60.04	4520	12.20	2660.00	190.00	155.00	221.00	63.30	25.60	67
mk 2060.05 60.05.	3800	10.30	660.00	660.00	225.00	110.00	110.00	31.90	68
mk 2060.07 60.07.	6700	18.10	4090.00	1180.00	591.00	340.00	169.00	58.30	68



	Area Mass Moments of inertia					Sec	ction mo	duli	
	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Profiles for Foam	ed Co	mbine	ed Pro	files					
mk 2040.72 54.72.	1140	3,09	-	-	-	-	-	-	70
mk 2040.90 54.90.	1340	3,64	-	-	-	-	-	-	71
mk 2067 51.67.	935	2,48	112,00	2,25	-	18,6	2,80	-	72
mk 2060.41 60.41	2240	6,04	718,00	12,70	-	70,40	10,20	-	73

Application Profiles

	Area	Mass	Mom	Moments of inertia			Section moduli		
	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Cover Profiles									
mk 2040.43 54.43	151	0.41	-	_	-	_	-	_	194
mk 2040.42 54.42	251	0.68	-	_	-	-	-	-	194
mk 2040.44 123 54.44	316	0.85	-	_	_	_	-	_	194
mk 2040.85 54.85.	344	0.93	-	-	-	-	-	-	195
mk 2040.50 54.50	189	0.51	-	-	-	-	-	-	202
mk 2040.51 54.51	249	0.67	-	_	-	-	-	-	202
mk 2050 51.50	158	0.43	-	_	-	_	-	_	202
mk 2051 51.51	203	0.56	-	_	-	-	-	_	202



		Area	Mass	Moments of inertia			Section moduli			
		A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page
Closure St	trips									
mk 2225 52.25	10	29	0.08	-	_	-	_	-	-	154
mk 2060.30 60.30.	16	55	0.15	-	_	-	_	-	-	154
Profiles fo	r Panell	ing								
mk 2206 52.06	4	52	0.14	-	_	-	-	-	-	246
mk 2207 52.07		102	0.28	-	-	-	-	-	-	246
mk 2203 52.03	28	130	0.37	-	-	-	-	-	-	246
mk 2210 52.10.	4	93	0.25	-	_	-	-	-	-	246
mk 2211 52.11	φ 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	174	0.47	-	_	-	-	-	-	246
mk 2214 52.14	4	91	0.25	-	_	_	_	_	_	246
mk 2215 52.15	0	174	0.47	-	_	_	_	_	_	246
mk 2040.60 54.60.	32	120	0.32	-	_	_	_	-	_	251
mk 2220 52.20	752	119	0.32	-	_	_	_	-	-	254

Application Profiles

		Area	Mass	Moments of inertia			Section moduli				
		A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page	
Profiles for Industrial Workstations											
mk 2040.36 54.36.	40	1050	2.83	17.50	17.50	27.20	8.75	8.75	8.02	316	
mk 2040.37 54.37	47 <u>50</u>	426	1.17	2.74	14.60	-	1.09	9.73	-	317	
mk 2040.38 54.38.	50	933	2.52	43.10	32.40	26.00	13.60	13.00	3.65	317	
mk 2040.39 54.39.		1110	3.00	49.90	49.90	28.60	16.30	16.30	4.18	317	
mk 2040.74 54.74	70	1300	3.50	74.30	56.40	32.80	21.20	18.70	4.83	317	
mk 2040.75 54.75.	70	1120	3.01	68.40	38.60	30.80	27.30	11.00	4.04	317	
mk 2040.23 54.23	4 5 3	785	2.12	42.60	12.00	-	10.70	5.90	-	318	
mk 2040.34 54.34.	120	1310	3.56	140.00	24.10	28.30	23.50	12.00	4.67	318	
mk 2040.30 54.30	120 5 40	1590	4.29	234.00	67.10	-	39.10	21.30	-	318	
mk 2040.33 54.33	120	1170	3.15	162.00	14.00	_	27.30	9.66	_	318	
mk 2040.70 54.70	250	1310	3.53	-	-	-	-	-	-	319	
mk 2040.35 54.35	2 75 ST	593	1.60	19.20	3.16	-	6.40	2.50	-	318	



		Area	Mass	Moments of inertia			Section moduli				
		A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page	
Profiles for Sliding Doors and Windows											
mk 2240 52.40.	φ [1] 27	173	0.47	-	_	-	-	-	-	237	
mk 2241 52.41	<u>ω</u> 40	248	0.67	-	-	-	-	-	-	237	
mk 2245 52.45	0G 40	569	1.54	14.40	12.70	-	4.86	6.33	-	226/ 303	
mk 2244 52.44.	40	321	0.87	-	_	-	_	-	_	279	
Profiles	for Stairs	and F	Platfor	ms							
mk 2040.68 54.68.	100	878	2.37	-	14.2	-	-	8.71	_	327	
mk 2040.69 54.69.	150	1063	2.87	-	16.8	-	-	11.74	-	327	
Profiles	for Conve	yor Te	echnol	ogy*							
mk 2075 51.75.	75	830	2.24	49.60	6.81	-	13.20	5.34	_	СТ	
mk 2100 51.76.	100	980	2.65	103.00	8.00	-	20.60	6.49	-	СТ	
mk 2150 51.77.	150	1370	3.70	607.00	10.50	-	40.90	8.97	-	СТ	
mk 2045.41 45.41	45 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	563	1.52	11.20	11.20	-	5.00	5.00	-	СТ	

^{*} See conveyor technology catalogue (CT)

Application Profiles

	Area	Mass	Moments of inertia			Section moduli					
	A [mm²]	m [kg/m]	lx [cm ⁴]	ly [cm ⁴]	It [cm ⁴]	Wx [cm³]	Wy [cm³]	Wp [cm³]	Page		
Profiles for Conveyor Technology*											
mk 2045.42 45.42	956	2.58	79.20	19.80	-	17.60	8.80	-	СТ		
mk 2026 51.26	1310	3.56	172.00	32.80	-	34.50	10.30	-	СТ		
mk 2027 51.27	1520	4.10	476.00	37.40	_	63.50	11.00	_	СТ		
mk 2007 51.07	2381	6.42	622.00	48.70	5.07	83.00	27.40	4.02	СТ		
mk 2028 51.28.	1710	4.64	969.00	40.90	_	96.90	11.50	-	СТ		
mk 2024 51.24	3140	8.48	2210.00	121.00	_	177.00	48.70	_	СТ		
mk 2251 52.51	1340	3.62	81.80	35.80	-	20.40	13.30	-	СТ		
mk 2040.80 54.80	679	1.83	2.40	36.30	-	2.76	9.06	_	СТ		
mk 2040.86 54.86.	1074	2.90	122.00	4.12	-	20.3	4.47	-	СТ		
mk 2010 51.10	1800	4.87	193.00	51.40	10.60	38.30	19.90	4.89	СТ		
mk 2012 51.12	2840	7.67	502.00	118.00	68.40	71.90	39.40	10.20	СТ		



	Area	Mass	Mom	ents of i	nertia	Soc	ction mod	duli	
	Alea			ly	It	Wx	Wy		Dogo
	[mm²]	m [kg/m]	lx [cm ⁴]	[cm ⁴]	[cm ⁴]	[cm³]	[cm³]	Wp [cm³]	Page
Profiles for Conve	eyor Te	echnol	logy*						
mk 2254 52.54. 8	767	2.08	56.60	2.88	-	11.90	2.44	_	СТ
mk 2065 51.65	627	1.68	39.80	4.23	-	11.70	4.63	_	СТ
mk 2066 51.66.	877	2.36	98.70	6.15	-	19.70	6.40	_	СТ
mk 2255 52.55.	906	2.45	182.00	16.50	-	29.00	6.27	_	СТ
mk 2086 51.86	616	1.64	_	_	-	-	-	-	СТ
mk 2060 51.60	1245	3.24	88.10	25.80	-	22.00	12.50	-	СТ
mk 2061 51.61	2280	6.17	595.00	57.60	25.90	79.30	26.30	8.76	СТ
mk 2238 52.38	148	0.40	_	_	-	_	-	-	СТ
mk 2239 52.39	138	0.37	_	_	-	_	-	_	СТ
mk 2260 52.60	428	1.16	1.75	7.5	-	1.36	3.54	_	СТ

^{*} See conveyor technology catalogue (CT)



Series D28 Profiles

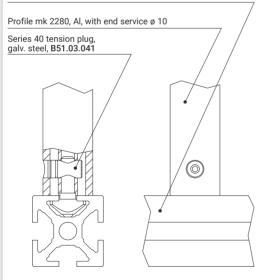
Basic Profiles

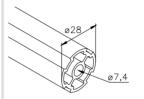
Series D28 round tube profiles have a diameter of 28 mm and a centre bore channel of 7.4 mm. They are compatible with mk Series 40 profiles and can be connected with an adapter or tension plug. They can be used for constructing equipment such as lightweight frames, supply trolleys, shelves or extensions for workstations. The optimised contour provides the system with excellent moments of inertia and section moduli.

Material: Anodised aluminium

Fastening example

Profile mk 2040.01, Al





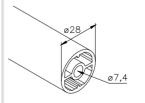
Profile mk 2279

0.63 kg/m

Stock length	52.79.5100
Cut	52.79

M8 thread possible

End service		Item no.
•	ø10	5279BV
e e	ø10	5279BW
	M8	5279AA
	M8	5279AB



Profile mk 2280

0.67 kg/m

Stock length	52.80.5100
Cut	52.80

M8 thread possible

End service	Item no.
● ø10	5280BV
● ● Ø10	5280BW
<u></u>	5280AA
<u>⊨</u> <u></u> M8	5280AB

2

Notes





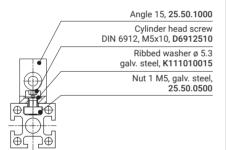
Series 25 Profiles

Basic Profiles

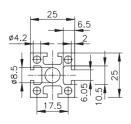
Series 25 profiles are based on a grid dimension of 25×25 mm. They are generally used for light-duty frames, cabinets, test set-ups, measurement and test units, as well as electronics housings. The slot width of 6 mm and slot depth of 6.5 mm are designed for use with DIN M5 screws. However, M4 and M6 screws can also be used. The profile's bore channels are designed for tapping threads or for inserting a threaded insert or HELICOIL.

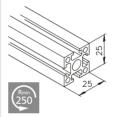
Material: Anodised aluminium

Example of fastening with an angle



Standard profile dimensions for the example of mk 2025.01





Profile mk 2025.01

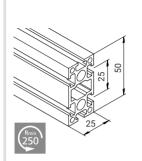
0.75 kg/m

Stock length	25.01.5100
Cut	25.01

End servic	e	Item no.
	α	2501AE
	α and β	2501AF
•	ø 5.8	2501BA
₽ ₽	ø 5.8	2501BB
	M10	2501AA
	M10	2501AB
	4 x M5	2501AD
	M6	B25.01.002
220 022	M8	B25.01.011





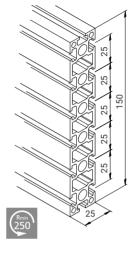


Profile mk 2025.02

1.35 kg/m

Stock length	25.02.5100
Cut	25.02

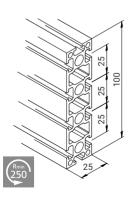
End servic	e	Item no.
	α and β	2502AF
•	ø 5.8	2502BA
9 9	ø 5.8	2502BB
	M10	2502AC
	M10	2502AD
= =	M6	B25.02.002
222 022 223 222	M8	B25.02.011



Profile mk 2025.04

3.75 kg/m

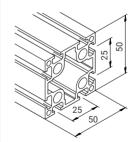
Stock length	25.04.5100
Cut	25.04



Profile mk 2025.03

2.55 kg/m

Stock length	25.03.5100
Cut	25.03



Profile mk 2025.05

2.21 kg/m

Stock length	25.05.5100
Cut	25.05

End servic	е	Item no.
	α and β	2505AF
= =	4 x M6	B25.05.002



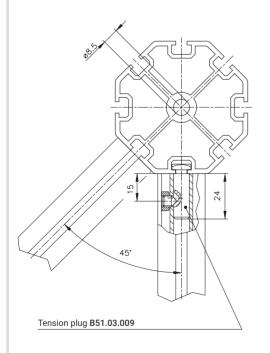
Series 25 Profiles

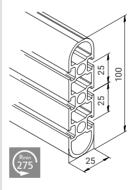
Basic Profiles

Typical applications include trade fair construction, variable partitions, frames or applications where the profiles need to be 45° or 60° apart.

Material: Anodised aluminium

Example of fastening with a tension plug





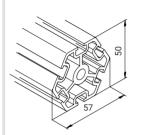
Profile mk 2025.22

2.26 kg/m

Stock length	25.22.5100
Cut	25.22





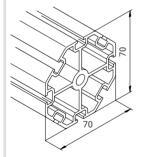


Profile mk 2025.20

2.12 kg/m

Stock length	25.20.5100
Cut	25.20

End service	е	Item no.
	M10	2520AB
	M6	B25.20.002
223 222	M8	B25.20.011

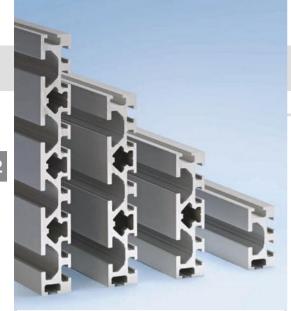


Profile mk 2025.21

2.98 kg/m

Stock length	25.21.5100
Cut	25.21

End servic	е	Item no.
	M10	2521AB
_ =	M6	B25.21.002
	M8	B25.21.011



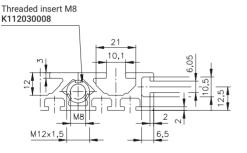
Series 25 Profiles

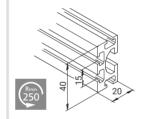
Series 25/40 Adapter Profiles

One side of the profile has a slot width of 6 mm for Series 25 and the other has a slot width of 10 mm for Series 40. Applications include base plates for laboratory benches or test set-ups as well as general structures that combine Series 25 and 40 profiles.

Material: Anodised aluminium

Standard dimensions with threaded insert

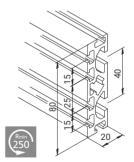




Profile mk 2025.41

1.02 kg/m

Stock length	25.41.5100
Cut	25.41



Profile mk 2025.42

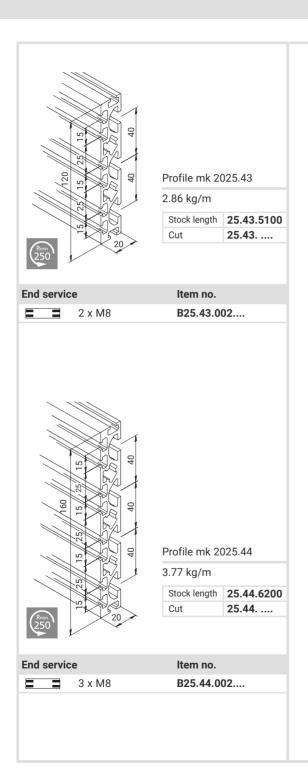
1.94 kg/m

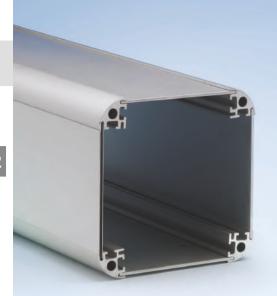
Stock length	25.42.5100
Cut	25.42

End service	Item no.
<u>−</u> M8	B25.42.002









Series 25 Profiles

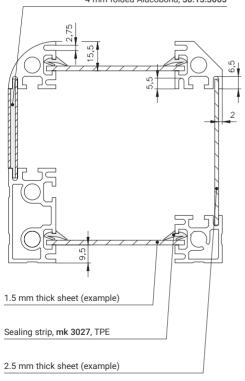
Profiles for Fastening Panelling

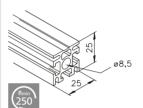
mk Series 25 profiles with closed slots have, in addition to the system slot, a second, smaller slot for attaching panelling.

Material: Anodised aluminium

Example of fastening with panelling







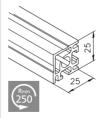
Profile mk 2025.31

0.77 kg/m

 Stock length
 25.31.5100

 Cut
 25.31.

End service Item no.	
● Ø 5.8 2531BA	
• • ø 5.8 2531BB	
■ M6 B25.31.002	



Profile mk 2025.35

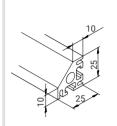
0.75 kg/m

Stock length	25.35.5100
Cut	25.35

End service	Item no.
e e ø 5.8	2535BB
■ M6	B25.35.002



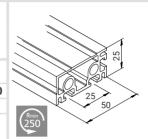




Profile mk 2025.38

0.79 kg/m

Stock length	25.38.5100
Cut	25.38



Profile mk 2025.36

1.25 kg/m

Stock length	25.36.5100
Cut	25.36

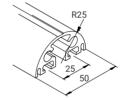
End service	Item no.	End service	Item no.
• • ø 5.8	2538BB	§ \$ 0 5.8	2536BB
■ M6	B25.38.002	■ ■ M6	B25.36.002



Profile mk 2025.37

0.73 kg/m

Stock length	25.37.5100
Cut	25.37

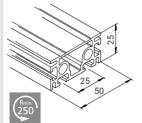


Profile mk 2025.39

1.1 kg/m

Stock length	25.39.5100
Cut	25.39

End service	Item no.	End service	Item no.
● ● Ø 5.8	2537BB	ø 5.8	2539BB
■ M6	B25.37.002	■ ■ M6	B25.39.002

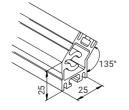


Profile mk 2025.32

1.29 kg/m

Stock length	25.32.5100
Cut	25.32

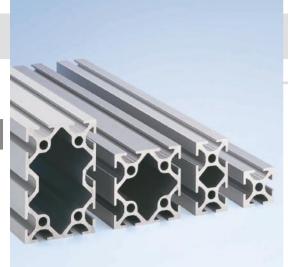
End servic	e	Item no.
0 0	ø 5.8	2532BB
= =	M6	B25.32.004



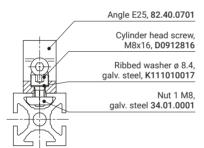
Profile mk 2025.18

1.02 kg/m

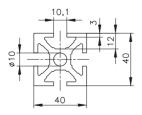
Stock length	25.18.5100
Cut	25.18



Example of fastening with an angle



Standard profile dimensions for the example of mk 2040.01

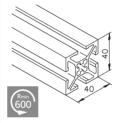


Series 40 Profiles

Basic Profiles

Series 40 profiles are based on a grid dimension of 40×40 mm. They are generally used for moderate to light-duty machine frames, guarding, assembly work stations, exhibit construction and work platforms. The slot width of 10 mm and slot depth of 12 mm are designed for use with DIN M8 screws. However, M4, M5 and M6 screws can also be used. The profile's bore channels are designed for tapping threads or for inserting a threaded insert or HELICOIL.

Material: Anodised aluminium



Profile mk 2040.31 (extra light duty)

1.50 kg/m

Stock length	54.31.5100
Cut	54.31

End service		Item no.
	α and β	5431AF
•	ø 10	5431BV
• •	ø 10	5431BW
	M8	5431AA
	M8	5431AB







Profile mk 2040.40 (light duty)

1.64 kg/m

Stock length	54.40.5100
Cut	54.40



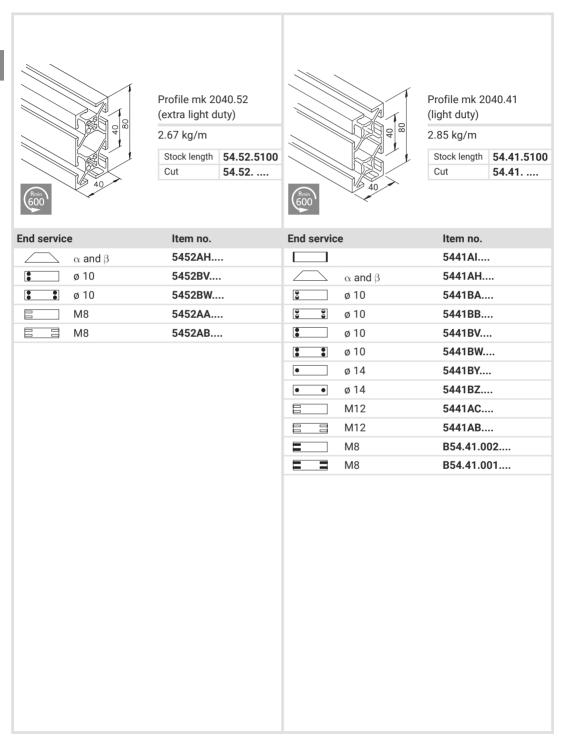
Profile mk 2040.01

2.00 kg/m

Stock length	54.01.5100
Stock length	54.01.6100
Cut	54.01

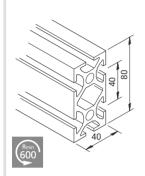
	1.		
End service	Item no.	End service	Item no.
	5440AI		5401AI
α and β	5440AC	α	5401AE
● ø 10	5440BA	α and β	5401AF
● ● ø 10	5440BB	● ø 10	5401BA
• ø 10	5440BV	● ● Ø 10	5401BB
• • ø 10	5440BW	• ø 10	5401BV
• ø 14	5440BY	• • ø 10	5401BW
• • ø 14	5440BZ	• ø 14	5401BY
⊨ M12	5440AA	• • ø 14	5401BZ
E	5440AB	⊨ M12	5401AA
■ M8	B54.40.002		5401AB
■ ■ M8	B54.40.001	■ M8	B54.01.003
₩10	B54.40.004	■ M8	B54.01.002
		₩10	B54.01.001

Series 40 Profiles





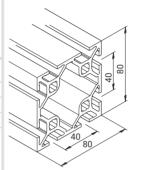




Profile mk 2040.02

3.62 kg/m

Stock length	54.02.5100
Stock length	54.02.6100
Cut	54.02



 α and β

ø 14

ø 14

4 x M12

4 x M12

4 x M8 4 x M8

End service

•

Profile mk 2040.45 (light duty)

4.75 kg/m

Item no. 5445AF....

5445BY....

5445BZ....

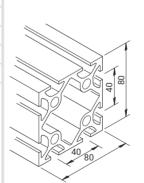
5445AA....

5445AB.... B54.45.002....

B54.45.001....

Stock length	54.45.5100
Cut	54.45

End servic	е	Item no.
		5402AI
	α and β	5402AH
•	ø 10	5402BA
⊕ ⊕ ⊕	ø 10	5402BB
•	ø 10	5402BV
	ø 10	5402BW
•	ø 14	5402BY
• •	ø 14	5402BZ
	M12	5402AA
	M12	5402AB
	M8	B54.02.002
	M8	B54.02.001



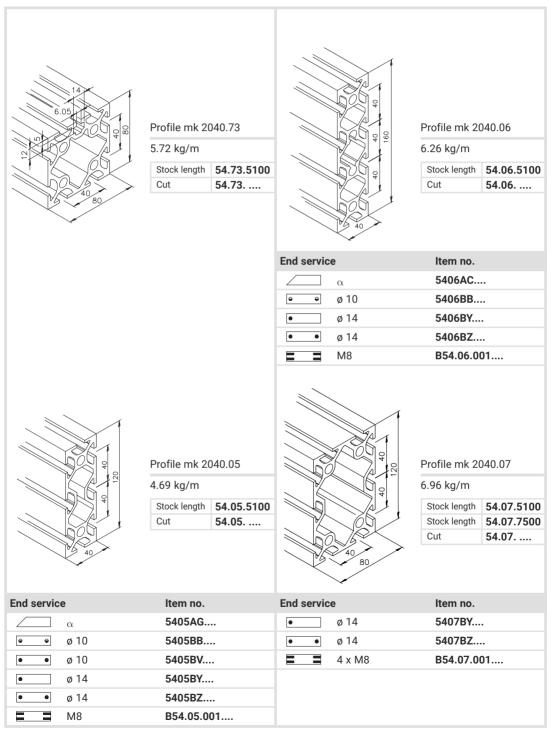
Profile mk 2040.03

5.57 kg/m

Stock length	54.03.5100
Stock length	54.03.6100
Cut	54.03

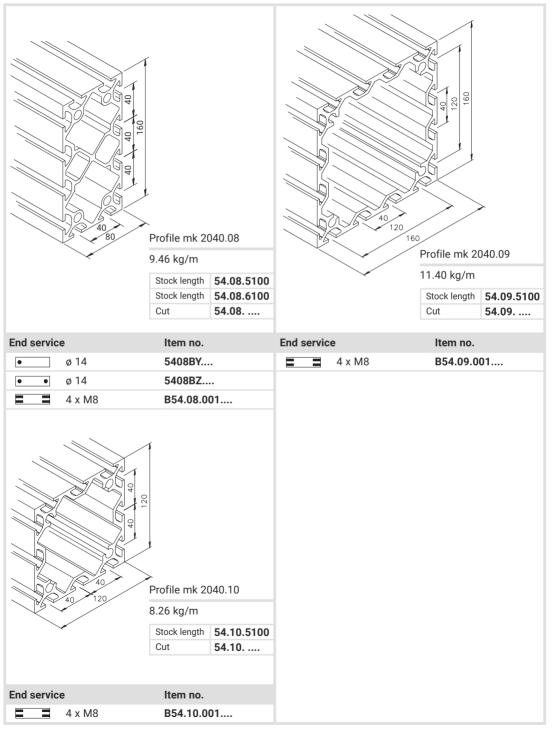
End servic	е	Item no.
	α and β	5403AF
•	ø 14	5403BY
• •	ø 14	5403BZ
	4 x M12	5403AA
	4 x M12	5403AB
	4 x M8	B54.03.002
	4 x M8	B54.03.001

Series 40 Profiles











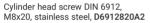
Series 40 Profiles

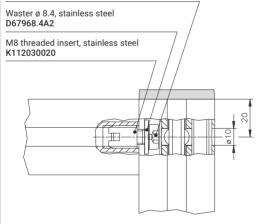
Cleanroom Profiles

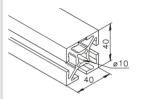
mk cleanroom profiles feature a smooth and uninterrupted surfaces that prevents dirt from accumulating. This makes the profiles ideally suited for environments that place stringent requirements on cleanliness or design. The typical mk edge radius of only 1 mm ensures smooth connections between profiles without any gaps or spaces. The profiles' slots can be opened if necessary.

Material: Anodised aluminium

Fastening example





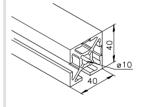


Profile mk 2040.92

1.00 kg/111	1	.68	kg/m
-------------	---	-----	------

Stock length	54.92.5100
Cut	54.92

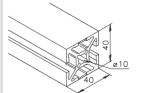
End service	Item no.
• ø 14	5492BY
• • ø 14	5492BZ



Profile mk 2040.93

1.72 kg/m

Stock length	54.93.5100
Cut	54.93



Profile mk 2040.94

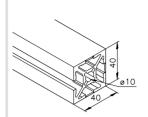
1.72 kg/m

Stock length	54.94.5100
Cut	54.94

End service	Item no.
• ø 14	5494BY
• • ø 14	5494BZ



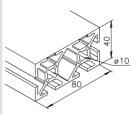




Profile mk 2040.95

1.75 kg/m

Stock length	54.95.5100
Cut	54.95

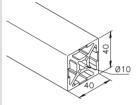


Profile mk 2040.100

2.94 kg/m

Stock length	54.100.5100
Cut	54.100

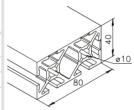
End service	Item no.
• ø 14	54100BY
• • ø 14	54100BZ



Profile mk 2040.96

1.78 kg/m

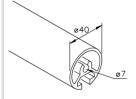
Stock length	54.96.5100
Cut	54.96



Profile mk 2040.101

2.97 kg/m

Stock length	54.101.5100
Cut	54.101



Profile mk 2040.16

1.25 kg/m

Stock length	54.16.5100
Cut	54.16

M8 thread possible

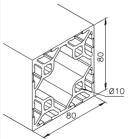
`			
		>1	
		Ø 9	
		01	^
	JS		U
	80		
Var			
~			

Profile mk 2040.104

3.07 kg/m

Stock length	54.104.5100
Cut	54.104





Profile mk 2040.109

5.04 kg/m

Stock length	54.109.5100
Cut	54.109

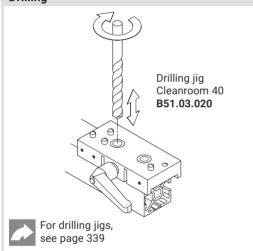


Series 40 Profiles

Cleanroom Profiles - Machining

The slot in a cleanroom profile can be manually opened, either partially or completely, without any complicated procedures. A parting tool is used to open the profile at the desired location. This can be done without significant exertion. If you want to open the profile only partway, use the drilling jig to drill a bore at the end of the desired section.

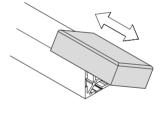
Drilling



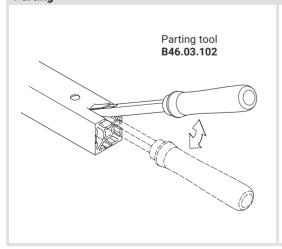
Deburring

A sanding sponge can be used to easily and manually deburr the profiles during assembly.

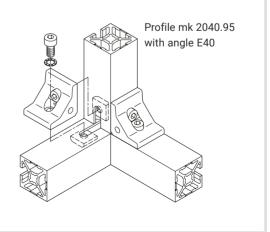
Sanding sponge **K902030001**

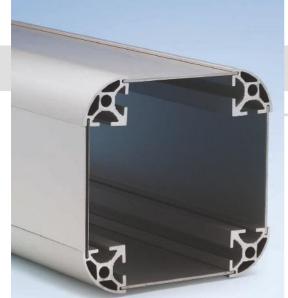


Parting



Profile with angle







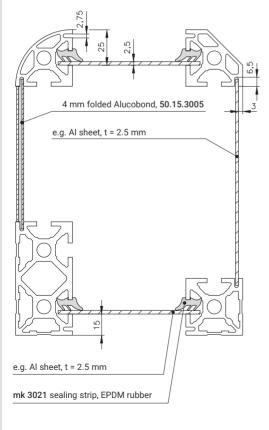


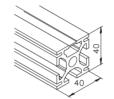
Profiles for Fastening Panelling

mk Series 40 profiles with closed slots on one or both sides have, in addition to the system slot, a second, smaller 2.75 mm slot for attaching panelling. This allows the main slot to remain free, for example for attaching angles.

Material: Anodised aluminium

Example of fastening with panelling



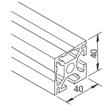


Profile mk 2040.21

1.84 kg/m

Stock length	54.21.5100
Cut	54.21

End service	•	Item no.
		5421Al
9 9	ø 10	5421BB
• •	ø 10	5421BW
•	ø 14	5421BY
• •	ø 14	5421BZ
	M12	5421AA
	M8	B54.21.001



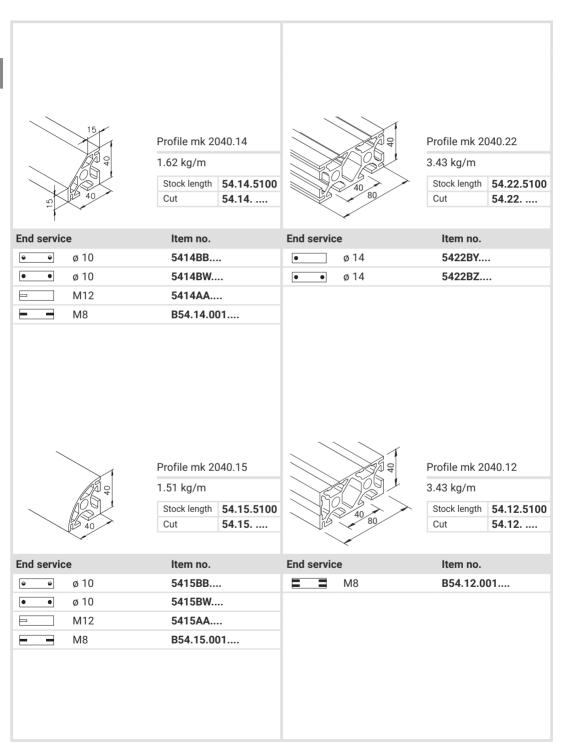
Profile mk 2040.11

1.88 kg/m

Stock length	54.11.5100
Cut	54.11

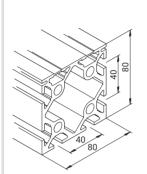
End service	e	Item no.
		5411Al
0 0	ø 10	5411BB
• •	ø 10	5411BW
	M12	5411AA
	M8	B54.11.001

Series 40 Profiles







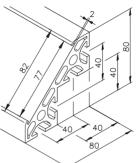


Profile mk 2040.46

5.44 kg/m

Stock length	54.46.5100
Cut	54.46

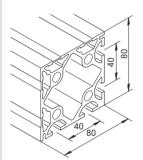
End service	е	Item no.
•	ø 14	5446BY
• •	ø 14	5446BZ
= =	4 x M8	B54.46.002



Profile mk 2040.04

3.61 kg/m

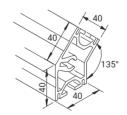
Stock length	54.04.5100
Cut	54.04



Profile mk 2040.13

5.32 kg/m

Stock length	54.13.5100
Cut	54.13





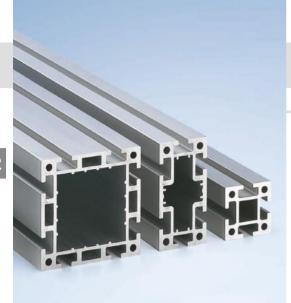
For corner blocks, see page 124

Profile mk 2040.19

2.54 kg/m

Stock length	54.19.5100
Cut	54.19

End service	Item no.	End service	Item no.
4 x M8	B54.13.001	M 8	B54.19.002
		■ M8	B54.19.001



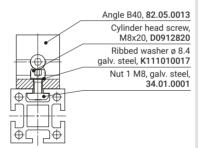
Series 50 Profiles

Basic Profiles

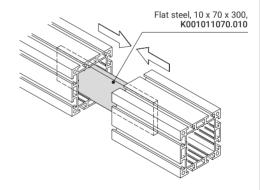
Series 50 profiles are based on a grid dimension of 50×50 mm. They are generally used for heavy-duty machine frames, frames with high static loads and load-bearing structures. The slot width of 10 mm and slot depth of 12 mm are designed for use with DIN M8 screws. However, M4, M5 and M6 screws can also be used. The profile's bore channels are designed for tapping threads or for inserting a threaded insert or HELICOIL.

Material: Anodised aluminium

Example of fastening with an angle

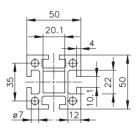


Example of fastening with flat steel



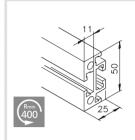
A flat steel plate can be inserted to join two profiles at their faces. Screw connections are used to fasten the profiles. The steel plate should extend into each profile a distance of at least twice its width.

Standard profile dimensions for the example of mk 2000





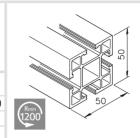




Profile mk 2001

1.59 kg/m

Stock length	51.01.5100
Cut	51.01

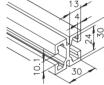


Profile mk 2014 (light duty)

1.98 kg/m

Stock length	51.14.5100
Cut	51.14

End service	Item no.	End service	Item no.
■ ■ M8	5101AA	α	5114AE
		α and β	5114AF
Profile mk 2030	● ● ø 10	5114BG	
	• ø 14	5114BY	
	• • ø 14	5114BZ	
	4 x M8	B51.14.022	
	4 x M8	B51.14.021	



1.06 kg/m

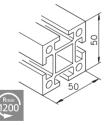
Stock length	51.30.5100
Cut	51.30



Profile mk 2002 (extra light duty)

1.75 kg/m

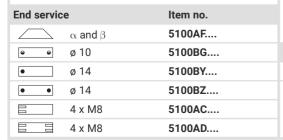
Stock length	51.02.5100
Cut	51.02

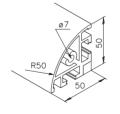


Profile mk 2000

2.85 kg/m

Stock length	51.00.5100
Stock length	51.00.6100
Cut	51.00





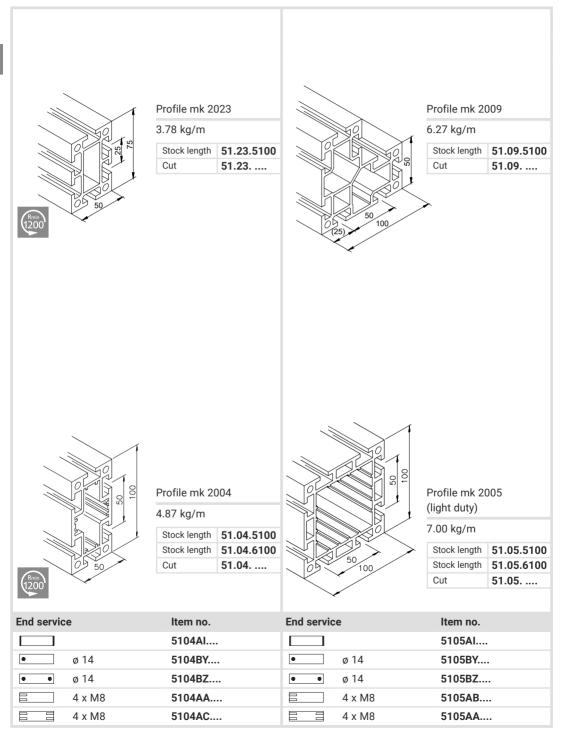
Profile mk 2003

2.00 kg/m

Stock length	51.03.5100
Cut	51.03

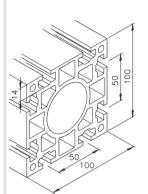
End service	9	Item no.
	M8	5103AA

Series 50 Profiles





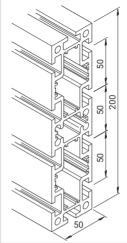




Profile mk 2011

9.70 kg/m

Stock length	51.11.5100
Stock length	51.11.6100
Cut	51.11

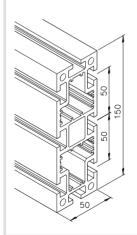


Profile mk 2008

9.09 kg/m

Stock length	51.08.5100
Stock length	51.08.6100
Cut	51.08

End service	Item no.	End service	Item no.
• ø 14	5111BY	• ø 14	5108BY
● ● Ø 14	5111BZ	• • ø 14	5108BZ
4 x M8	5111AA	■ 4 x M8	5108AA
□ □ 4 x M8	5111AB	□ □ 4 x M8	5108AB

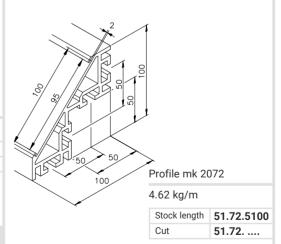


Profile mk 2006

7.00 kg/m

Stock length	51.06.5100
Cut	51.06

End service	e	Item no.
•	ø 14	5106BY
• •	ø 14	5106BZ
	4 x M8	5106AA
	4 x M8	5106AB

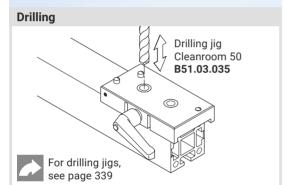


Series 50 Profiles

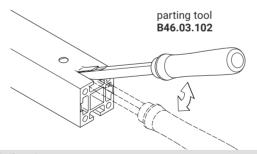
Cleanroom Profiles

mk cleanroom profiles feature a completely smooth surface on their closed sides. This makes them ideally suited for environments with stringent cleanliness requirements. The typical mk edge radius of only 1 mm ensures smooth connections between profiles without any gaps. The profiles' slots can be opened without complicated machining so that all connecting elements in the standard mk product range can be used.

Material: Anodised aluminium

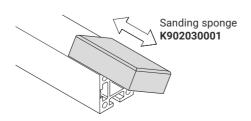


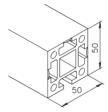
Parting



Deburring

A sanding sponge can be used to easily and manually deburr the profiles during assembly.

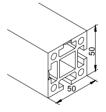




Profile mk 2017

	ka/m

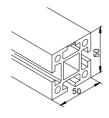
Stock length	51.17.5100
Cut	51.17



Profile mk 2018

3.00 kg/m

Stock length	51.18.5100
Cut	51.18



Profile mk 2019

3.00 kg/m

Stock length	51.19.5100
Cut	51.19







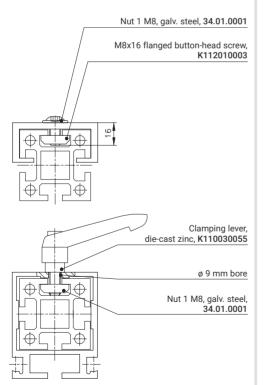
Profiles for Telescoping

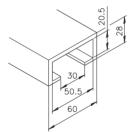
These profiles can be combined with the mk 2000 basic profile ($50 \times 50 \text{ mm}$) to allow for quick and easy height adjustment with a screw or clamping lever, for example in a support frame.

Material: Anodised aluminium



for series 40 telescoping profiles, see page 316

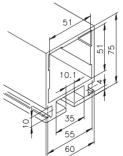




Profile mk 2033

1.50 kg/m

Stock length	51.33.5100	
Cut	51.33	



Profile mk 2031

2.85 kg/m

Stock length	51.31.5100
Cut	51.31



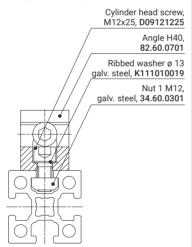
Series 60 Profiles

Basic Profiles

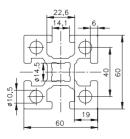
Series 60 profiles are based on a grid dimension of 60 x 60 mm. They are generally used for large gantries and machine frames subject to the heaviest loads, applications which are usually reserved for steel constructions. The slot width of 14 mm and slot depth of 19 mm are designed for use with DIN M12 screws. However, M6, M8 and M10 screws can also be used. The profile's bore channels are designed for tapping threads or for inserting a threaded insert or HFI ICOII

Material: Anodised aluminium

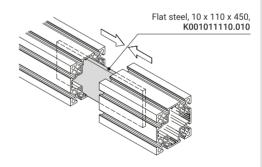
Example of fastening with an angle



Standard profile dimensions for the example of mk 2060.01



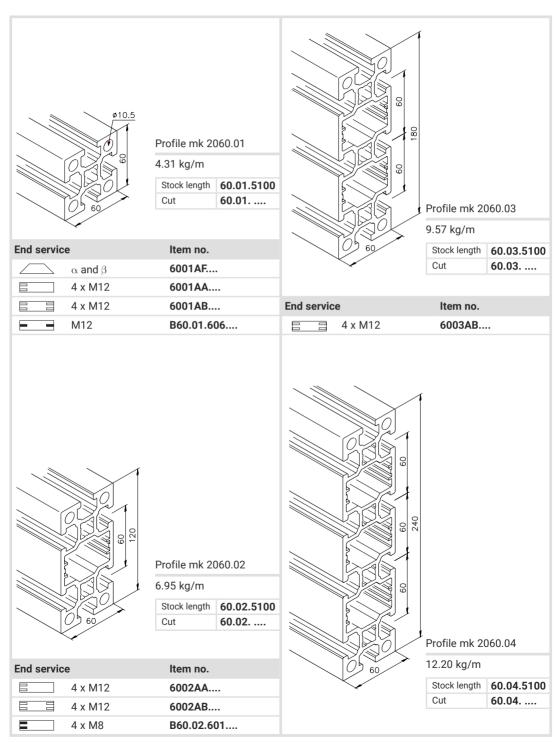
Example of fastening with flat steel



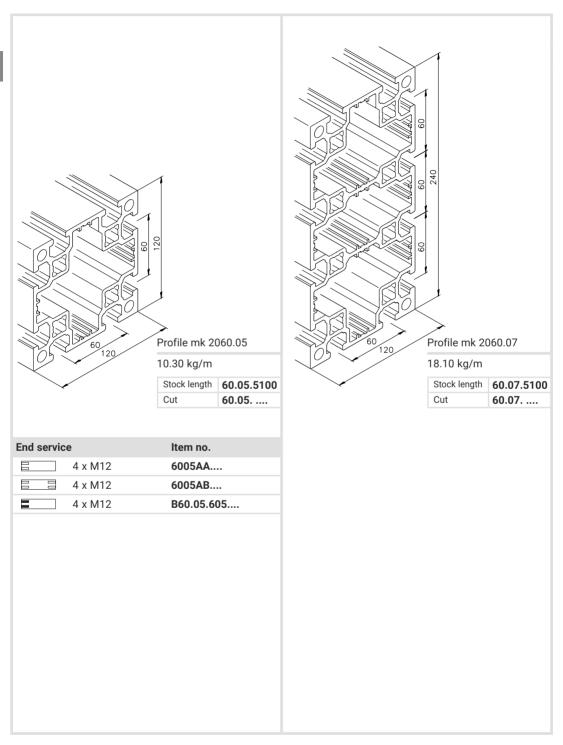
A flat steel plate can be inserted to join two profiles at their faces. Screw connections are used to fasten the profiles. The steel plate should extend into each profile a distance of at least twice its width.

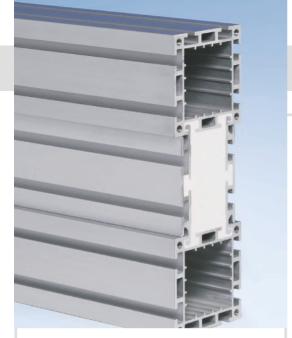






Series 60 Profiles





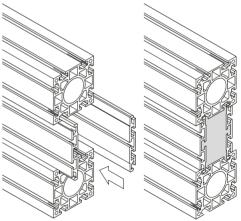


Foamed Combined Profiles

Foamed combined profiles are combinations of Series 40, 50 or 60 profiles and special connection profiles that are filled with foam. Filling the hollow spaces between the profiles with foam permanently binds the profiles together. This results in beams that are custom-tailored to the particular application and that can withstand even dynamic loads.

They are frequently used as columns and beams for gantries and machine frames with high loads, span widths and vibrations and as beams for long, heavy linear axes.





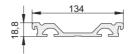
The 300 x 100 mm foamed profile shown here is built from mk 2011 and mk 2067 profiles and exhibits similar deflection to an IPE 220 steel T-beam with dimensions of 220 x 110 mm.

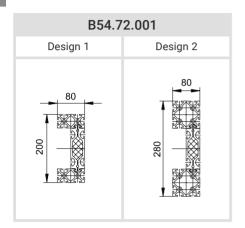
The properties of the combined profiles shown below are available on request.

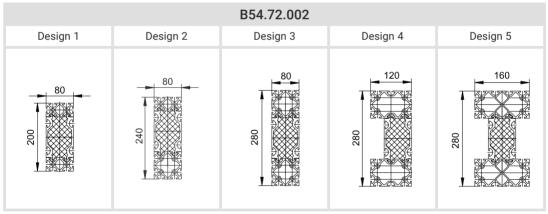
Foamed Combined Profiles

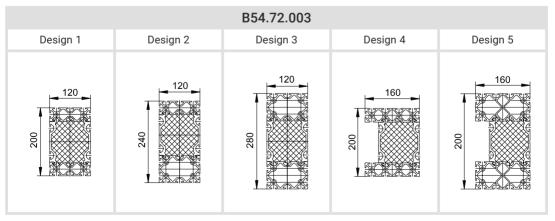
Series 40

... with mk 2040.72 profile





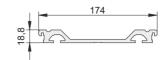




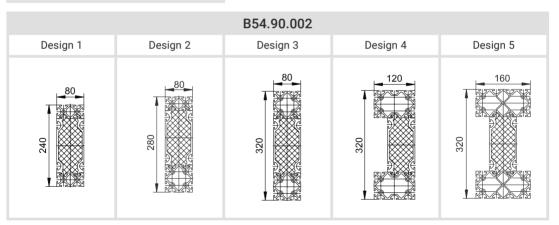


Series 40

... with mk 2040.90 profile



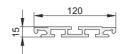
B54.90.001				
Design 1	Design 2			
240	320			



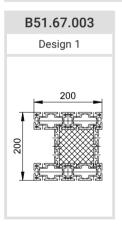
Foamed Combined Profiles

Series 50

... with mk 2067 profile



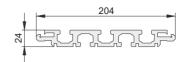
B51.67.002					
Design 1	Design 2	Design 3	Design 4	Design 5	
100 100 100 100 100 100 100 100	250	100 100	100 100	100	

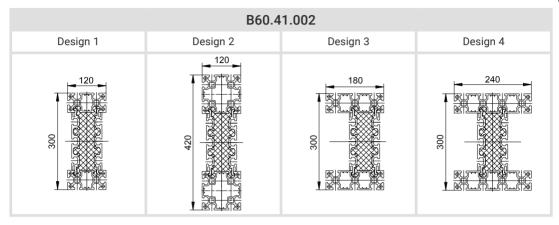


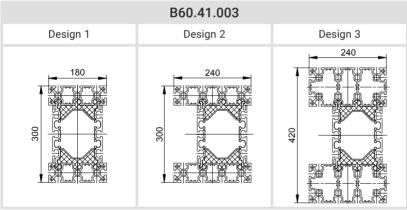


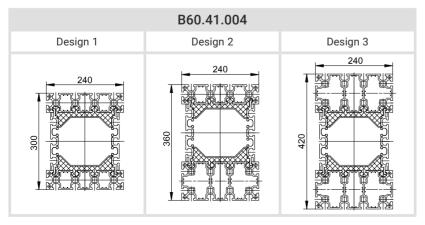
Series 60

... with mk 2060.41 profile









Section 3 Connecting Elements



Choosing a Connection

Features of mk **Connection Technology** Selection Matrix for **Connecting Elements**



Angle Fasteners

76

77

90° Angles 78 90° Angle Brackets 89 30/45/60° Angles 63 Adjustable Angle Brackets 94



Plate Fasteners

Plate Fasteners 96 Heavy-Duty Plate Fasteners 100



Internal Fasteners

Tension Plugs and **Screw Connections** 106 **Anchor Fasteners** 112 Clamping Jaws 113 **Bolt Fasteners** 114 Hinge Tension Plugs 115 Tension Plugs, Front Side 116 **Parallel Connectors** 117



Corner Block Joints

Corner Blocks 120 Truss Blocks 127



Profile Clamps 130









D28 90° Angle Fasteners
D28 Cross Connector
D28 Angle Fasteners
D28 Ball Joint Connectors
D28 Parallel Connectors
D28 Adapter for Series 40 Profiles



Nuts/T-nuts

132	Nuts
133	Countersunk Nuts
134	T-slot Nuts
135	Nuts for Later Mounting
136	Nut Fixtures
137	



Standard Parts

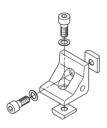
Cylinder Head Screws	145
Countersunk Head Screws	145
Flanged Button-Head Screws	146
Hexagon Head Screws	146
Threaded Insert	146
Helicoil	146
Threaded Pins	147
Hexagon Nuts	147
Ribbed Washers	147
Tension Washers	147

Choosing a Connection

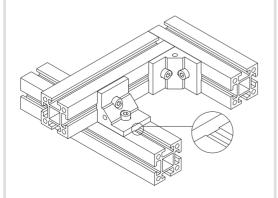
Features of mk Connection Technology

The mk profile system offers a wide range of connection options and gives you ultimate flexibility in designing your structure. You can select from a variety of different connectors, each with their own special features and advantages, for example angle fasteners, internal fasteners, plate fasteners, corner blocks, truss blocks and clamped connections. With the mk profile system, you can create connections at any angle. All connecting elements use standard screws. Whatever your requirements, we always have the perfect connection technology.

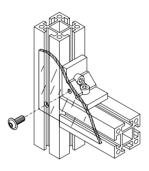
The connection used most frequently at mk is the solid angle fastener. It is a simple and extremely sturdy screw connection that can be used without profile machining. For each angle we also offer a complete assembly kit that contains the necessary fastening accessories (screws, ribbed washers. nuts/T-nuts) in the appropriate quantities.



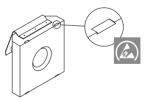
Angles can also be mounted or removed later and allow profiles from various series or other components to be connected to each other. Angles with a key prevent undesired twisting and provide a perfectly aligned connection.



Threads for inserting panelling elements can be tapped into the angle's lateral bores.



To create a conductive connection using angles. simply use the nuts/T-nuts labelled with the ESD symbol. It may be possible to adapt nuts not labelled for ESD use; please contact us.



In addition to angle fasteners, we also offer a range of other connectors. The matrix below will give you a brief overview of which connectors are suitable for your requirements. If you need exact data about load capacity, where are happy to provide these on request.



Selection Matrix for Connecting Elements

++ Recommended	+ Suitable	o Not suitable
TT NECOIIIIIEIIUEU	T Sultable	U NUL SUILADIE

	High load capacity	High torque capacity	High twisting moment	Little machining required	Little assembly work required	Later mounting in frames	Internal slots remain free
	F	M	M _T				
Angles (one side)	+	+	+	++	++	++	o
Angles (two sides)	++	++	++	++	++	++	o
Plates	+	+	+	++	++	++	++
Tension plugs	+	0	0	+	++	o	++
Cleanroom	+	o	o	+	++	o	++
Clamping jaws	+	o	O	+	+	++	o
Anchor fasteners	+	o	0	++	+	o	o
Bolt fasteners	++	+	+	+	+	++	o
Corner blocks	+	o	0	+	+	0	0
Clamps	+	0	O	++	+	o	0



90° Angles

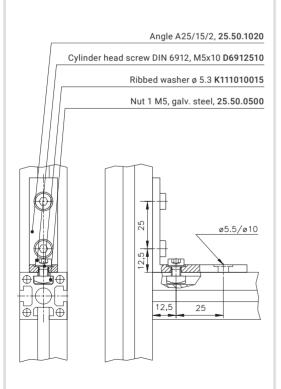
The angle fastener is a simple and extremely sturdy screw connection that can be used without profile services. Angles with a key prevent undesired twisting and provide a perfectly aligned connection.

Material: Tumbled aluminium

25 40 50 60

M5x10 DIN 6912

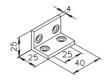
Fastening example





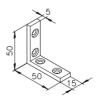
Angle 15 25.50.1000

T25.50.1000*



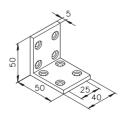
Angle 40 25.50.1001

T25.50.1001*



Angle A25/15/2 25.50.1020

T25.50.1020*



Angle A25/40/2 25.50.1021

T25.50.1021*





90° Angles

The assembly kit for each angle (item numbers beginning with T) contains the necessary fastening accessories (screws, ribbed washers, nuts/T-nuts).

Material: Tumbled aluminium

25 40 50 60

M5x12

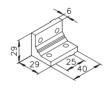
Angle (with key)





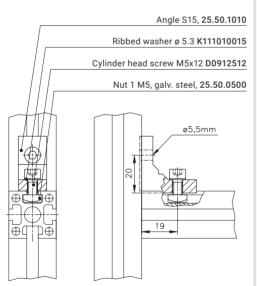
Angle S15 25.50.1010

T25.50.1010*

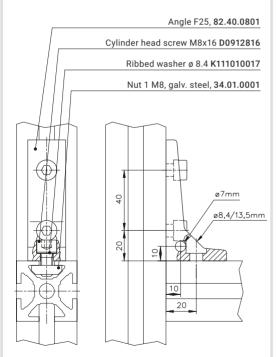


Angle S40 25.50.1012

T25.50.1012*



Fastening example



Threads for inserting panelling elements can be tapped into the angle's lateral bores.

Angle Fasteners

90° Angles

Material: Tumbled aluminium



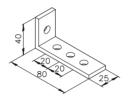
M8x16

Angle P



Angle P1 **82.00.0023**

T82.00.0023*



Angle P3 **82.00.0024**

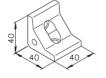
T82.00.0024*

Angle E



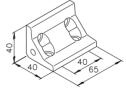
Angle E25 **82.40.0701**

T82.40.0701*



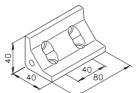
Angle E40 **82.40.0702**

T82.40.0702*



Angle E65 82.40.0704

T82.40.0704*



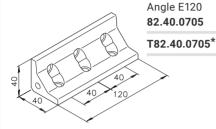
Angle E80 **82.40.0703**

T82.40.0703*

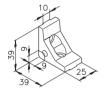




Angle E



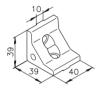
Angle Es (with key)



25 40 50 60

Angle E25s 82.40.0741

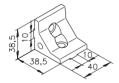
T82.40.0741*



25 40 50 60

Angle E40s 82.40.0742

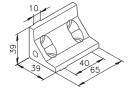
T82.40.0742*



Angle E40s3

82.40.0747

T82.40.0747*



Angle E65s 82.40.0744

T82.40.0744*

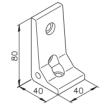
Angle F



25 40 50 60

Angle F25 82.40.0801

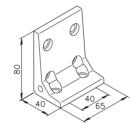
T82.40.0801*



25 40 50 60

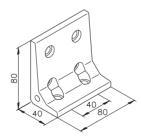
Angle F40 82.40.0802

T82.40.0802*



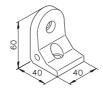
Angle F65 82.40.0804

T82.40.0804*



Angle F80 82.40.0803

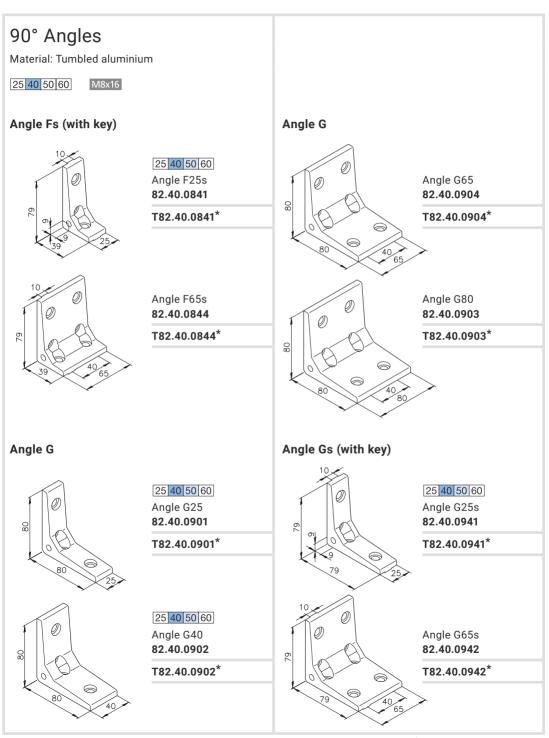
T82.40.0803*



Angle F40/R 82.40.0805

T82.40.0805*

for attaching partitions to posts







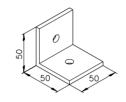
90° Angles

Material: Tumbled aluminium

25 40 50 60

Angle A

M8x16



Angle A1 82.02.0001

T82.02.0001*

Angle A3 82.03.0001

T82.03.0001*

Cylinder head screw M8x20, D0912820 Ribbed washer ø 8.4 K111010017

Angle B25, 82.05.0003

Nut 1 M8, galv. steel, 34.01.0001

25

ø 7 mm for M8 ø 8.4/13.5 mm

Threads for inserting panelling elements can be tapped into the angle's lateral bores.

Angle B

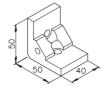
M8x20



25 40 50 60

Angle B25 82.05.0003

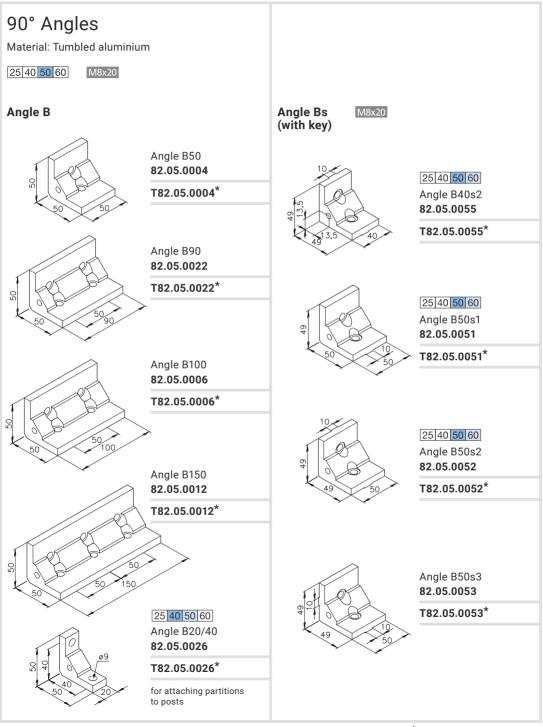
T82.05.0003*



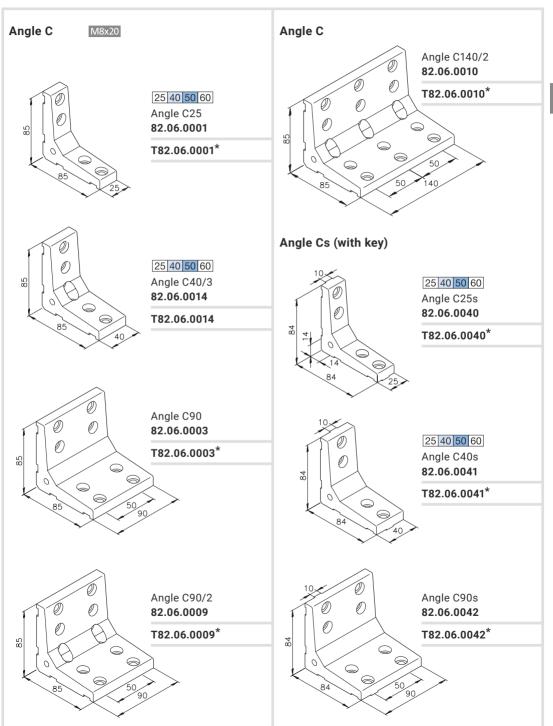
25 40 50 60

Angle B40 82.05.0013

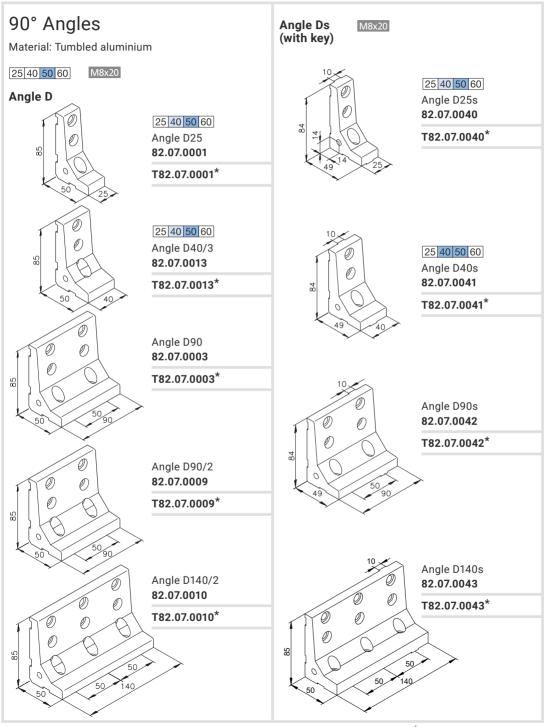
T82.05.0013*







^{*}Set with fastening accessories







90° Angles

Material: Tumbled aluminium

25 40 50 60

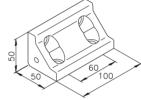
M12x25

Angle H



Angle H40 82.60.0701

T82.60.0701*



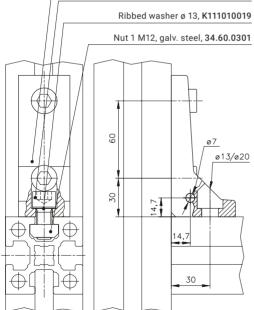
Angle H100 82.60.0702

T82.60.0702*

Fastening example

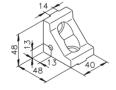
Angle J40, 82.60.0801

Cylinder head screw M12x25, D09121225



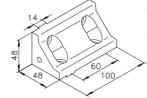
Threads for inserting panelling elements can be tapped into the angle's lateral bores.

Angle Hs (with key)



Angle H40s 82.60.0741

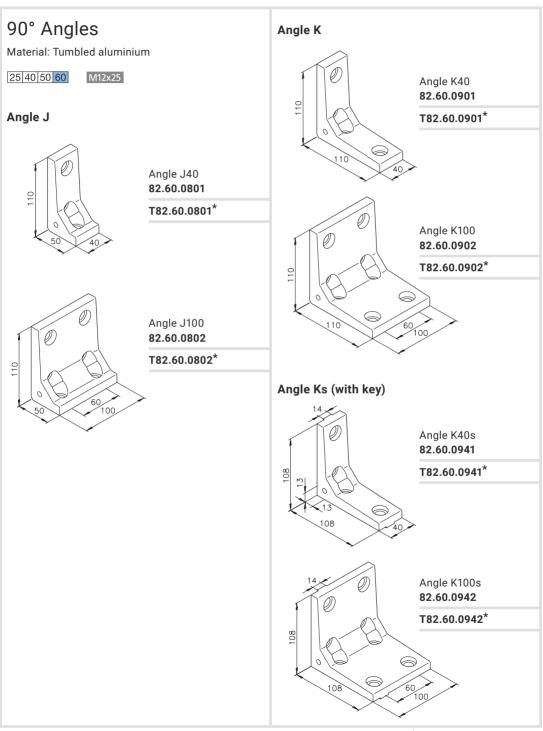
T82.60.0741*



Angle H100s 82.60.0742

T82.60.0742*

^{*}Set with fastening accessories







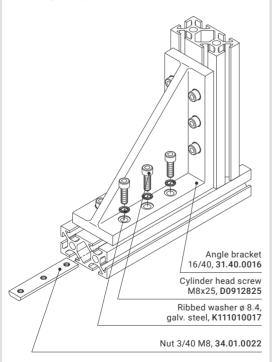
90° Angle Brackets

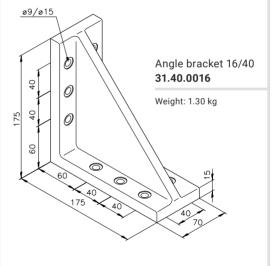
mk angle brackets are an excellent addition to mk's range of angles, designed for structures subject to high static loads and for connecting heavy, third-party components.

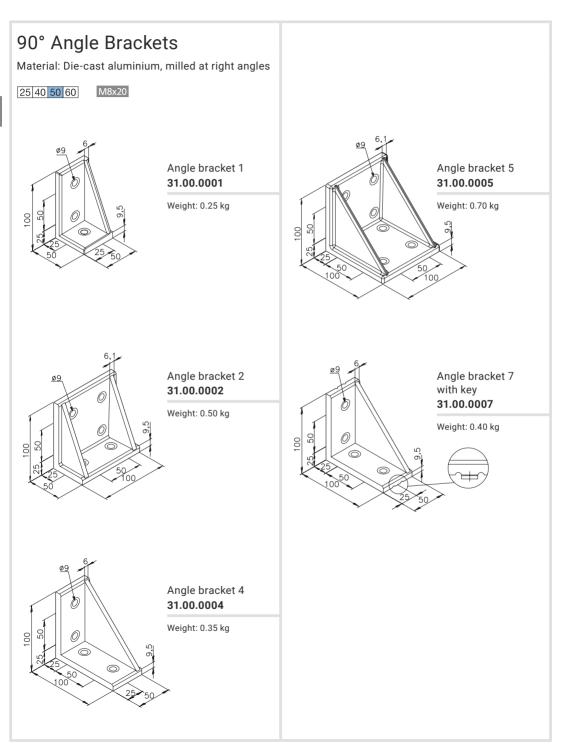
Material: Die-cast aluminium, milled at right angles



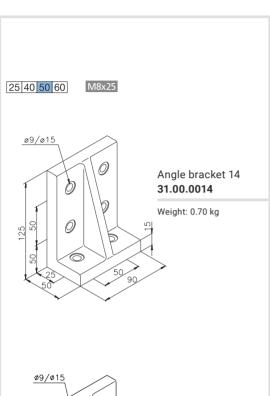


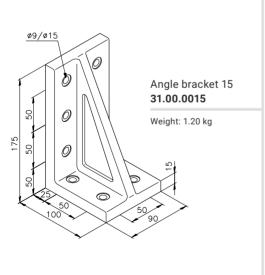


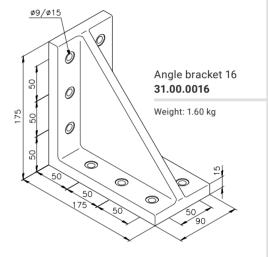












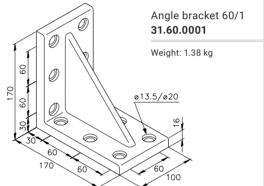


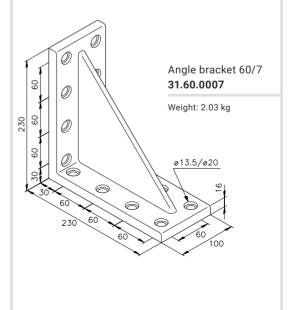
90° Angle Brackets

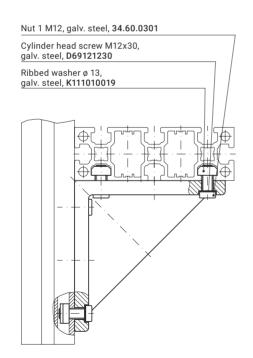
Material: Die-cast aluminium, milled at right angles

25 40 50 60

M12x30











30/45/60° Angles

The L (30°), M (45°) and N (60°) angles are ideal for reinforcing corners. In rectangular frame structures, you must always combine two M angles or one L angle and one N angle. This will make the profiles line up automatically.

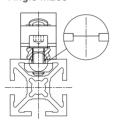
Material: Tumbled aluminium

25 40 50 60

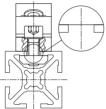
M8x20

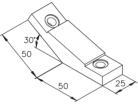
Angle with and without key

Angle M25s



Angle M25



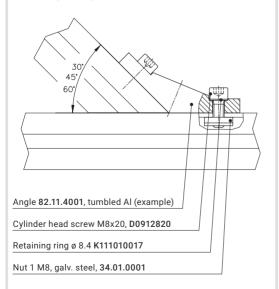


Angle L25

82.10.4001 Angle L25s

(with key) 82.10.4041

Fastening example



Angle M25 82.11.4001

Angle M25s (with key) 82.11.4041



Angle N25 82.12.4001

Angle N25s (with key)

82.12.4041



Adjustable Angle Brackets

Adjustable angle brackets make it possible to connect mk profiles at continuously variable angles. The assembly kit for each angle contains the necessary fastening accessories (screws, ribbed washers, nuts/T-nuts).

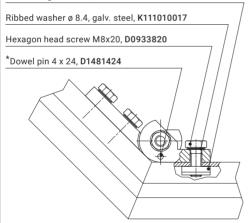
Material: Tumbled aluminium

25 40 50 60

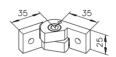
M6x16

Series 40 fastening example

Nut 1 M8, galv. steel, 34.01.0001



*If needed, the adjustable angle brackets can be easily dowelled. The dowel pin is included with delivery.



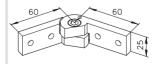
Adjustable angle bracket A25/1 B46.00.035

B46.00.025*



Adjustable angle bracket A25/2 B46.00.036

B46.00.026*



Adjustable angle bracket A25/3

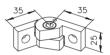
B46.00.034

B46.00.024*



25 40 50 60

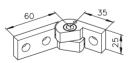
M8x20



Adjustable angle bracket B25

B46.00.033

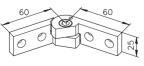
B46.00.021*



Adjustable angle bracket C25

B46.00.037

B46.00.027*



Adjustable angle bracket D25

B46.00.032

B46.00.020*

^{*}Set with fastening accessories



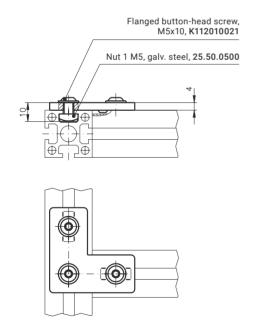
Plate Fasteners

Depending on your installation situation, you can choose among straight plates, T-plates or angle plates. The plates have a pressed indentation to ensure that they do not twist in the slot. The assembly kit for each plate (item numbers beginning with T) contains the necessary fastening accessories (screws, nuts/T-nuts).

Material: Tumbled aluminium

25 40 50 60

M5x10 Flanged button-head screw



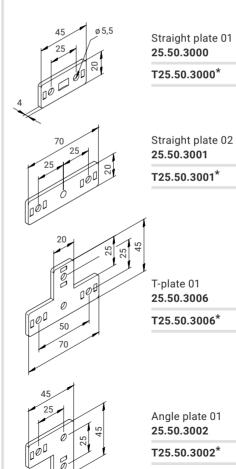






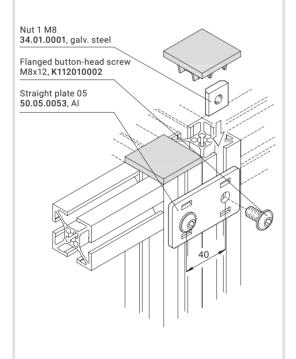
Plate fasteners are also used to connect quard partitions. The inner slots remain unobstructed and can thus be used to attach panelling. Straight plate 05, shown here, can be used to connect two guard partitions without a gap.

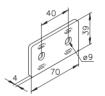
Material: Tumbled aluminium

25 40 50 60

M8x12 Flanged button-head screw

Fastening example





Straight plate 05 50.05.0053

T50.05.0053*

^{*}Set with fastening accessories

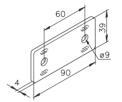


Plate Fasteners

Material: Tumbled aluminium

25 40 50 60

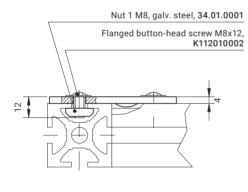
M8x12 Flanged button-head screw

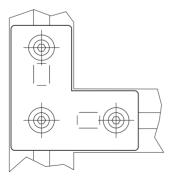


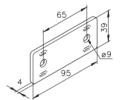
Straight plate 04 50.05.0077

T50.05.0077*

Fastening example

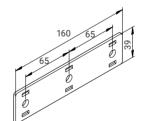






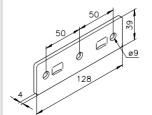
Straight plate 03 50.05.0052

T50.05.0052*



Straight plate 09 50.05.0070

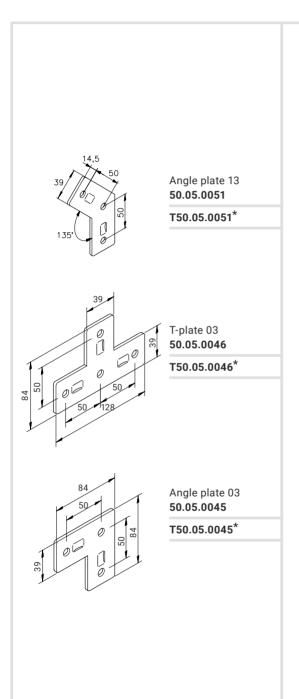
T50.05.0070*



Straight plate 07 50.05.0047

T50.05.0047*





^{*}Set with fastening accessories



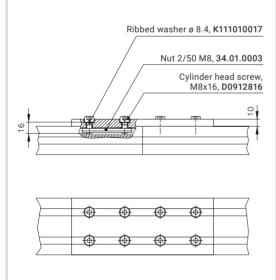
Heavy-Duty Plate Fasteners

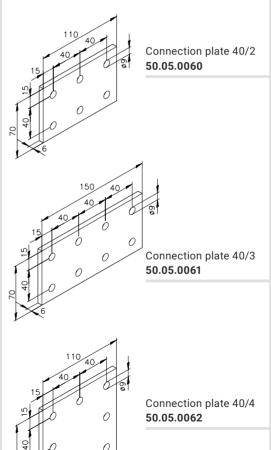
The heavy-duty plate fasteners have a plate thickness of 6 mm and are designed for higher loads. Plates with a key ensure that profile paths are exactly aligned and that the connections do not twist in the slot.

Material: Tumbled aluminium

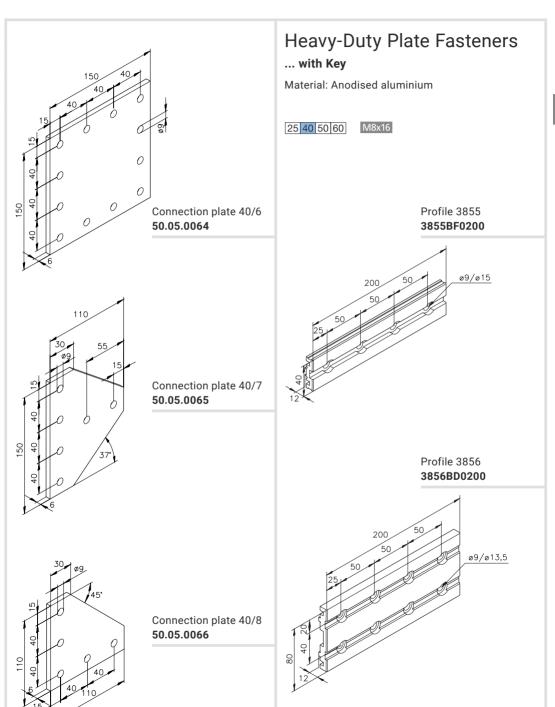
25 40 50 60

M8x16









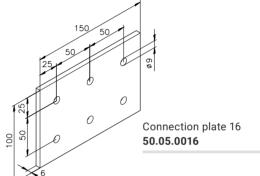


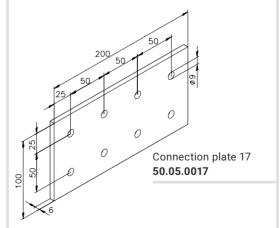
Heavy-Duty Plate Fasteners

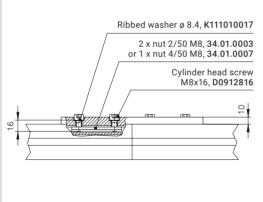
Material: Tumbled aluminium

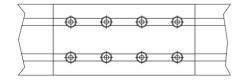




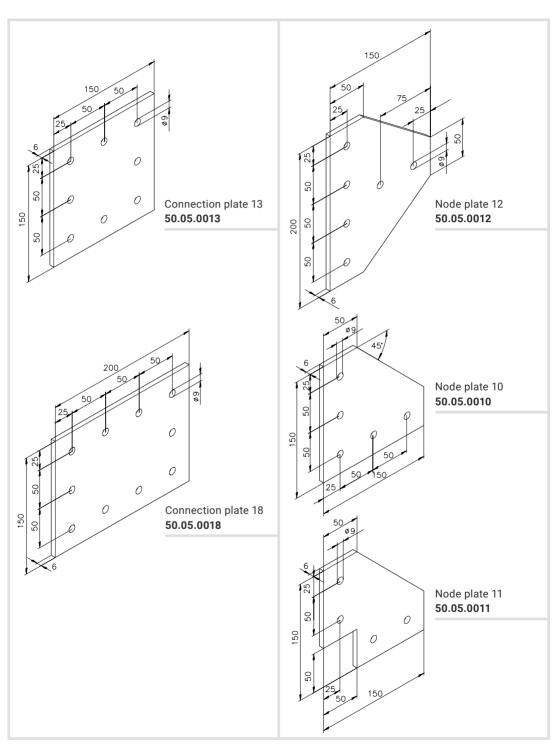


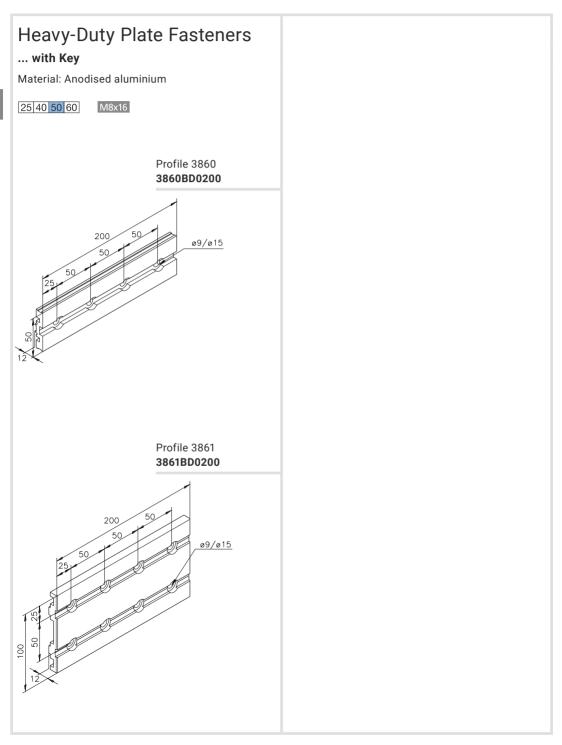










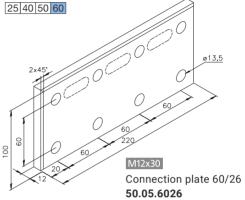


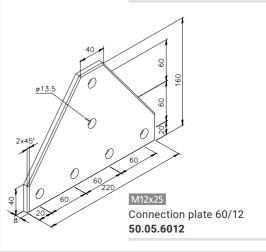


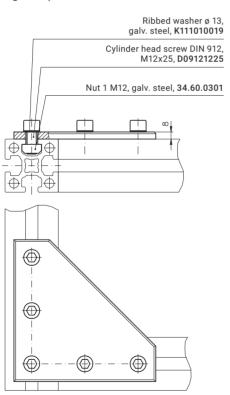


Heavy-Duty Plate Fasteners

Material: Tumbled aluminium

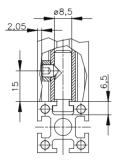






Tools starting on page 334 End services starting on page 16

Fastening example



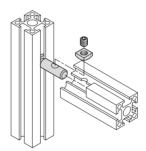
Internal Fasteners

Tension Plugs

Tension plugs are an alternative to angles when the slots must be left free for inserting panelling or when structures are to be created without visible connecting elements. Tension plugs are therefore often used with protective panels or in light-duty frame construction.

Material: Galvanised steel

25 40 50 60





Tension plug **B51.03.009**

End services BA, BB (ø 5.8 mm bore to centre, 15 mm distance)



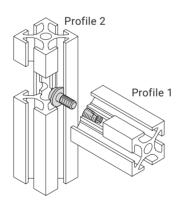


Screw connections allow users to create profile structures using only standard parts. The connection requires an M8 thread in profile 1 (extra light duty profile) or an M8 threaded insert. In profile 2, a Ø 10 mm bore is required at the spot of the connection to tighten the screw with an Allen key. For a seamless closure with an end cap, the bore should be 15 mm from the edge.



Tools starting on page 334 End services starting on page 16 25 40 50 60

Fastening example





Cylinder head screw M8x20 **D6912820**

DIN 6912, 8.8 galv. steel

D6912820A2

DIN 6912, 4.6 stainless steel



Tension washer **D67968**

Galv. steel

D67968A2

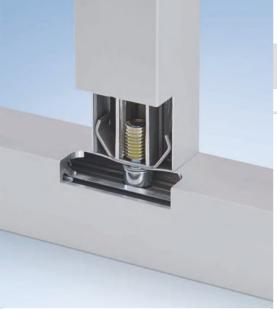
Stainless steel



M8 threaded insert **K112030008**

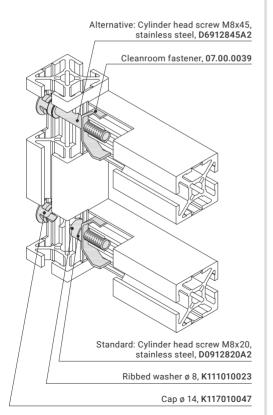
Galv. steel

(ø 10 mm through-bore)



Tools starting on page 334 End services starting on page 16 Cleanroom Profiles on page 54

Fastening example



Internal Fasteners

Screw Connections

... for Cleanrooms

mk's cleanroom fastener is a hidden fastener that securely connects Series 40 cleanroom profiles while also preventing twisting. The connector is clipped into the face of a profile equipped with a threaded insert. When the profiles are screwed together, the connector is pulled into the closed slot and displaces the removable material covering the slot. This produces a particularly close fit.

25 40 50 60





Cleanroom fastener with silver cap

B51.03.100.SI

with black cap **B51.03.100.SW**

Including screw, ribbed washer and cap



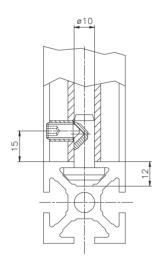
Tension Plugs

Tension plugs are an alternative to angles when structures need to have hidden connecting elements and unobstructed slots. As an alternative to the tension plugs listed below, you can also use tension plugs with a thrust part; see the following page. The plugs with thrust parts are more versatile and have additional benefits, but they have a smaller contact surface in the slot than the connectors shown here.

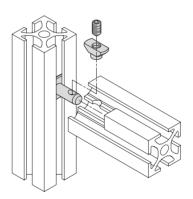


Tools starting on page 334 End services starting on page 16

Fastening example



25 40 50 60





Tension plug **B51.03.004**

Galv. steel

B51.03.030

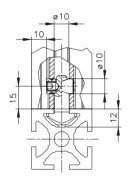
Stainless steel

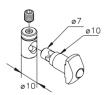
End services BA, BB (ø 10 mm bore to centre, 15 mm distance)



Tools starting on page 334 End services starting on page 16

Fastening example





Tension plug **B51.03.040**

for series 40 profiles, light duty and normal

End services BV, BW (ø 10 mm through-bore, 15 mm distance)

Internal Fasteners

Tension Plugs

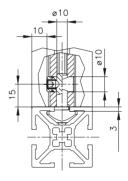
... with Thrust Part

Tension plugs with a thrust part are ideally suited for frame structures containing panelling, since all slots remain free. The tension plugs also allow profiles to be retrofitted onto existing structures, even if the faces of the profiles are already sealed. The connector is fastened in the slot using the thrust part (ball with spring), which eases mounting in a vertical position and provides an additional mounting option.

Material: Galvanised steel

25 40 50 60

Fastening example

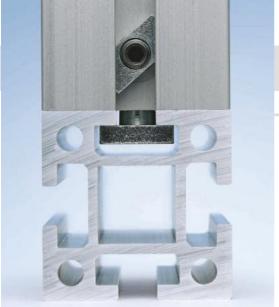




Tension plug **B51.03.041**

for series 40 profiles, extra light duty

End services BV, BW (ø 10 mm through-bore, 15 mm distance)





Tension Plugs

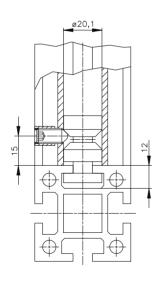
A tension plug is also available for Series 50 structures that require hidden connecting elements and unobstructed slots.

Material: Galvanised steel

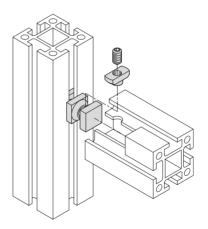


Tools starting on page 334 End services starting on page 16

Fastening example



25 40 50 60





Tension plug **B51.03.006**

End services BF, BG (ø 10 mm bore to centre, 15 mm distance)



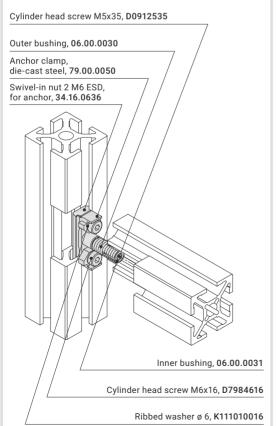
Internal Fasteners

Anchor Fasteners

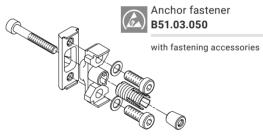
Anchor fasteners are an innovative type of hidden connector that can be used without profile services. They are slid into the Ø 10 mm bore channel of a Series 40 profile and clamped using a screw. The side anchors are used to fasten the connector to the other profile while also preventing twisting.

Material: Galvanised steel

Fastening example



25 40 50 60







Clamping Jaws

Clamping jaws are a versatile and hidden connection for Series 40 and Series 50 profiles. The screw can be easily tightened in the slot and they are suitable for later mounting in existing structures, making them appropriate for a wide range of applications. They can be used in profiles with two, four, eight or even "n" slots. The connection requires standard end service with a Ø 10 mm bore that is 15 mm from the edge for Series 40 and 14 mm from the edge for Series 50.

Material: Galvanised steel

25 40 50 60

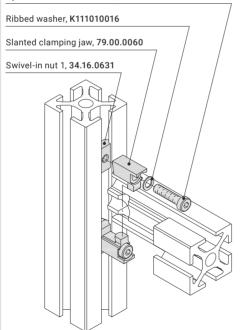
M6x25



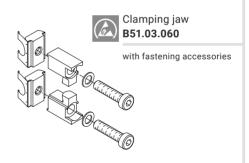
Tools starting on page 334 End services starting on page 16

Fastening example

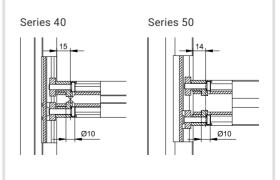
Cylinder head screw M6x25, D7984625



Series 40 end services BV, BW (15 mm distance) Series 50 end services BF, BG (14 mm distance) (ø 10 mm through-bore)



Dimensional sketch





Internal Fasteners

Bolt Fasteners

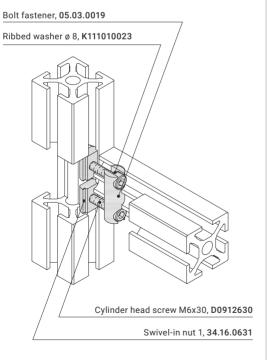
Bolt fasteners are compact and highly stable connectors. They are ideal for applications where you need a sturdy connection but want to avoid the obstructing edge produced by an angle. In order to use the bolt fastener, end service is required to provide a Ø 14 mm bore at a distance of 20 mm from the edge. Different variants allow you to use the connectors in Series 40 and Series 50 profiles.

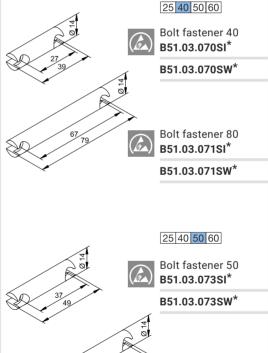
Material: Galvanised steel



End services starting on page 16

Fastening example





End services BY, BZ (ø 14 mm through-bore, 20 mm distance)

Bolt fastener 100 **B51.03.074SI***

B51.03.074SW*





Hinge Tension Plugs

Hinge tension plugs allow you to connect mitre-cut profiles. Profiles can be connected at all angles within +- 90°.

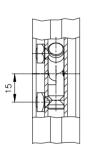
Material: Galvanised steel

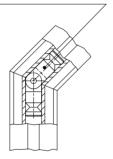


Tools starting on page 334 End services starting on page 16

Fastening example

Series 25 hinge tension plug, galv. steel, **B51.03.010**









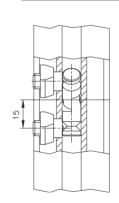
25 40 50 60 Hinge tension plug

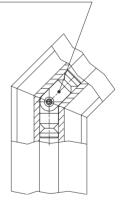
B51.03.010

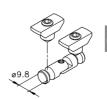
+- 90°

Fastening example

Series 40 hinge tension plug, galv. steel, **B51.03.011**









+- 90°

(ø 5.8 mm bore to centre, 15 mm distance)

(ø 10 mm bore to centre, 15 mm distance)

Internal Fasteners

Tension Plugs, Front Side

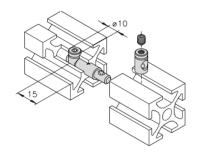
The tension plugs displayed here create gap-free connections between the faces of Series 40 profiles. In contrast to plate fasteners, all slots on the profiles remain free.

Material: Galvanised steel

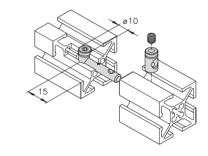


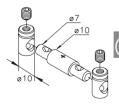
Tools starting on page 334 End services starting on page 16 25 40 50 60

Fastening example



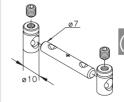
Fastening example





Tension plug, front side **B51.03.043**

for series 40 profiles, light duty and normal



Tension plug, front side **B51.03.044**

for series 40 profiles, extra light duty

(ø 10 mm through-bore)





Parallel Connectors

The tension plugs pictured here connect two profiles paraxially and seamlessly. The connector is fastened in the slot using the thrust part (ball with spring), which eases mounting in a vertical position. To be able to use the parallel connector, you have to drill an additional bore that is 90° to the throughbore; see the fastening example. A second connector ensures protection against twisting. Generally, a tension plug should be set at least every 1,000 mm.

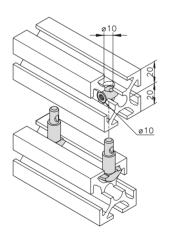
Material: Galvanised steel

25 40 50 60



Fastening example

Tools starting on page 334





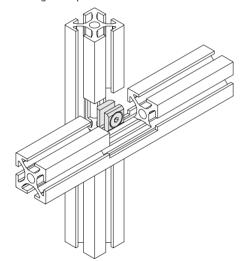
Tension plug, parallel **B51.03.042**

(ø 10 mm through-bore)

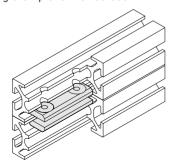


Tools starting on page 334

Fastening example for B51.03.055



Fastening example for B51.03.056



Internal Fasteners

Parallel Connectors

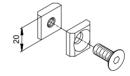
... Paraxial or Angled

Parallel connectors made from a countersunk nut, screws and a standard nut can be used to create a gap-free connection between two profiles, either paraxial or at an angle of your choosing (single parallel connector only). In the profile to which you are connecting, one or two Ø 10 mm bores are required at the spot of the connection to tighten the screw with an Allen key.

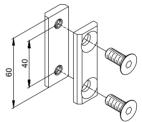
Material: Galvanised steel



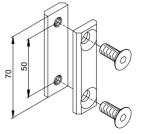




Parallel connector, single M8 **B51.03.055***



Parallel connector 2/40 double M8 **B51.03.056***



Parallel connector 2/50 double M8 **B51.03.057***

(ø 10 mm through-bore)





Parallel Connectors

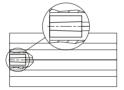
... without Machining

Non-machined parallel connectors are used to create gap-free, paraxial connections between two profiles without having to drill holes in the profile. When using parallel connectors, you can disconnect the profiles at any time.

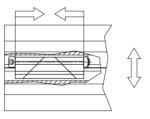
Material: Tumbled aluminium

Fastening example

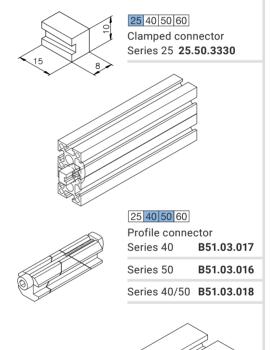






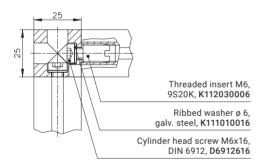


The tension causes the individual components of the connector to move against the slant, resulting in a clamping of the profile. 40/50 parallel connectors connect Series 40 profiles to Series 50 profiles.

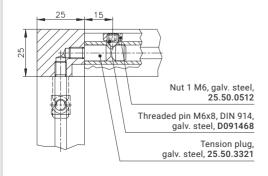


Tools starting on page 334 End services starting on page 16

Fastening example with open corner blocks



Fastening example for closed corner blocks



Corner Block Joints

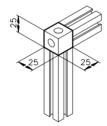
Corner Blocks

Corner blocks connect profile faces at corner joints. They produce smooth, aesthetically pleasing structures. The profile slots remain unobstructed on all sides. Open corner blocks are fastened using standard screws, while closed corner blocks are fastened with the included internal fastener.

Material: Tumbled aluminium

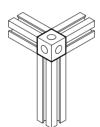


M6x16



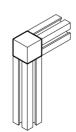
Corner block 25 **25.50.3300**

Connects 2 x mk 2025.01 profiles (example)



Corner block 26 25.50.3301

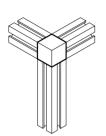
Connects 3 x mk 2025.01 profiles (example)



Corner block 30 **B46.05.001***

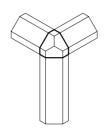
Connects 2 x mk 2025.01 profiles (example)





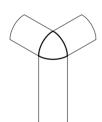
Corner block 31 **B46.05.002***

Connects 3 x mk 2025.01 profiles (example)



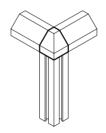
Corner block 35 **B46.05.006***

Connects 3 x mk 2025.38 profiles (example)



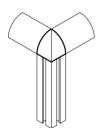
Corner block 32 **B46.05.003***

Connects 3 x mk 2025.37 profiles (example)



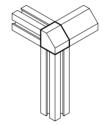
Corner block 36 **B46.05.007***

Connects 1 x mk 2025.01 profile 2 x mk 2025.38 profiles (examples)



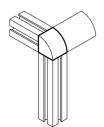
Corner block 33 **B46.05.004***

Connects 1 x mk 2025.01 profile 2 x mk 2025.37 profiles (examples)



Corner block 37 **B46.05.008***

Connects 2 x mk 2025.01 profiles 1 x mk 2025.38 profile (examples)



Corner block 34 **B46.05.005***

Connects 2 x mk 2025.01 profiles 1 x mk 2025.37 profile (examples)



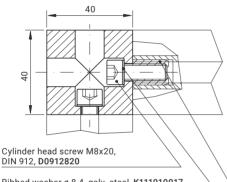
Corner block 38 **B46.05.009***

Connects 2 x mk 2025.39 profiles (example)

(ø 10 mm bore to centre, 15 mm distance)

(ø 10 mm bore to centre, 15 mm distance)

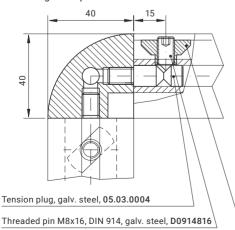
Fastening example with open corner blocks



Ribbed washer ø 8.4, galv. steel, K111010017

Threaded insert M8, 9S20K, K112030008

Fastening example for closed corner blocks



Corner Block Joints

Corner Blocks

Corner blocks connect profile faces at corner joints. They produce smooth, aesthetically pleasing structures. The profile slots remain unobstructed on all sides. Open corner blocks are fastened using standard screws, while closed corner blocks are fastened with the included internal fastener.

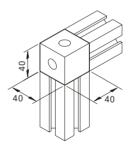
Material: Tumbled aluminium

25 40 50 60

M8x20

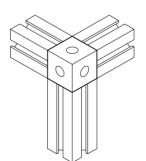


Tools starting on page 334 End services starting on page 16



Corner block 6 79.01.0006

Connects 2 x mk 2040.01 profiles (example)

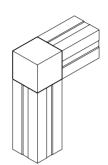


Corner block 5 **79.01.0005**

Connects 3 x mk 2040.01 profiles (example)

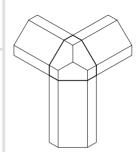
T-slot nut M8, galv. steel, 34.06.0003





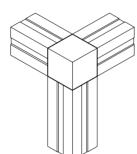
Corner block 40 **B46.05.041***

Connects 2 x mk 2040.11 profiles (example)



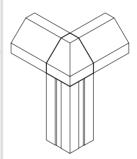
Corner block 43 **B46.05.044***

Connects 3 x mk 2040.14 profiles



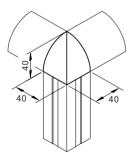
Corner block 39 **B46.05.040***

Connects 3 x mk 2040.11 profiles



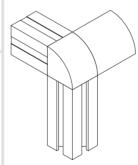
Corner block 44 **B46.05.045***

Connects 2 x mk 2040.14 profiles 1 x mk 2040.01 profile (example)



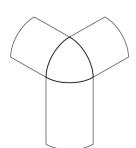
Corner block 42 **B46.05.043***

Connects 2 x mk 2040.15 profiles 1 x mk 2040.01 profile (example)



Corner block 46 **B46.05.039***

Connects 2 x mk 2040.11 profiles 1 x mk 2040.15 profile (example)



Corner block 41 **B46.05.042***

Connects 3 x mk 2040.15 profiles

(ø 10 mm bore to centre, 15 mm distance)

(ø 10 mm bore to centre, 15 mm distance)



Corner Block Joints

Corner Blocks

Corner block 48 below can be connected to mk 2040.19 profiles to create aesthetically pleasing connections at 45° or 135° angles, allowing you to build even complex structures.

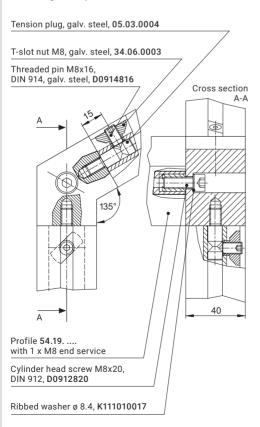
Material: Tumbled aluminium



Tools starting on page 334 End services starting on page 16 25 40 50 60

M8x20

Fastening example



135 20 40 40

Corner block 48 **B46.05.048***

for mk 2040.19 profiles

(ø 10 mm bore to centre, 15 mm distance)





Corner Blocks

Corner blocks connect profile faces at corner joints. They produce smooth, aesthetically pleasing structures. The profile slots remain unobstructed on all sides. To connect mk 2000 profiles, holder 5 is also inserted in the profile and screwed in place; see the fastening example on page 126.

Material: Tumbled aluminium

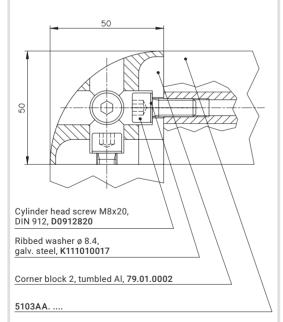
M8x20

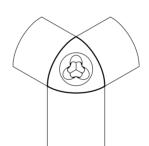
25 40 50 60



Tools starting on page 334 End services starting on page 16

Fastening example for mk 2003 profiles



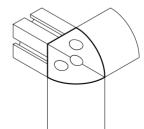


Corner block 1 **79.01.0001**

Connects 3 x mk 2003 profiles

B51.03.003

with cap



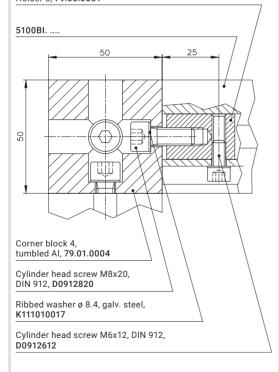
Corner block 2 **79.01.0002**

Connects 1 x mk 2000 profile 2 x mk 2003 profiles (example)

Tools starting on page 334 End services starting on page 16

Fastening example for mk 2000 profiles

Holder 5, 79.00.0001



Corner Block Joints

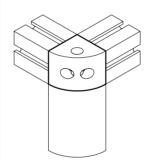
Corner Blocks

Corner blocks connect profile faces at corner joints. They produce smooth, aesthetically pleasing structures. The profile slots remain unobstructed on all sides. To connect mk 2000 profiles, holder 5 is also inserted in the profile and screwed in place; see the fastening example.

Material: Tumbled aluminium

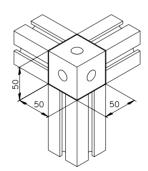






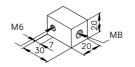
Corner block 3 **79.01.0003**

Connects 2 x mk 2000 profiles 1 x mk 2003 profile (example)



Corner block 4 **79.01.0004**

Connects 3 x mk 2000 profiles (example)



Holder 5 **79.00.0001**



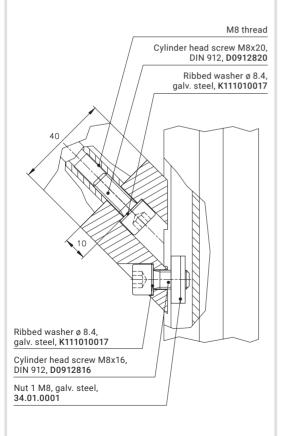


Truss Blocks

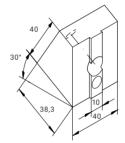
Truss blocks were specially developed to reinforce frames, frame structures, substructures, platforms, etc. and eliminate the need to mitre-cut the profiles. A rectangular connection requires two 45° truss blocks or one 30° and one 60° truss block. Various profiles can be used, for example the mk 2040.01.

Material: Tumbled aluminium

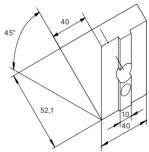
Fastening example



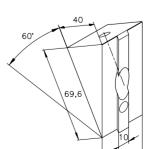
25 40 50 60



30° block **79.01.0062**



45° block **79.01.0066**



60° block **79.01.0068**



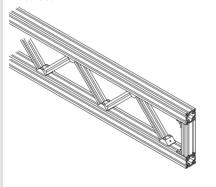
Corner Block Joints

Truss Blocks

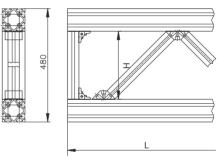
The truss blocks shown below allow you to create beam structures of any height and with combinations of different profiles. This allows large distances to be overcome and heavy loads to be carried. They can be used to build linear axis gantries, as well as for exhibit construction, etc. Describe your application to us and we'll supply you with the right truss along with the corresponding calculation.

Material: Tumbled aluminium

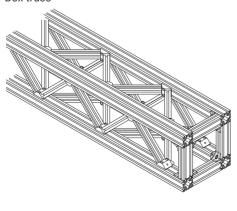
Truss beam



Example:



Box truss



Top and bottom profiles mk 2040.03 Strut profiles mk 2040.01

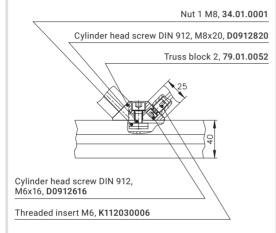
Ix 16,794.00 cm⁴ Iy 643.00 cm⁴ Wx 705.00 cm³ Wy 87.00 cm³

Strut length = $\sqrt{2} \cdot (H - 31.7)$ for strut 40 = $\sqrt{2} \cdot (H - 22.3)$ for strut 25

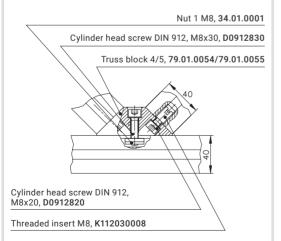
Number of struts $\approx \frac{L}{H}$

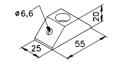


Fastening example 79.01.0052



Fastening example 79.01.0055

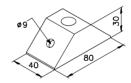




25 40 50 60

Truss block 2 **79.01.0052**

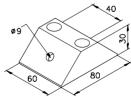
for 2 x mk 2025.01



25 40 50 60

Truss block 4 79.01.0054

for 2 x mk 2040.01



25 40 50 60

Truss block 5 **79.01.0055**

for 2 x mk 2040.01



Profile Clamps

mk clamps without a key can be used to connect profiles quickly, securely and at any angle. Clamps with a key ensure that the profiles remain rectangularly aligned. Arranging two clamps in opposite positions prevents the profiles from twisting.

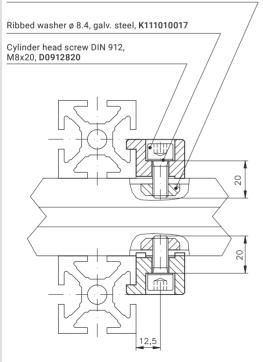
Material: Tumbled aluminium

25 40 50 60

M5x12

Fastening example

Nut 1 M8, galv. steel, 34.01.0001



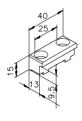








6 mm key width



Clamp 25/2 25.50.7002

6 mm key width

Adapter clamp for adapting Series 25 profiles to Series 40/50 profiles



25 40 50 60 M6x16

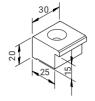
Clamp 40/25 30.00.0048

10 mm key width

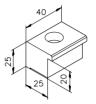








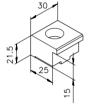
Clamp 5/30 30.00.0033



M8x25

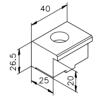
25 40 50 60

Clamp 1/40 30.00.0027



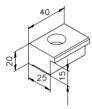
Clamp 6/30 30.00.0035

10 mm key width

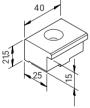


Clamp 2/40 30.00.0029

10 mm key width

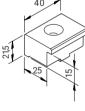


Clamp 5/40 30.00.0034



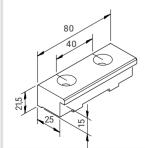
Clamp 6/40 30.00.0036

10 mm key width



Clamp 7/80 30.00.0037

10 mm key width





Series D28 Connectors

D28 90° Angle Fasteners

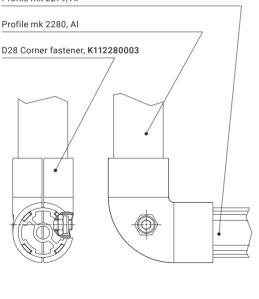
The D28 T-connector consists of two pre-assembled half shells and is attached using a screw-clamp connection on the longitudinal key of the mk 2279 profile and face of the mk 2279/2280 profiles.

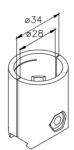
The D28 corner fastener consists of two pre-assembled half shells and is attached using a screw-clamp connection front side of the mk 2279/2280 profiles.

Material: die-cast aluminium

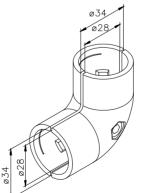
Fastening example

Profile mk 2279, Al





D28 T-connector **K112280001**



D28 Corner fastener **K112280003**



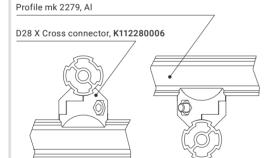


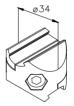
D28 Cross Connector

The D28 X cross connector provides a stable connection between two mk 2279 round tube profiles. The connector is attached to the longitudinal keys of the profiles using a screw-clamp connection at a 90° angle.

Material: die-cast aluminium

Fastening example





D28 X Cross connector **K112280006**



Series D28 Connectors

D28 Angle Fasteners

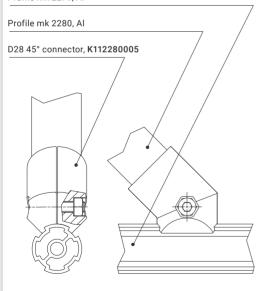
The D28 45° connector consists of two pre-assembled half shells and is attached using a screw-clamp connection on the longitudinal key of the mk 2279 profile and face of the mk 2279/2280 profiles.

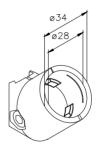
The D28 angle brace stabilises the corner joints of the mk 2279 profile. The connector also consists of two pre-assembled half shells and is attached using a screw-clamp connection on the longitudinal keys of the profiles. Series 40 corner joints can also be stabilised using the adapter D28/40.

Material: die-cast aluminium

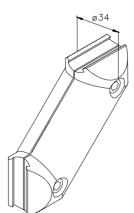
Fastening example

Profile mk 2279, Al





D28 45° connector **K112280005**



D28 Angle brace **K112280009**





D28 Ball Joint Connectors

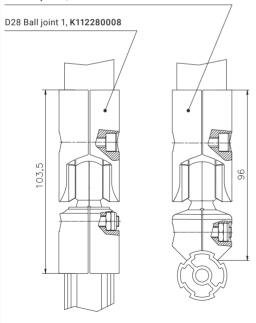
The ball joint connectors are suitable for variable connections between two Series D28 round tube profiles. Each consists of two pre-assembled half shells. Angles up to 90° can be fixed by tightening the screws.

D28 Ball joint 1 is attached using a screw-clamp connection front side of the profiles. D28 Ball joint 2 consists of two pre-assembled half shells and is attached using a screw-clamp connection on the longitudinal key of the mk 2279 profile and face of the mk 2279/2280 profiles.

Material: die-cast aluminium

Fastening example

D28 Ball joint 2, K112280010









Series D28 Connectors

D28 Parallel Connectors

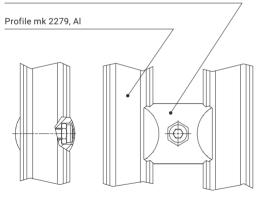
The parallel connector shown here provides a stable connection between two Series D28 round tube profiles that run parallel to each other. They consist of two pre-assembled half shells.

Parallel connector 1 D28 is attached using a screw-clamp connection on the longitudinal key of the mk 2279 profile. Parallel connector 2 D28 is attached using a screw-clamp connection on the longitudinal key of the mk 2279 profile and around the mk 2280 profile.

Material: die-cast aluminium

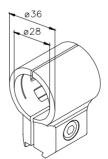
Fastening example







D28 Parallel connector 1 **K112280007**



D28 Parallel connector 2 K112280011





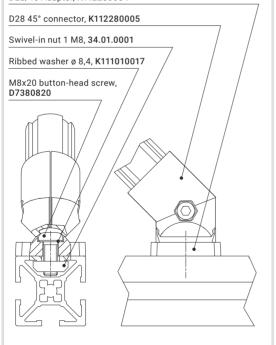
D28 Adapter for Series 40 Profiles

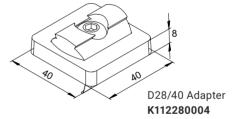
The D28/40 adapter enables a Series 40 profile to be used with Series D28 connectors. The adapter plate is fixed in the slot or attached to the face of a Series 40 profile, which allows a Series 28 screw-clamp connection to be attached.

Material: die-cast aluminium

Fastening example

D28/40 Adapter, K112280004





Set with fastening accessories



Nuts/T-nuts

Nuts

Nuts are mk's preferred mounting element for use with angles, plates and accessory components on the slot side. They can withstand heavy loads and are resistant to extraction. The variant with an additional spring sheet lets you fix the nuts in the profile slot so they can no longer move. This makes it significantly easier to install angles and accessory components in vertical slots. The ESD variant also ensures that the connection is conductive.

Material: Galvanised steel

25 40 50 60



Nut 1 (Series 25) Μ4 25.50.0540 M5 25.50.0500 25.50.0512





Nut 1 ESD (Series 25)

М6

M5	25.50.0508
M6	25.50.0518



Nut 2/25 (Series 25) M5 25.50.0504 25.50.0513 M6



Nut 2/25 ESD (Series 25)

M5 25.50.0505

25 40 50 60



Nut 1 M4	34.08.0001
M5	34.12.0001
M6	34.02.0008
M8	34.01.0001



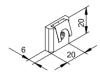
M4	1 ESD 34.08.0018
M5	34.12.0018
M6	34.02.0018
M8	34.01.0018
M6	34.02.0018

Nut 1 V	A 34.08.0004
M5	34.12.0004
M6	34.02.0012
M8	34.01.0024

Stainless steel

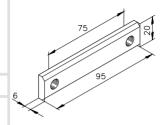






Nut 1 with spring sheet M6 34.02.0051

34.01.0051 M8



Nut 2/75

M8 34.01.0005

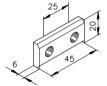


Nut 1 ESD with spring sheet

34.02.0050 M8 34.01.0050

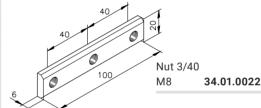
Nut 3/25

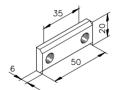
M8 34.01.0004



Nut 2/25

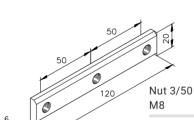
M6 34.02.0010 34.01.0002 M8

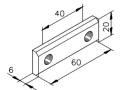




Nut 2/35

34.01.0011 M8

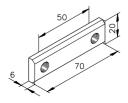




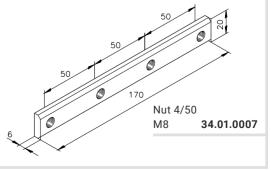
Nut 2/40

34.01.0019 M8





Nut 2/50 M8



34.01.0006

Nuts/T-nuts



Material: Galvanised steel

25 40 50 60



Nut 1 (Series 60)

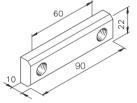
M8 34.60.0101 M10 34.60.0201

34.60.0301 M12

Nut 1 VA (Series 60)

M12 34.60.0321

Stainless steel



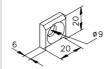
Nut 2/60

34.60.0203 M10

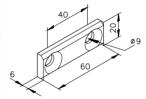
M12 34.60.0303



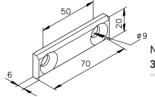
25 40 50 60



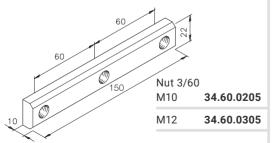
Nut S1 34.09.0001

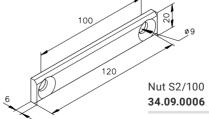


Nut S2/40 34.09.0007



Nut S2/50 34.09.0002









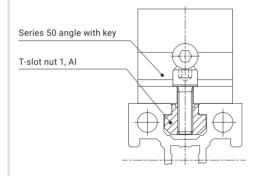
T-slot Nuts

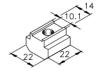
T-slot nut 1 allows you to connect Series 40/50 angles with a key to profiles from Series 60. Its geometry results in a precisely aligned connection that resists twisting in the Series 60 14 mm slot; see also the fastening example.

Material: Tumbled aluminium

25 40 50 60

Fastening example





T-slot nut 1 M6 34.60.2001 M8 34.60.2101



Nuts/T-nuts

Nuts for Later Mounting

Nuts for later mounting can be installed in the profile slot even if the profile's face is already sealed. In addition, they can be used for profiles with closed slots that are only open where the connection is located.

Material: Galvanised steel



25 40 50 60

Nut

M5 **D05625**



25 40 50 60

Swivel-in nut 1 (Series 25)

M4	25.50.0541
M5	25.50.0501



25 40 50 60

T-nut	
M4	34.07.0004
M5	34.07.0003
M6	34.07.0002
M8	34.06.0002



25 40 50 60

Slot nut

M6 **34.04.0003** M8 **34.03.0002**

Stainless steel



25	40	50	60

Slot nut

M8 **34.60.1101**M10 **34.60.1201**M12 **34.60.1301**

Clip

The insulating plastic clip serves to attach light, small parts such as nameplates, signs, holders for cable ties, etc.

Material: Plastic, galvanised steel threaded insert



25 40 50 60

Clip (series 40)

Clip (Series 40)		
M4	K111020006	
M5	K111020007	
M6	K111020008	

25 40 50 60

Clip (series 50)

M4	34.14.0006
M5	34.14.0007
M6	34.14.0008





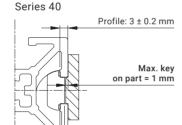
Nuts for Later Mounting

Swivel-in nuts with a spring sheet can be installed in the profile slot even if the profile's face is already sealed. The spring sheet fixes the nut in place, making it much easier to install attachment parts in a vertical position. The ESD function ensures that the connection is conductive.

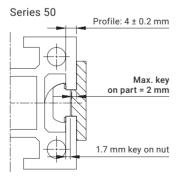
Attention: Note the maximum key height on the part to be attached; see the fastening example.

Material: Galvanised steel

Fastening example



1.7 mm key on nut



The key height of the attached part, e.g. for an angle, may not exceed 1 mm for Series 40 and 2 mm for Series 50, otherwise there will be no traction between the profile and nut.

25 40 50 60





Swivel-in nut 1 ESD with spring sheet

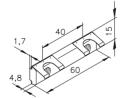
M4 34.16.0431 M5 34.16.0531 M6 34.16.0631 M8 34.16.0831



Swivel-in nut 1 ESD with spring sheet

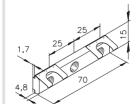
M5 **34.16.0537** M6 **34.16.0637** M8 **34.16.0837**

Stainless steel





Swivel-in nut 2/40 ESD with spring sheet M8 34.16.0834





Swivel-in nut 3/25 ESD with spring sheet M8 **34.16.0835**



Nut Fixture

... with a Spring Clip

Series 25 nuts also offer the option of fixing them with a spring clip. Together with the nut, the clip is inserted into the profile slot from the face and fixes the nut in the desired position.

Material: Spring steel



25 40 50 60

Spring clip for M5/M6 nut 07.13.0003

Nuts/T-nuts

Nut Fixture

... with Retaining Plugs

If nuts with a spring sheet are not available, retaining plugs can also be used to fix standard nuts. This makes mounting attachment parts much easier. The retaining plug is pressed into the nut's thread and then slid into the profile slot from the face. Unlike the nut with spring sheet, this type of attachment can only be used once because tightening the screws displaces the plastic on the retaining plug.

Material: PE plastic



25 40 50 60

Retaining plug, green, M5 mk 2553



25 40 50 60

Retaining plug, white, M6 **mk 2554**



25 40 50 60

Retaining plug, red, M8 mk 2555



25 40 50 60

Retaining plug, yellow, M6 mk 2556



25 40 50 60

Retaining plug, blue, M8 mk 2557



25 40 50 60

Retaining plug, orange, M10 **mk 2559**



25 40 50 60

Retaining plug, purple, M12 mk 2560

Standard Parts



Cylinder Head Screws



DIN EN ISO 4762 / DIN 912 8.8 galvanised steel

o.o garvariiseu si	CCI
M4x10	D0912410
M5x8	D091258
M5x10	D0912510
M5x12	D0912512
M5x16	D0912516
M6x10	D0912610
M6x12	D0912612
M6x16	D0912616
M6x20	D0912620
M8x12	D0912812
M8x16	D0912816
M8x20	D0912820
M8x25	D0912825
M8x30	D0912830
M8x35	D0912835
M8x40	D0912840
M12x20	D09121220
M12x25	D09121225

DIN EN ISO 4762

A2-70 stainless steel

M8x16	D0912816A2
M8x20	D0912820A2



DIN 6912 8.8 galvanised steel

o.o garvariisca v	31001	
M5x8	D691258	
M5x10	D6912510	
M5x12	D6912512	
M5x20	D6912520	
M6x16	D6912616	
M6x20	D6912620	
M8x16	D6912816	
M8x20	D6912820	
M8x25	D6912825	
M8x30	D6912830	
M10x25	D69121025	
M12x30	D69121230	

DIN 6912

A2-70 stainless steel

M8x16	D6912816A2
M8x20	D6912820A2

Countersunk Head Screws



DIN EN ISO 10642 8.8 galvanised steel

M4x6	D799146
M4x10	D7991410
M4x12	D7991412
M4x16	D7991416
M5x8	D799158
M5x10	D7991510
M5x12	D7991512
M5x16	D7991516
M5x25	D7991525
M6x10	D7991610
M6x12	D7991612
M6x16	D7991616
M6x20	D7991620
M8x12	D7991812
M8x16	D7991816
M8x20	D7991820
M8x25	D7991825
M8x30	D7991830

DIN EN ISO 10642

A2-70 stainless steel

M4x10	D7991410A2
M4x16	D7991416A2
M4x35	D7991435A2
M5x8	D799158A2
M5x10	D7991510A2
M6x12	D7991612A2
M6x16	D7991616A2
M8x16	D7991816A2
M8x20	D7991820A2
M8x35	D7991835A2

Standard Parts

Flanged Button-Head Screws



10.9 black, galvanised steel K112010028 M5x8 M5x10 K112010021 M5x12 K112010022 M6x8 K112010010 M6x10 K112010011 M6x12 K112010012 M6x16 K112010013 M8x12 K112010002 K112010003 M8x16 M8x20 K112010004

A2 stainless steel

M8x12	K112010102
M8x16	K112010103
M8x20	K112010104



Captive,

10.9 black, galvanised steel M8x16 **71.01.0019**

Captive

A2 stainless steel

M8x16 **71.01.0019A2**

Hexagon Head Screws



DIN EN ISO 4017 8.8 galvanised steel

M6x8	D093368
M6x16	D0933616
M6x20	D0933620
M6x25	D0933625
M6x30	D0933630
M6x35	D0933635
M8x12	D0933812
M8x16	D0933816
M8x20	D0933820
M8x25	D0933825
M8x30	D0933830
M8x35	D0933835
M8x40	D0933840
M10x20	D09331020
M10x25	D09331025
M10x30	D09331030
M12x30	D09331230

DIN EN ISO 4017

A2-70 stainless steel

M8x16	D0933816A2
M8x20	D0933820A2
M8x25	D0933825A2

Threaded Insert



 Galvanized steel, yellow chromated

 M3x6
 K112030002

 M5x10
 K112030005

 M6x12
 K112030006

 M8x15
 K112030008

 M12x22
 K112030010

Helicoil





Threaded Pins



DIN EN ISO 4027 45H galvanized steel

M4x6	D091446
M4x8	D091448
M4x10	D0914410
M5x6	D091456
M5x8	D091458
M5x10	D0914510
M6x6	D091466
M6x8	D091468
M6x10	D0914610
M8x10	D0914810
M8x12	D0914812
M8x16	D0914816
M8x20	D0914820

DIN EN ISO 4027

A1 stainless steel

M6x6	D091466A2
M6x8	D091468A2
M6x10	D0914610A2
M8x10	D0914810A2
M8x16	D0914816A2

Ribbed Washers



Galvanised steel	(EA)
ø 4.3	K111010014
ø 5.3	K111010015
ø 6.4	K111010016
ø 8.4	K111010017
ø 10.5	K111010018
ø 13	K111010019

Stainless steel	
ø 4.3	K111010020
ø 5.3	K111010021
ø 6.4	K111010022
ø 8.4	K111010023
ø 10.5	K111010024
ø 13	K111010025



Galvanised steel	
ø 7	K111010046
Stainless steel	
- 7	V44404004CA0

Hexagon Nuts



DIN EN ISO 4032 8 galvanised steel

o garramoca oteci		
M5	D09345	
M6	D09346	
M8	D09348	
M10	D093410	
M12	D093412	

DIN EN ISO 4032 A2-70 stainless steel

M5	D09345A2
M6	D09346A2
M8	D09348A2

Tension Washers



Galvanised steel	
ø 8.4	D67968
Stainless steel	
a 2 1	D67068A2

Section 4 Covers/Wear Strips

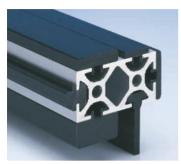






End Caps 150 Closure Strips 154 Cover Profiles







160

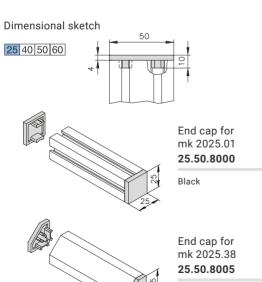
Brush Strips

Wear Strips

Wear Strips 156
Wear Strips for Door Stops 158

Wear Strips for Sliding Elements 159

End cap for the D28 round tube profile mk 2582



Black

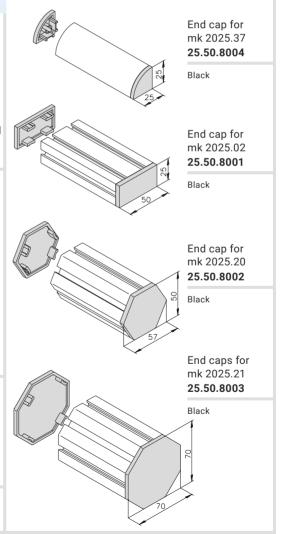
End Caps

End Caps

End caps made from high-quality plastic provide dependable closure of profile faces. They protect against sharp cut surfaces and provide for a clean closure and high-quality look. The end caps are fastened to the profile simply by placing them on the end.

Material: Plastic

25 40 50 60



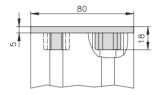


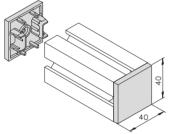
End Caps

Material: Plastic

25 40 50 60

Dimensional sketch



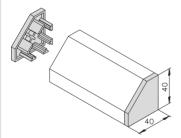


End cap for 40 x 40 profiles **mk 2507**

Black

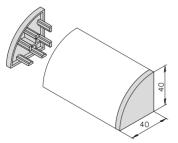
mk 2507SI*

Silver grey



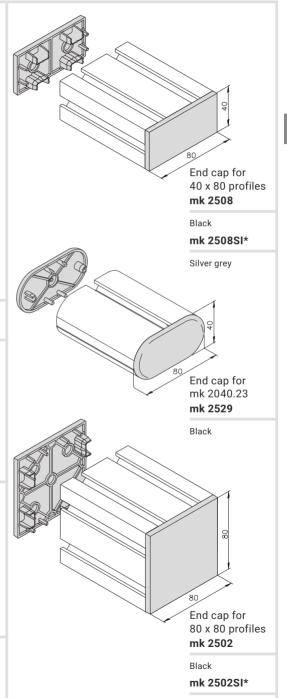
End cap for mk 2040.14 mk 2523

Black



End cap for mk 2040.15 **mk 2524**

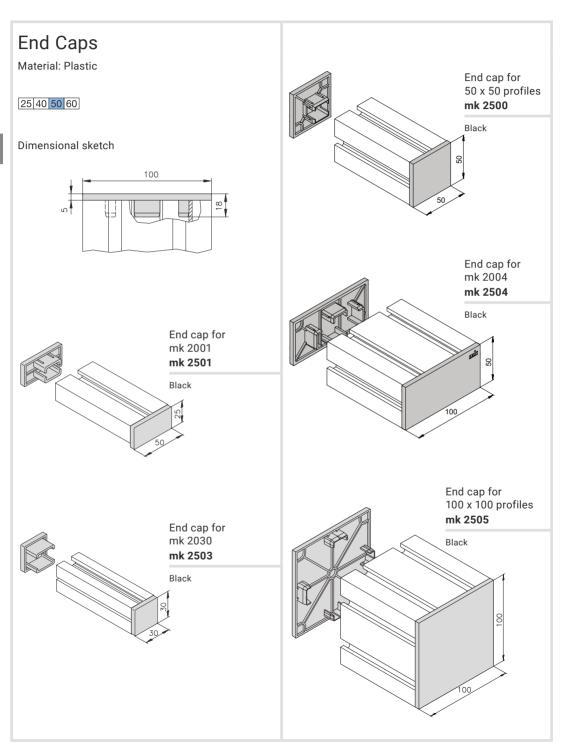
Black



Silver grey

^{*}Not suitable for cleanroom applications

End Caps



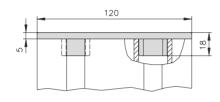


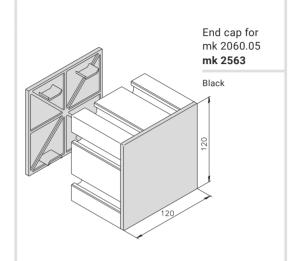
End Caps

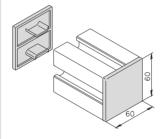
Material: Plastic

25 40 50 60

Dimensional sketch







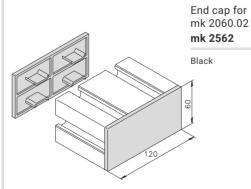
End cap for mk 2060.01

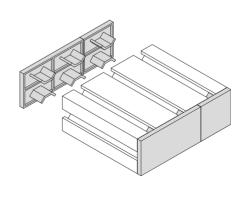
mk 2561

Black

Note:

For larger profiles, multiple end caps can be used to cover the profile. For the mk 2040.05 profile, for example, you can use mk 2507 and mk 2508 end caps.







Closure Strips

Closure Strips

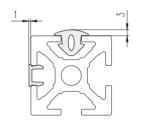
Closure strips prevent dirt from getting in the slots and provide for a high-quality look. Multi-coloured variants can be used to provide visual highlights and/or draw attention to the supply lines that might be located beneath it. Aluminium closure strips provide seamless closure of the slot but cannot be removed undamaged once they are hammered in.

Information required for ordering

- Item number
- Length in mm

Fastening example







25 40 50 60

Closure strip **mk 3026** black

PVC-P plastic (soft)



25 40 50 60

Closure strip

PVC-P plastic (soft)



25 40 50 60

Closure strip **mk 3012** black

mk 3013 grey

mk 3014 blue

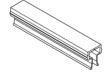
mk 3015 yellow

mk 3016 green

mk 3017 red

mk 3019* silver grey

PVC-U plastic (hard), 2000 mm stock length



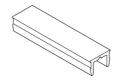
25 40 50 60

Profile mk 2225

0.08 kg/m

Stock length **52.25.6000**Cut **52.25.....**

Anodised aluminium



25 40 50 60

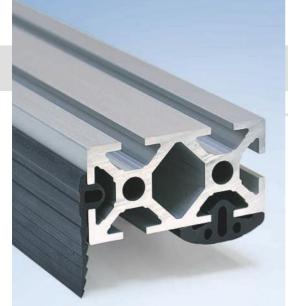
Profile mk 2060.30

0.14 kg/m

 Stock length
 60.30.2000

 Cut
 60.30.....

Anodised aluminium

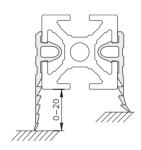


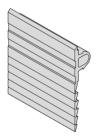


Cover Profiles

Cover profiles close the profile slot while also serving as a stop for sliding doors or as a non-slip support. The mk 3025 and mk 3011 cover profiles close gaps while also having a damping and sealing effect. The mk 3030 cover profile closes openings up to 20 mm wide between objects. The height of the profile can be adapted to the local conditions by simply separating the longitudinal segments.

Fastening example





25 40 50 60

Cover profile **mk 3030** black

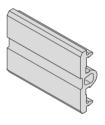
EPDM rubber



25 40 50 60

Cover profile mk 3025 black

TPE rubber

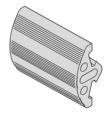


25 40 50 60

Cover profile **mk 3032** black

EPDM rubber,

for profiles to which panelling is attached



25 40 50 60

Cover profile **mk 3035** black

mk 3036 grey

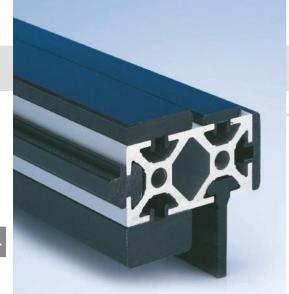
PVC-P plastic (soft)



25 40 50 60

Cover profile **mk 3011** black

EPDM rubber



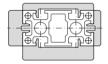
Wear Strips

Wear Strips

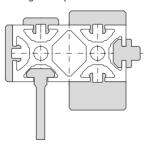
Wear and guide strips are low-wear plastic strips. They ensure low friction in a wide range of applications and protect the profile surface from abrasion. mk wear strips are available for all profile series in a stock length of 2000 mm. ESD (antistatic) designs and designs for high temperatures up to 60° are also available on request.

Material: PE-1000 black

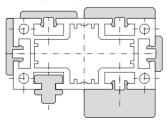
Series 25 fastening example

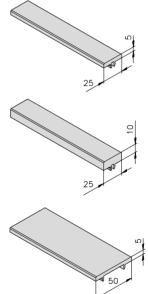


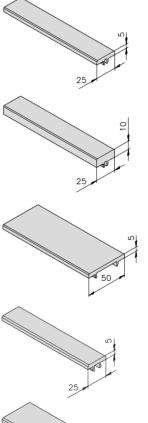
Series 40 fastening example

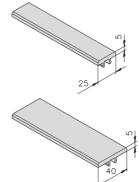


Series 50 fastening example









25 40 50 60

Wear strip mk 1025.71 25.71.2000

25 40 50 60

Wear strip mk 1025.72 25.72.2000

25 40 50 60

Wear strip mk 1025.73 25.73.2000

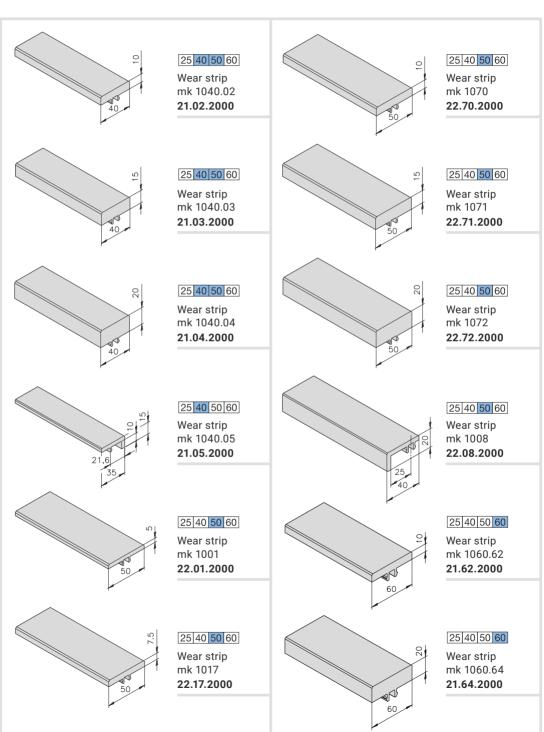
25 40 50 60

Wear strip mk 1000 22.00.2000

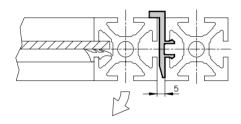
25 40 50 60

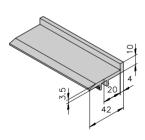
Wear strip mk 1040.01 21.01.2000





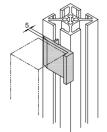
Fastening example





25 40 50 60

Wear strip mk 1090 **22.90.2000**



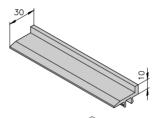
Stop for swing doors (for 5 mm door gap) 22.90.0035

Wear Strips

Wear Strips for Door Stops

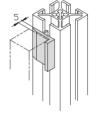
The mk 1090, mk 1091 and mk 1092 wear strips act as a gentle stop for doors.

Material: PE-1000 black



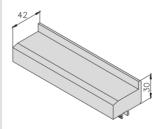
25 40 50 60

Wear strip mk 1091 **22.91.2000**



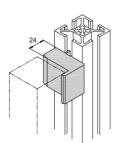
Stop for sheet metal doors (for 5 mm door gap)

22.91.0035



25 40 50 60

Wear strip mk 1092 **22.92.2000**



Stop for swing doors (for 24 mm door gap) 22.92.0035





Wear Strips for Sliding Elements

These wear strips serve as low-wear guides for sliding elements such as custom-designed, manual carriages, sliding doors, lifting doors and lifts.

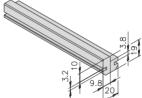
Material: PE-1000 black



9.8 7.8 10 20

25 40 50 60

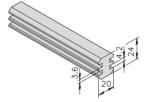
Wear strip mk 1026 22.26.2000



25 40 50 60

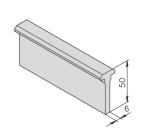
Wear strip mk 1027 22.27.2000





25 40 50 60

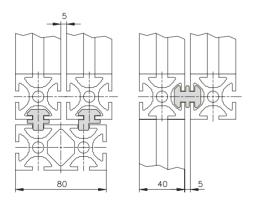
Wear strip mk 1021 **22.21.2000**

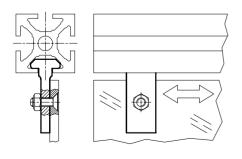


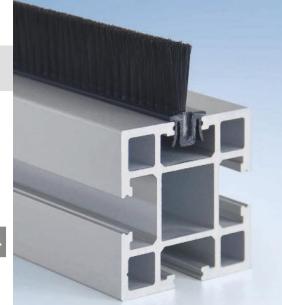
25 40 50 60

Wear strip mk 1009 **22.09.2000**

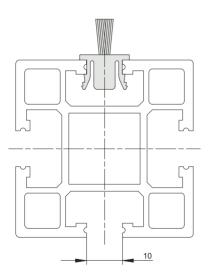








Fastening example

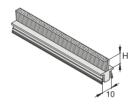


Brush Strips

Brush Strips

Brush strips provide an ideal solution for creating secure seals on machine housings, flaps, apertures or for guiding and carrying processes in conveyor technology. Their flexible fibres allow them to be used to reliably fasten fragile parts in charge carriers and countless other possible solutions. The brush strips can be integrated into new structures simply by sliding them in, or into existing structures by clipping them in once the structure is already built. The brush strips have a stock length of 1000 mm.

Material: PA6 plastic



25 40 50 60

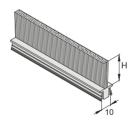
Brush strip H = 10 mm **K115030010**

H = 15 mm

K115030015

H = 20 mm **K115030020**

ø 0.15 mm bristles



25 40 50 60

Brush strip H = 25 mm **K115030025**

H = 30 mm

K115030030

ø 0.2 mm bristles

Note: Brush strips can accumulate static charge.

4

Notes



Section 5 Floor Elements





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Stainless Steel
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Plates for Levelling Feet

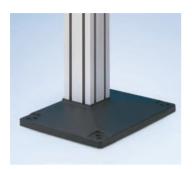
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Floor Plates 178

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Base Plates Heavy-Duty Base Plates



Support Brackets

Support Brackets Retaining Angles

182

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Fixed and Swivel Casters

186 Fixed and Swivel Casters,
 188 Type A
 Fixed and Swivel Casters,
 Type B

191

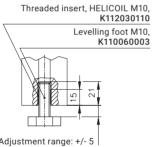


Levelling Feet

The M8 and M10 levelling feet are the simplest method of compensating for slightly uneven surfaces. They have an adjustment range of 10 mm. For Series 40 profiles, they are screwed into a threaded insert in the centre of the profile. For Series 50 profiles, e.g. the mk 2000, they are threaded into holder 7, which is inserted into the centre of the profile.

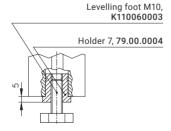
Material: Galvanised steel spindle, PE plastic foot base

Series 40 fastening example



Adjustment range: +/- 5

Series 50 fastening example





25 40 50 60

Levelling foot M8 K110060004

Levelling foot M10 K110060003

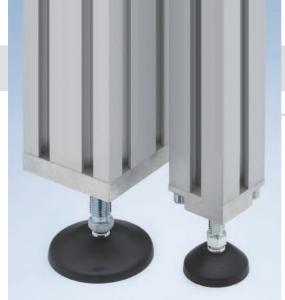
1,000 N load capacity



25 40 50 60

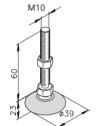
Holder 7 79.00.0004

for mk 2000 profile Tumbled aluminium



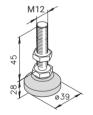


Levelling feet serve to stabilize machine frames, belt conveyors, industrial workstations, etc. They are always fastened to the profile using the appropriate plate for levelling feet. All levelling feet have an adjustment range to compensate for height differences. Variants with a ball joint have a swivel range of about $\pm\,20^\circ$, allowing them to compensate for slanted surfaces.



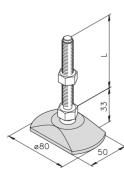
Levelling foot ø 45 M10 **B67.02.057**

Adjustment range = 40 mm 750 N load capacity with ball joint



Levelling foot ø 39 M12 **B67.02.076**

Adjustment range = 20 mm 1,000 N load capacity



Levelling foot Ø 80 M12 **B67.02.077**

Spindle length L = 50 mm Adjustment range = 15 mm

Levelling foot ø 80 M12 **B67.02.027**

Spindle length L = 75 mm Adjustment range = 40 mm

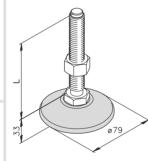
Levelling foot ø 80 M16 **B67.02.028**

Spindle length L = 85 mm Adjustment range = 45 mm

1,000 N load capacity with ball joint

25 40 50 60

Material: Galvanised steel spindle, PA plastic foot base



Levelling foot ø 79 M12 **B67.02.075**

Spindle length L = 50 mm Adjustment range = 15 mm

Levelling foot ø 79 M12 **B67.02.001**

Spindle length L = 75 mm Adjustment range = 40 mm

Levelling foot ø 79 M16 **B67.02.002**

Spindle length L = 85 mm Adjustment range = 45 mm

Glass fibre reinforced foot base,

1,500 N load capacity, with ball joint

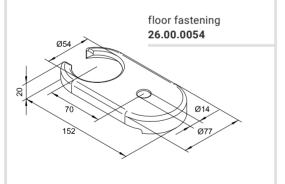


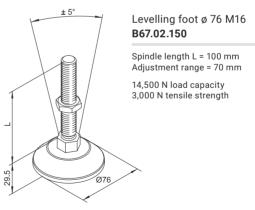
Levelling Feet

A floor fastener can be used to fix "levelling foot \emptyset 76 M16" in place to prevent it from sliding or lifting off the floor. With this levelling foot, the spindle is screwed in from underneath.

25 40 50 60

Material: Galvanised steel spindle, die-cast zinc foot base









... with Ball Joints

Levelling feet with an anti-slip plate prevent the foot from slipping and provide a slight damping effect. The anti-slip plates are made from a thermoplastic elastomer and can be attached or removed later as needed. They are resistant to oil and water up to 60°.

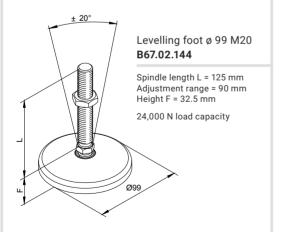
25 40 50 60

Material: Galvanised steel spindle, die-cast zinc foot base

Levelling foot ø 99 M16 **B67.02.141**

Spindle length L = 100 mm Adjustment range = 70 mm Height F = 29.5 mm

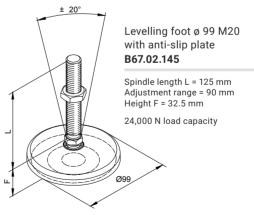
14,500 N load capacity



Levelling foot ø 99 M16 with anti-slip plate **B67.02.142**

Spindle length L = 100 mm Adjustment range = 70 mm Height F = 29.5 mm

14,500 N load capacity





Levelling Feet with Mounting Bores

... with Ball Joints

Levelling feet serve to stabilize machine frames, belt conveyors, industrial workstations, etc. Levelling feet with mounting bores in their foot base can be anchored to the floor. Because of the ball joint, they can withstand a maximum tensile load of 200 N.

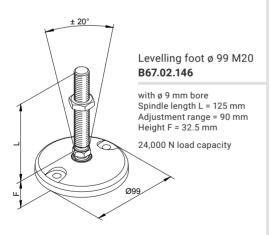
25 40 50 60

Material: Galvanised steel spindle, die-cast zinc foot base

Levelling foot ø 99 M16 **B67.02.143**

with Ø 9 mm bore Spindle length L = 100 mm Adjustment range = 70 mm Height F = 29.5 mm

14,500 N load capacity



Levelling foot ø 119 M20 **B67.02.147**

with ø 9 mm bore Spindle length L = 100 mm Adjustment range = 65 mm

Levelling foot ø 119 M20 **B67.02.148**

with ø 9 mm bore
Spindle length L = 125 mm
Adjustment range = 90 mm

Levelling foot ø 119 M20

B67.02.149

with ø 9 mm bore
Spindle length L = 150 mm
Adjustment range = 115 mm

24,000 N load capacity





Stainless Steel Levelling Feets

... with Ball Joints

With stainless steel levelling feet, either the foot base or the entire levelling foot including the spindle and nut are made from stainless steel, making them ideal for use in cleanrooms and for meeting FDA requirements.

Material: Stainless steel foot base; galvanised steel spindle and hexagon nut

25 40 50 60

Material: Entirely stainless steel

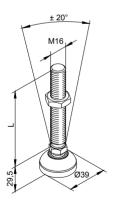
Levelling foot ø 39 M16 **B67.02.129**

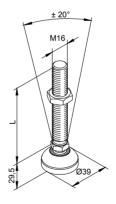
Spindle length L = 100 mm Adjustment range = 70 mm

B67.02.130

Spindle length = 200 mm Adjustment range = 170 mm







Levelling foot ø 39 M16 **B67.02.135**

Spindle length L = 100 mm Adjustment range = 70 mm

B67.02.136

Spindle length = 200 mm Adjustment range = 170 mm

14,500 N load capacity



Stainless Steel Levelling Feets

The levelling feet shown here are made entirely from stainless steel and are therefore ideal for use in cleanrooms or for meeting FDA requirements in food production applications. The foot's domed shape also ensures that liquids will run off. The height adjustment and swivel range allows the levelling foot to compensate for height differences and uneven surfaces. In addition, they can be anchored to the floor.

25 40 50 60

Material: Stainless steel foot base, spindle and hexagon nut

Levelling foot ø 110 M16 **B67.02.080**

Spindle length L = 50 mm Adjustment range = 16 mm

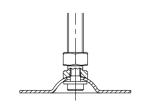
B67.02.081

Spindle length L = 100 mm Adjustment range = 66 mm

B67.02.082

Spindle length L = 150 mm Adjustment range = 116 mm

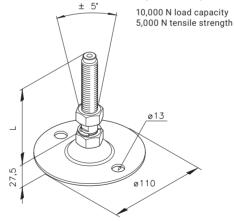
10,000 N load capacity 5,000 N tensile strength

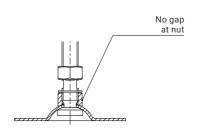


± 7,5°

Levelling foot ø 110 M16 **B67.02.087**

Spindle length L = 90 mm Adjustment range = 40 mm









Stainless Steel Levelling Feets

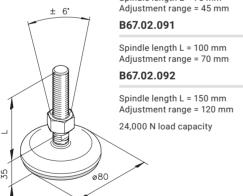
The levelling feet shown here rest atop a vulcanised rubber base that is permanently attached to the stainless steel foot base and that provides anti-slip. damping and sealing effects. The sanitary design has a thread that is completely covered by the adiustina sleeve.

25 40 50 60

Material: Stainless steel foot base, spindle and hexagon nut, NBR plastic damper

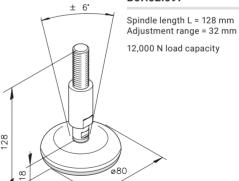
Levelling foot ø 80 M16 B67.02.090

Spindle length L = 75 mm



Sanitary design

Levelling foot ø 80 M16 B67.02.097





Plates for Levelling Feet

Holders for Levelling Feet

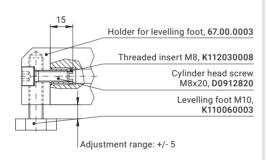
... for Horizontal Profiles

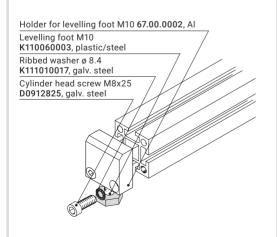
Holders for levelling feet are primarily used for securely attaching levelling feet, but they can also be used for fixed and swivel casters and for lifting devices. Holders are available for all standard profiles and levelling foot threads.

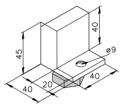
1,000 N load capacity

Material: Tumbled aluminium

Fastening example





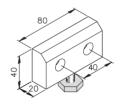


M8x16 DIN 7991

25 40 50 60 Holder for

levelling foot M10

without floor levelling screw for 40 x 40 profile

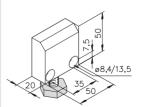


M8x20

25 40 50 60

Holder for levelling foot M10 67.00.0003

without floor levelling screw for 40 x 80 profile



M8x20

25 40 50 60

Holder for levelling foot M10 **67.00.0002**

without floor levelling screw for mk 2000 profile





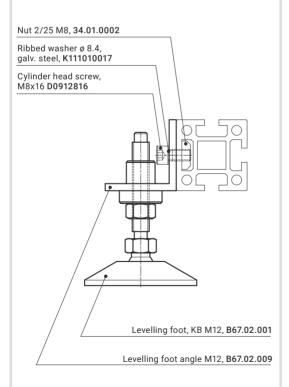
Holders for Levelling Feet

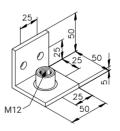
... for Horizontal Profiles

Levelling foot angles act as holders for levelling feet, fixed/swivel casters and lifting devices. They can be attached quickly and without profile services, and they provide additional stability.

Material: Galvanised steel

Fastening example





M8x16

25 40 50 60

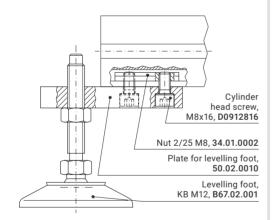
Levelling foot angle M12 **B67.02.009**

Levelling foot angle M16 **B67.02.010**

1,500 N load capacity



Fastening example



Plates for Levelling Feet

Holders for Levelling Feet

... for Horizontal Profiles

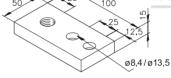
The following foot plates act as holders for levelling feet, fixed/swivel casters and lifting devices. They can be attached quickly and without profile services. Foot plate F M16 can also be anchored directly to the floor.

Material: Tumbled aluminium

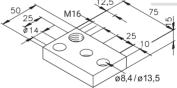
25 40 **50** 60 M8x16

Foot plate D M12 50.02.0010

Foot plate D M16 50.02.0011

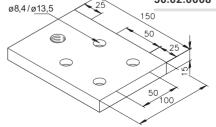


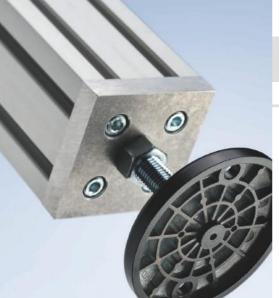
Foot plate F M16 50.02.0018



Foot plate G M16 50.02.0007

Foot plate G M20 50.02.0008







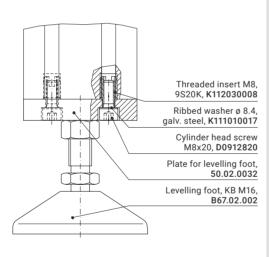
Foot Plates

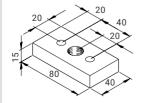
... for Vertical Profiles

Foot plates act as holders for levelling feet, fixed/ swivel casters and lifting devices. They are fastened to the face of a vertical profile.

Material: Tumbled aluminium

Fastening example





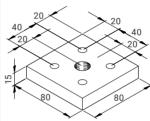
Foot plate I M10 **50.02.0041**

Foot plate I M12 **50.02.0035**

Foot plate I M16 50.02.0030

for mk 2040.02, mk 2040.41, mk 2040.52 profiles 6,000 N load capacity

25 40 50 60 M8x20



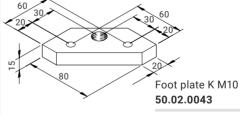
Foot plate J M10 50.02.0042

Foot plate J M12 **50.02.0067**

Foot plate J M16 50.02.0032

Foot plate J M20 **50.02.0050**

for mk 2040.03, mk 2040.45 profile



Foot plate K M16 **50.02.0040**

for mk 2040.04 profile





Plates for Levelling Feet

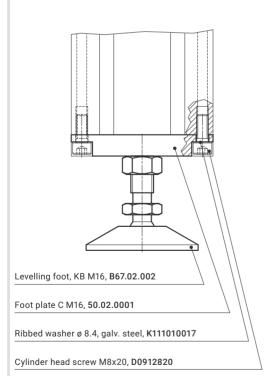
Foot Plates

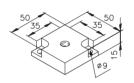
... for Vertical Profiles

Foot plates act as holders for levelling feet, fixed/ swivel casters and lifting devices. They are fastened to the face of a vertical profile.



Fastening example



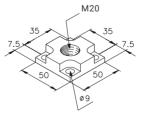


Foot plate A M10 50.09.0013

Foot plate A M12 50.09.0044

Foot plate A M16 50.09.0045

for mk 2000 profile Tumbled aluminium

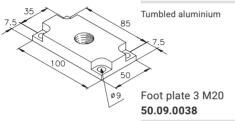


Foot plate 1 M20 50.09.0037

for mk 2000 profile Galvanised steel



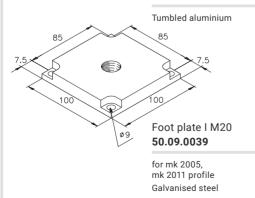




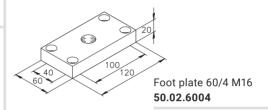
for mk 2004 profile Galvanised steel

Foot plate C M16 **50.02.0001**

Foot plate C M20 **50.02.0002**

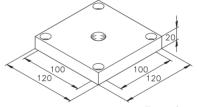






Foot plate 60/5 M20 **50.02.6005**

for mk 2060.02 profile Tumbled aluminium



Foot plate 60/8 M16 **50.02.6008**

Foot plate 60/9 M20 **50.02.6009**

for mk 2060.05 profile Tumbled aluminium



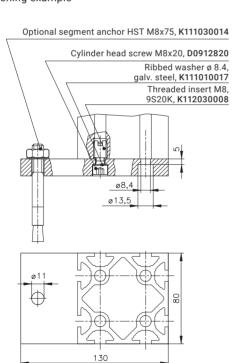
Floor Plates

Floor Plates

Floor plates, whether referred to as base plates or just plates, are used to fasten stands, protective panels, industrial workstations, machine frames, platforms and much more to the floor. They are installed front side of a vertical profile and anchored to the floor with a fastener, for example a segment anchor. They can also be used as flanging on other profiles.

Material: Tumbled aluminium

Fastening example



25 40 50 60 M8x20

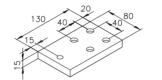
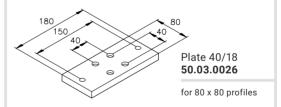
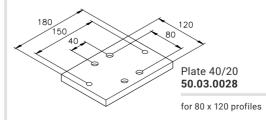


Plate 40/17 **50.03.0025**

for 80 x 80 profiles









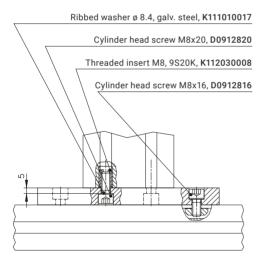
Floor Plates

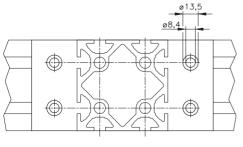
Material: Tumbled aluminium

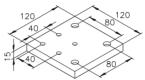
25 40 50 60

M8x20

Fastening example

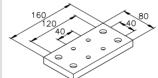






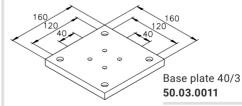
Base plate 40/1 **50.03.0009**

for 80 x 80 profiles

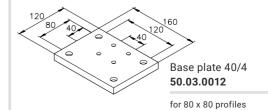


Base plate 40/2 **50.03.0010**

for 80 x 80 profiles

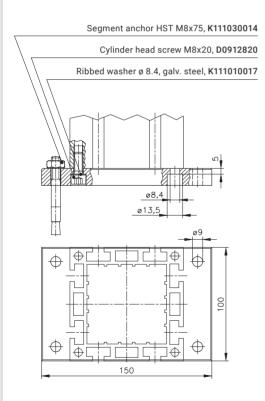


for 80 x 80 profiles





Fastening example

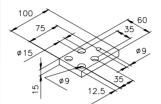


Floor Plates

Floor Plates

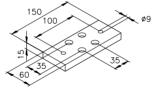
Material: Tumbled aluminium

25 40 **50** 60 M8x20



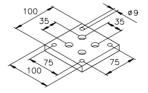
Base plate 1 50.03.0001

for mk 2000, mk 2017, mk 2018 and mk 2019 profile



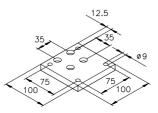
Base plate 2 50.03.0002

for mk 2000, mk 2017, mk 2018 and mk 2019 profile



Base plate 4 50.03.0003

for mk 2000, mk 2017, mk 2018 and mk 2019 profile



Base plate 4a 50.03.0004

for mk 2000, mk 2017, mk 2018 and mk 2019 profile

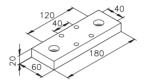


150 Base plate 5 50.03.0005 for mk 2004 profile ø8.4 Base plate 6 50.03.0006 for mk 2004 profile Base plate 7 50.03.0007 for mk 2005 and mk 2011 profile 85 Base plate 8 50.03.0008 125 for mk 2005 and mk 2011 profile 125

Floor Plates

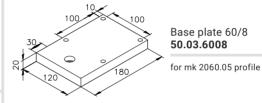
Material: Tumbled aluminium

25 40 50 60 M8x20

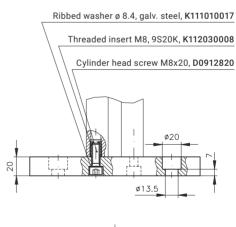


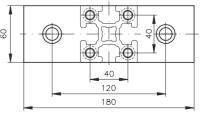
Base plate 60/2 **50.03.6002**

for mk 2060.01 profile



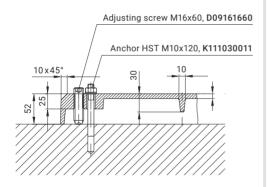
Fastening example

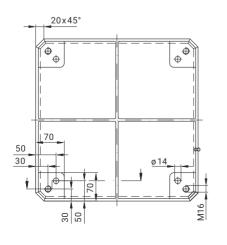






Fastening example





Base Plates

Base Plates

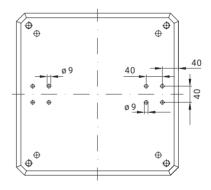
Base plates provide stability for machines, frames, stands, guarding or other equipment. On request, we will be happy to design a base plate for your particular application or manufacture it according to your drawing of the drilling pattern. It is also possible to insert threads or bores into the corners of the base plate.

The assembly kit for each plate (item numbers beginning with B) contains the necessary fastening accessories (segment anchors and adjusting screws).

Material: Grey cast, painted black

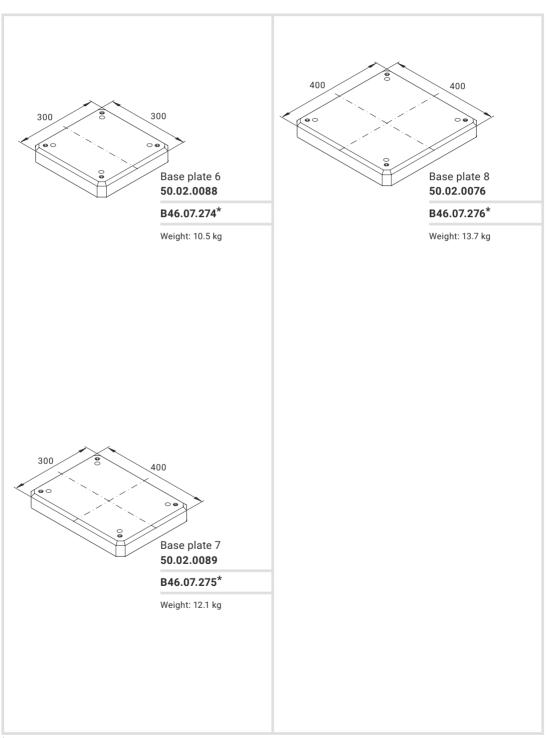
25 40 50 60

Sample drilling pattern



The middle lines indicate the path of the reinforcing bars on the underside of the base plates. Please note the paths of these bars when creating your drawing, as damaging the bars will significantly reduce the load capacity of the base plate.





Fastening example



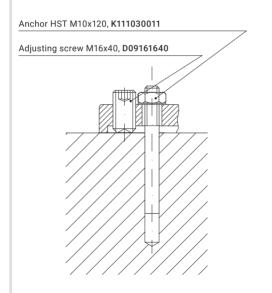
Base Plates

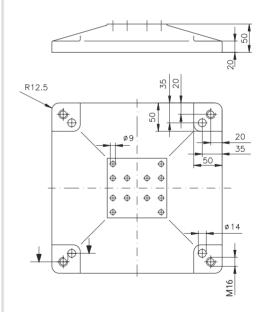
Heavy-Duty Base Plates

The following heavy-duty base plates ensure the stability of heavy machine frames, gantries and stands. They are painted black and pre-drilled for connecting certain basic profiles. Plates without a drilling pattern have only the threads and bores necessary for attaching it to the floor. On request, we will be happy to design a base plate for your particular application or manufacture it according to your drawing of the drilling pattern.

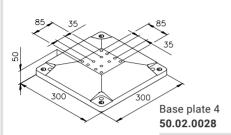
Material: Grey cast, painted black

25 40 50 60



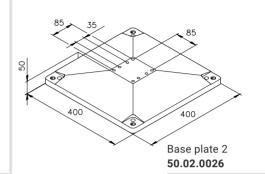






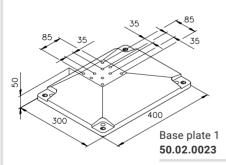
Connection bores for mk 2000, mk 2004, mk 2005, mk 2011, mk 2018 and mk 2019 profile

Weight: 6.8 kg



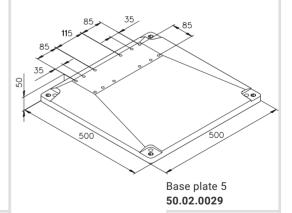
Connection bores for mk 2004, mk 2005 and mk 2011 profile

Weight: 11.5 kg



Connection bores for mk 2000, mk 2004, mk 2005, mk 2018 and mk 2019 profile

Weight: 8 kg



Connection bores for 2 x mk 2004, mk 2005 and mk 2011 profile

Weight: 16.6 kg



Support Brackets

Support Brackets

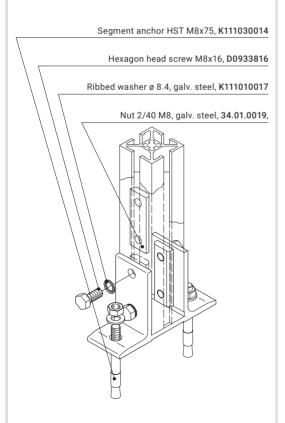
The support brackets for 40×40 mm profiles are frequently used to anchor guarding partitions to the floor. No end service is required on the profile itself. Height differences of up to 10 mm can be compensated by moving the profile.

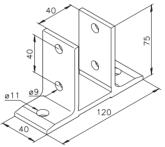
Material: Tumbled aluminium

25 40 50 60

M8x16

Fastening example





Support bracket 67.02.0004

for 40 x 40 profile



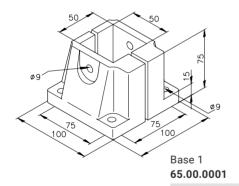


Support Brackets

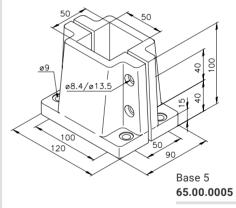
Support brackets (listed as "bases" below) for 50 x 50 mm profiles are used to anchor stands or columns to the floor. No end service is required on the profile itself.

Material: Die-cast aluminium

25 40 50 60



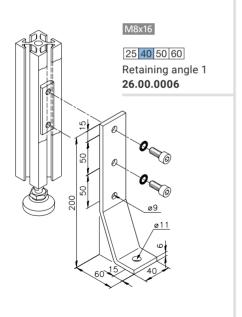
for 50 x 50 profile



for 50 x 50 profile



Fastening example

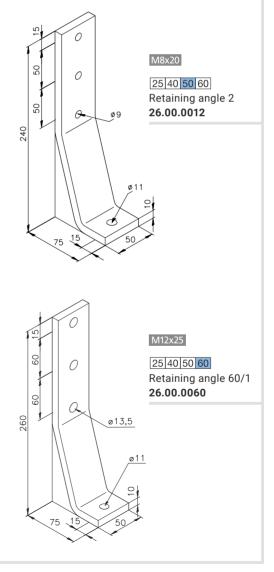


Support Brackets

Retaining Angles

Retaining angles can be retrofitted onto structures such as frames, belt conveyors or other structures with levelling feet in order to anchor and fix them to the floor. No end service is required on the profile itself.

Material: Galvanised steel



5

Notes





Fixed and Swivel Casters

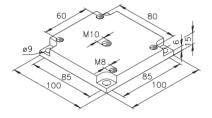
Fixed and Swivel Casters. Type A

The casters are made from galvanised, chromated steel. The housings of the type A variety can be connected to either the face or the slot of a profile using a foot plate with an M10/M12 thread. The rubber tread on the wheels provides for very smooth operation. The wheels have ball bearings. All swivel casters are equipped with a total locking device.

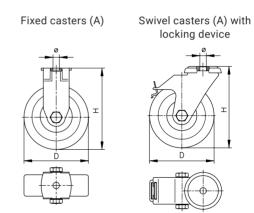
M8x16 25 40 50 60

Foot plate R3 50.02.0093

Tumbled aluminium



For mk 2005/mk 2011 and casters with ø 10.5 mm connection bores or 80/60 bore pattern



Wheel ø D [mm]	Wheel width [mm]	Load capacity [N]	Total height H [mm]	Connection bore ø [mm]	Item no.
		Fixed	casters	(A)	
50	18	400	69	10.5	K106001040
75	25	600	98	10.5	K106001041
100	32	900	133	10.5	K106001044
100	32	900	133	12.5	K106001042
125	25	800	158	12.5	K106001043
	Swivel	casters ((A) with	locking de	vice
50	18	400	69	10.5	K106000140
75	25	600	98	10.5	K106000141
100	32	900	133	10.5	K106000144
100	32	800	133	12.5	K106000142
125	25	800	158	12.5	K106000143



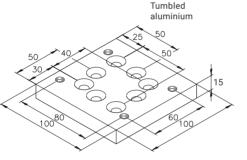


Fixed and Swivel Casters. Type B

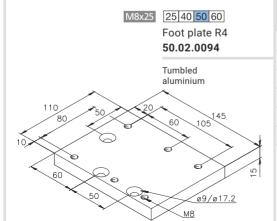
The casters are made from galvanised, chromated steel. The housings of the type B variety can be connected to a frame using the pad plates shown below. The wheels have ball bearings and feature a high load capacity. All swivel casters are equipped with a total locking device.

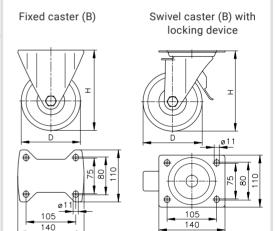


50.02.0091



For attaching casters with an 80/60 bore pattern to the profile slot using two countersunk head screws





ø D [mm]	width [mm]	capacity [N]	height H [mm]	pattern [mm]	Item no.	
Fixed caster (B)						
125	40	7000	165	105/80	K106001045	
125	40	7000	165	80/60	K106001048	
Swivel caster (B) with locking device						
125	40	7000	165	105/80	K106000145	
125	40	7000	165	80/60	K106000148	

Total

Bore

Wheel

Wheel

Load

Item no.

Section 6 Accessory Components







Hinges

194

Hinges Ball Joint Elements



Installation Elements

196

200

Cable Ducts	202
Sensor Holders	203
Pneumatic Components	204

192 Accessory Components







Handwheels Clamping Levers

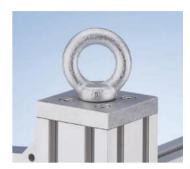


Conveying Elements

Mini-Rollers Track Rollers

208

209



Other Accessories

210

211

Bumpers 214 Eye Bolts 215

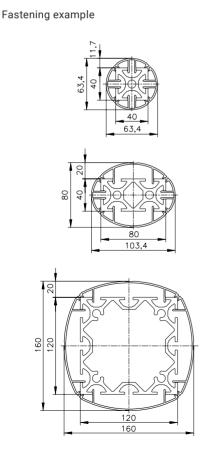


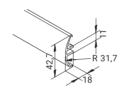
Cover Profiles

Cover profiles can be clipped into the profile slot of many Series 40 construction profiles without additional fastening accessories. This produces a pleasant look with round contours. Typical applications include table legs, frames, power supply columns and many more.

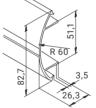
Material: Anodised aluminium

25 40 50 60

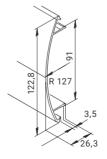












Profile mk 2040.44

0.85 kg/m

Stock length	54.44.5100
Cut	54.44



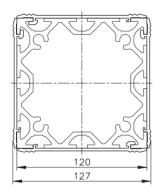


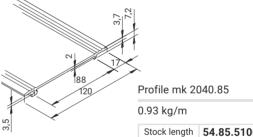
The following cover profiles can be used to cover Series 40 profiles without additional fastening accessories. The profiles' structure prevents slipping, in case the profiles are to be used as a stepping surface.

Material: Anodised aluminium

25 40 50 60

Fastening example

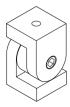






Fastening example

Cylinder head screw M8x20, D0912820 Ribbed washer ø 8.4, galv. steel, K111010017 Threaded insert M8, K112030008 Nut 1 M8, 34.01.0001 Ribbed washer ø 8.4, galv. steel, K111010017 Cylinder head screw M8x16, D0912816



Hinge B21 **B46.01.221**

Angle of rotation: + - 90°

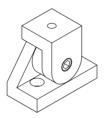
Hinges

Hinges

Hinges are used to connect profiles at an angle of your choosing (for limits, see the information provided for each item). The hinges are secured in place by tightening the cylinder head screw. The maximum load is 200 kg in the longitudinal direction of the profile. The hinge should be reinforced for use with high torque.

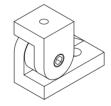
Material: Tumbled aluminium

25 40 50 60



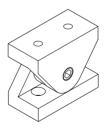
Hinge B22 **B46.01.222**

Angle of rotation: + - 53°



Hinge B23 **B46.01.223**

Angle of rotation: + 90°/ - 37°



Hinge B24 **B46.01.224**

Angle of rotation: + - 53°



Hinge B25 **B46.01.225**

Angle of rotation: + 90°/ - 37°



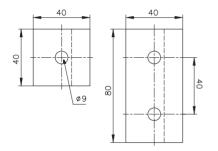


Hinges

The following hinges have a slide bushing that allows you to adjust the angle even when the joint is tightened. The hinges are designed to bear radial loads.

Material: Tumbled aluminium

25 40 50 60

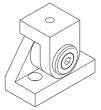




Dimensional sketch

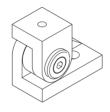
Hinge B01 **B46.01.201**

Angle of rotation: + - 90°



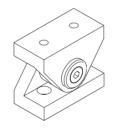
Hinge B02 **B46.01.202**

Angle of rotation: + - 53°



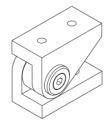
Hinge B03 **B46.01.203**

Angle of rotation: + 90°/ - 37°



Hinge B04 **B46.01.204**

Angle of rotation: + - 53°



Hinge B05 **B46.01.205**

Angle of rotation: + 90°/ - 37°



Hinges

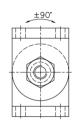
Hinges

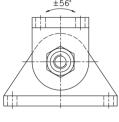
Hinges are used to connect profiles at an angle of your choosing (for limits, see the information in the fastening example). The hinges are secured in place by tightening the retaining bolt. The maximum load is 300 kg in the longitudinal direction of the profile. The hinge should be reinforced for use with high torque.

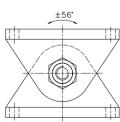
Material: Tumbled aluminium

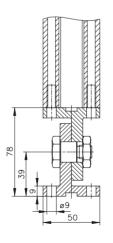
25 40 **50** 60 M8x20

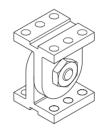
Fastening example





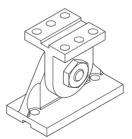






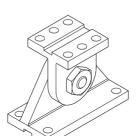
Hinge B50 B46.01.250

for 2 x mk 2000 faces



Hinge B51 B46.01.251

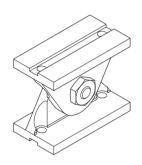
for mk 2000 face to Series 50 slot



Hinge B52 B46.01.252

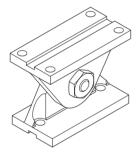
for mk 2000 face to mk 2004 face





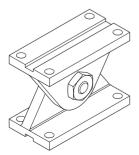
Hinge B53 **B46.01.253**

for series 50 slot to Series 50 slot



Hinge B54 **B46.01.254**

for mk 2004 face to Series 50 slot



Hinge B55 **B46.01.255**

for 2 x mk 2004 faces



Hinges

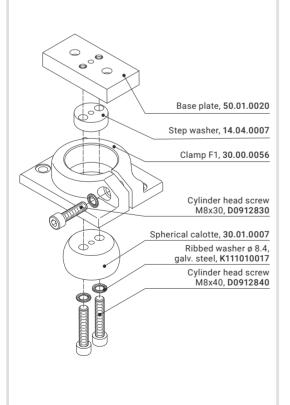
Ball Joint Elements

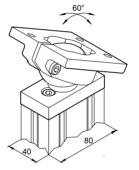
Ball joint elements can be swivelled by 60° in all directions. Once in the correct position, the element can be locked by tightening the fixing screw.

Material: Tumbled aluminium plate, grey cast clamp, stainless steel spherical calotte

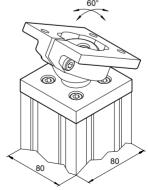
25 40 50 60

Fastening example





Ball joint element F1 B46.02.024*



Ball joint element F2 B46.02.025*

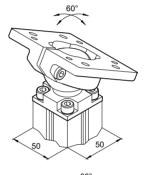




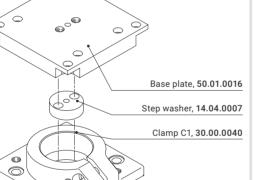
Ball Joint Elements

Material: Tumbled aluminium plate, grey cast clamp, stainless steel spherical calotte

25 40 50 60



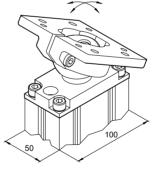
Ball joint element C1 **B46.02.010***



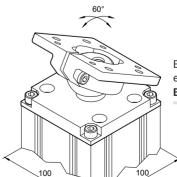
Cylinder head screw, M8x25, **D0912825**

Spherical calotte, 30.01.0007 Ribbed washer ø 8.4, galv. steel, K111010017

Cylinder head screw M8x40, **D0912840**



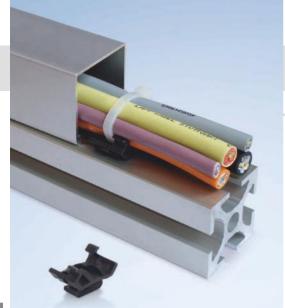
Ball joint element C2 B46.02.011*



Ball joint element C3 B46.02.012*

Fastening example

^{*}With fastening accessories



Installation Elements

Cable Ducts

Aluminium cable ducts offer outstanding function and an attractive design. They are fixed to a profile using the clips and conventional cable ties.

Material: Anodised aluminium

Clip material: PP plastic



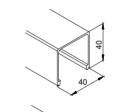
25 40 50 60 Clip 40

mk 2546

Clip material: PA6 plastic



25 40 50 60 Clip 50 **mk 2550**

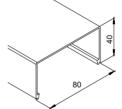




Profile mk 2040.50

0.51 kg/m

Stock length	54.50.5100
Cut	54.50



Profile mk 2040.51

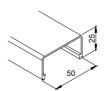
0.67 kg/m

Stock length	54.51.5100	
Cut	54.51	









Profile mk 2050

0.43 kg/m

Stock length	51.50.5100	
Cut	51.50	





Sensor Holders

Material: Galvanised steel

25 40 50 60 M8x12

Sensor holders are used to attach proximity switches. They can be attached quickly and flexibly without additional profile services.

Material: Tumbled aluminium

25 40 50 60 M8x16

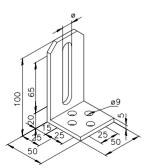
25 25 50 50

Sensor holder A

ø 13 – 16.00.0000

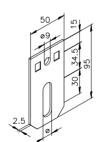
ø 19 - 16.00.0001

R1/4" - 16.05.0011



Sensor holder B **ø 13 – 16.00.0006**

ø 19 - 16.00.0007

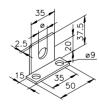


Sensor holder D

ø 9 – 16.00.0016

ø 13 – 16.00.0017

ø 19 – 16.00.0018



Sensor holder E

ø 9 – 16.00.0026

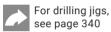
ø 13 – 16.00.0027

ø 19 – 16.00.0028

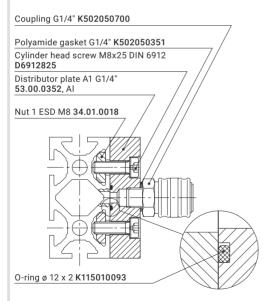
Installation Elements

Pneumatic Components

The following pneumatic components allow the mk 2040.02 and mk 2040.03 profiles to be used as a compressed air line, eliminating the need to install additional components. The system is designed for a maximum pressure of 6 bar. Ø 8.4 mm bores must be drilled at the necessary locations to connect the components in the profile slot. The B46.03.007 drilling jig can be used to determine the exact positioning of the bores, or the connection plate can be used directly as a jig.



Lateral fastening example

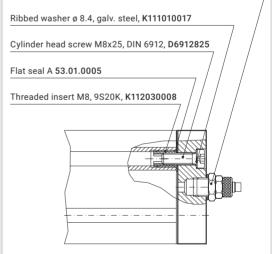


An O-ring is used to seal the connection when the distributor plate is fastened to the profile slot. It fits perfectly into a circular slot in the connection plate.

25 40 50 60

Face fastening example

Hose connection



A flat seal is used to seal the connection when the distributor or connection plate is fastened to the profile's face.





Pneumatic Components

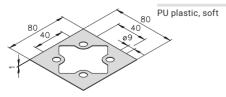
A flat seal is required when fastening the plates to the profile face; when fastening to the side of the profile, an O-ring is used to seal the joint between the profile and the plate. The coupling is threaded into the plate with a sealing ring. See also the fastening examples. The system is designed for a maximum pressure of 6 bar.



Flat seal A 53.01.0005

PU plastic, soft

Flat seal B 53.01.0006







Plug screw G1/4"

K502050426

G1/2"

K502050428

Brass



Coupling G1/4" K502050700

Brass



Polyamide sealing ring G1/2"

K502050353

PA plastic



Polyamide sealing ring G1/4" K502050351



PA plastic

0-ring ø 12 x 2 mm K115010093

NBR rubber

Installation Elements

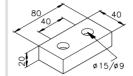
Pneumatic Components

We offer various plates for creating a compressed air system, depending on your particular application and profiles.

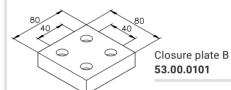
Material: Tumbled aluminium

Closure plates

M8x25 DIN 6912

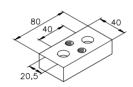


Closure plate A **53.00.0100**



Distributor plates

M8x25 DIN 6912



Distributor plate A18 G1/8"

53.00.0300

Distributor plate A14 G1/4"

53.00.0303

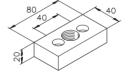


M8x25 DIN 6912

0

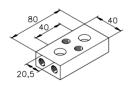
Connection plate A G1/4"

53.00.0352



Connection plate A G1/2"

53.00.0200



T=10

Distributor plate A28 G1/8"

53.00.0301

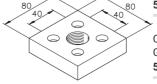
Distributor plate A24 G1/4"

53.00.0304



Connection plate B G1/2"

53.00.0201



Connection plate C G3/4"

53.00.0202

6

Notes





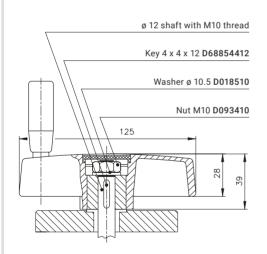
Operating Elements

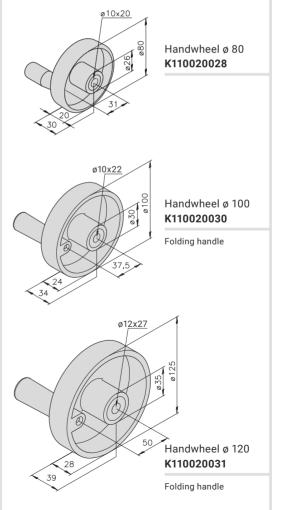
Handwheels

Handwheels in various designs can be mounted on spindles in adjusting units, or used in conveyor technology to adjust the side rails. Handwheels with outer diameters of 100 mm or larger have handles that can be folded away and lowered.

Material: PP plastic, matte black

Fastening example



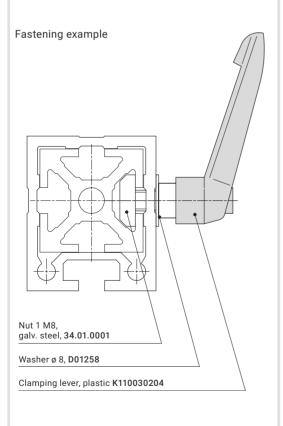


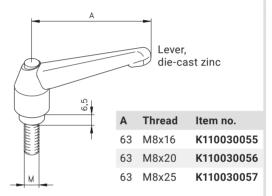


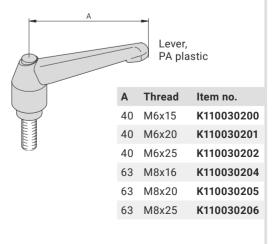


Clamping Levers

Clamping levers can be used to manually adjust and lock attached components in any position. Applications include holders for side rails, slide carriages or telescoping profiles.







Conveying Elements

Mini-Rollers

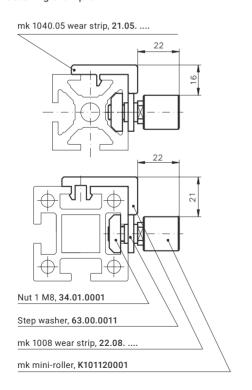
Mini-rollers are used for the manual transfer of workpiece carriers, among other applications. They can be used with Series 40 and Series 50 construction profiles. The roll distances depend on the size of the conveyed material.

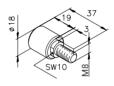
25 40 50 60



Wear strips Starting on page 156

Fastening example





mk mini-roller **K101120001**

Blued steel



Step washer **63.00.0011**

Galvanised steel



mk mini-roller **B60.04.002**

with fastening accessories 80 N max. radial load



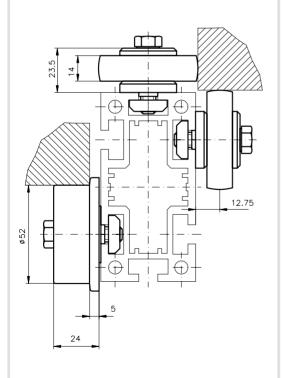


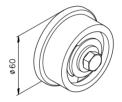
Track Rollers

Track rollers are used for the manual transfer of workpiece carriers, among other applications. They are often used when frames or other system components need to be moved linearly. The following varieties of flange, track and guide rollers are available for various applications.

25 40 50 60

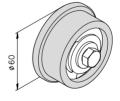
Fastening example





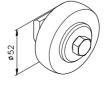
Flange roller 1 **B60.00.001**

Blued steel roll, 500 N max. radial load



Flange roller 2 **B60.00.002**

POM plastic roll, 200 N max. radial load

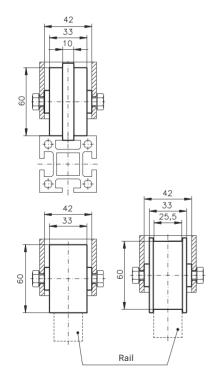


Track roller **B60.01.001**

Blued roller bearing steel, 1000 N max. radial load



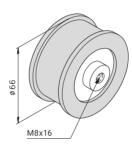
Fastening example



Conveying Elements

Track Rollers

Track rollers are used for the manual transfer of workpiece carriers, among other applications. They are often used when frames or other system components need to be moved linearly. The following varieties of flange, track and guide rollers are available for various applications.

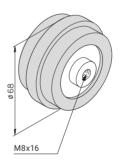


25 40 50 60 Flange roller A1 **B60.00.004**

25 40 50 60

Flange roller A1 **B60.00.003**

Steel roll, 1,000 N max. radial load

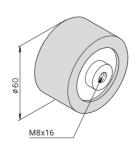


25 40 50 60 Guide roller A2 **B60.02.019**

25 40 50 60

Guide roller A2 **B60.02.002**

POM plastic roll, 200 N max. radial load



25 40 50 60 Track roller A4 **B60.01.005**

25 40 50 60

Track roller A4 **B60.01.003**

POM plastic roll, 200 N max. radial load

6

Notes



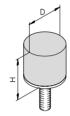


Bumpers

Bumpers are used to dampen shocks and noise in doors, flaps, caps, carriages and other applications.

Material: Rubber, Shore 55

Other Accessories



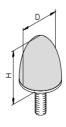
Bumper, type D

D	Н	Thread	Item no.
20	12	M6x12	K113060004
20	15	M6x15	K113060001
30	28	M8x20	K113060002
50	21	M10x28	K113060003



Bumper, type K/D

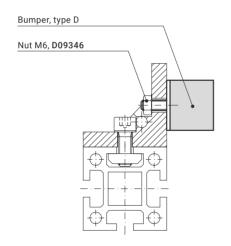
D	Н	Thread	Item no.
25	17	M6x18	K113060006
50	18	M10x28	K113060007



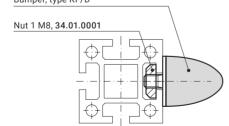
Bumper, type KP/D

D	Н	Thread	Item no.
30	36	M8x10	K113060012
30	36	M8x20	K113060011

Fastening example



Bumper, type KP/D





Foot plates

Fastening example

starting on page 215



Eye Bolts

Eye bolts for use as lifting devices can be attached to steel foot plates or to plates 4 and 5 shown here. The maximum load capacity refers to vertical loads.

Material: Galvanised steel

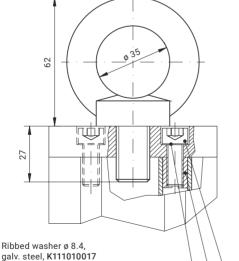


Eye bolt* M16 DIN 580 **D058016**

4,000 N load capacity

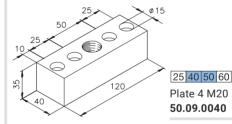
Eye bolt* M20 DIN 580 **D058020**

12,000 N load capacity



Threaded insert M8, 9S20K, K112030008

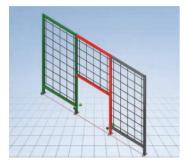
Cylinder head screw M8x20, D0912820



50 80 25 25 15 25 40 50 60 Plate 5 M20 50.09.0041

12,000 N load capacity

12,000 N load capacity



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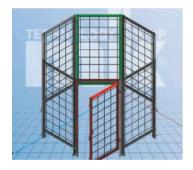
Floor Elements

→ See Section 5

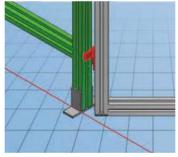
Notes on Guarding



Guarding Configurator



- Reduce your development and design time
- Large selection of panelling materials and door variants
- Standardised components for reduced costs
- No CAD system or CAD knowledge necessary
- Design in three dimensions with intuitive user guidance



- Option to import DXF layouts
- Export 3D drawings to IGES, STEP and JPEG format
- Automatically generate saw lists, weight estimates and bills of materials for individual parts and assemblies
- Choose your preferred degree of assembly (raw material/ assemblies/turnkey)



- Posts and partitions can be connected at variable angles from 0° bis 135°
- Automatic determination of support brackets
- Full/half support brackets and end caps can be manually selected and combined
- Pillar-panel solution: End cap options allows for quick disassembly using straight plate fasteners

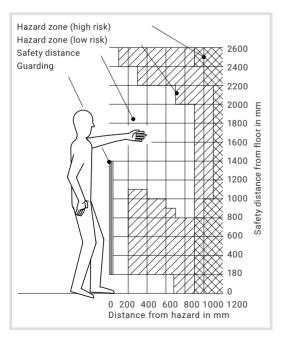


Safety Distances

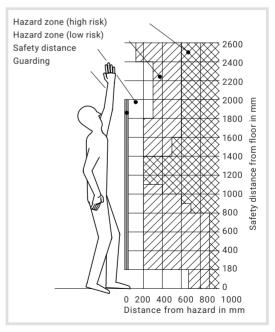
Our guarding has a flexible, modular design to allow you to secure your systems, machines and production areas effectively and economically. Choose from a wide range of machine housings, protective fences, panelling, doors and windows, all of which can be electronically secured if desired. It is also a cinch to connect pneumatically, hydraulically or electrically operated door elements to your machine control system. All mk guarding is designed and manufactured in accordance with the safety standards applicable in your country. You can be sure that you and your employees are always on the safe side.

Legally mandated safety distances to hazards are defined to ensure safety. Choose the appropriate panelling for your required safety distance. Closed panelling such as sheet metal, polycarbonate or glass have a required safety distance of 0 mm. Open panelling such as welded grids or wire meshes have a required safety distance of 200 mm (for 40 x 40 mm openings). With the preferred partition method, standard frame heights of 1400/2000 mm and 1460/2060 mm are available according to the height of your particular hazard. Custom heights are available on request.

Distance from hazard for 1400 mm frame height



Distance from hazard for 2000 mm frame height



These distances are in accordance with the DIN EN ISO 13857:2008-06 standard (Safety distances to prevent hazard zones being reached by upper and lower limbs).

Notes on Guarding



Machine housings and protective fences for increased occupational safety.

Our guarding range is based on the mk profile system and offers functional machine housings, enclosures and protective fences. Their flexible, modular design ensures that systems, machines and production areas can be secured effectively and economically.

The System Selection section below shows the three possible variants. The partition method is the preferred method and the standard design used by mk. Therefore, the various modules are shown in full only for the partition method in the following section.

The various methods are based on the same grid dimensions. This ensures that all systems remain modular and compatible. mk also offers custom solutions tailored to our customers' specific needs.

The floor clearance of the guarding is 180 mm as standard, which allows for floor cleaning without compromising safety. The profile structure's favourable mass-to-strength ratio offer ergonomic benefits when handling and installing the elements.



System Selection

ECO Solution

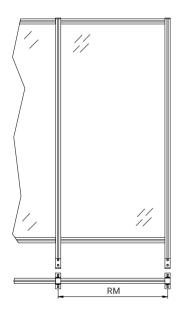
Because it requires less material, the ECO solution is the most cost-effective alternative, but it requires significantly more installation work. mk therefore prefers the partition method, since the individual partitions can be quickly and easily installed on site.

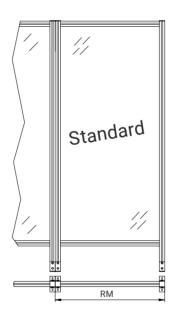
Partition Method

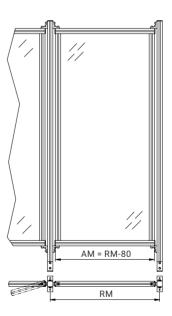
The partition method, which is the standard at mk, is an economical, sturdy and easy-to-install type of guarding. Because of the flush connections between the partitions, this method is excellently suited for both long, straight paths and for designs with variable angles.

Pillar-Panel Solution

The pillar-panel solution features separate panel frames that are mounted between posts anchored to the floor. This allows you to easily remove individual partitions, and the captive fastening system allows you to do so in accordance with the Machinery Directive.



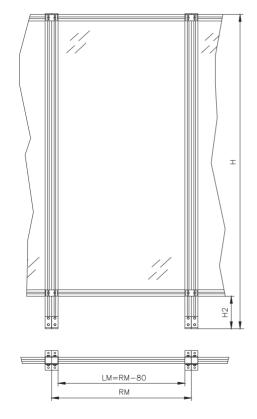




AM = outer dimension RM = grid dimension

Panelling starting on page 240 Corner blocks on page 97

Fastening example



LM = clear dimension RM = grid dimension

Partitions and Doors

Partitions

... for the Partition Method

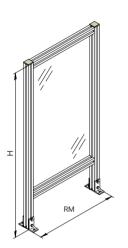
Our standard partitions and doors for the partition method are presented below, each with a fastening example. Plate fastening is the preferred method for connecting a partition to the adjacent partitions. The heights and grid dimensions can be adapted to customer-specific requirements.

Information required for ordering

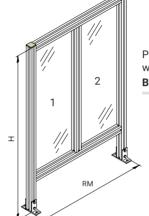
- RM (500, 750, 1000, 1250 as standard, also 1500 and 2000 mm with vertical brace)
- H (2060 or 1460 mm as standard)
- H2 (180 mm as standard)
- H4 (optional for partitions with horizontal brace)
- Panelling

The panelling (e.g. polycarbonate) must be specified when ordering; otherwise the assemblies (B...) will be delivered without panelling.

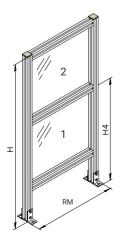




Simple partition **B69.51.001**



Partition with vertical brace **B69.51.003**



Partition with horizontal brace **B69.51.002**

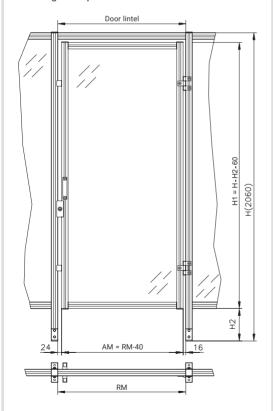
Assemblies (B...):

mk 2040.31 profile, connecting elements, support brackets, end caps, panelling (if specified when ordering, otherwise none).



Panelling starting on page 240 Locks starting on page 264

Fastening example



AM = outer dimension of swing door RM = grid dimension between two partitions

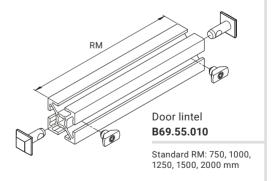
Partitions and Doors

Swing Doors

... for the Partition Method

A swing door is connected to the sides of partitions using hinges. The door lintel that connects the partitions provides the necessary stability. It can be used for both single-leaf and double-leaf swing doors.

The dimensions of the doors can be selected freely. The standard height from floor level is 2000 mm; based on the standard brush height of 180 mm, this means H1 = 1820 mm. Various panelling options, lock types and safety interlocks are available.

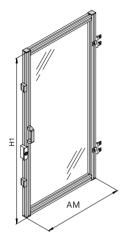


Assemblies (B...):

mk 2040.40 profile, connecting elements

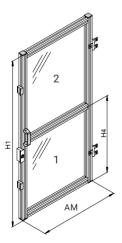


Single Swing Doors



Swing door, single-leaf DIN right **B69.60.001**

DIN left **B69.60.002**



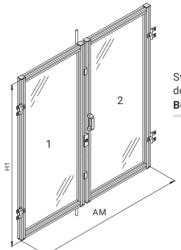
Swing door, single-leaf with horizontal brace DIN right

DIN left **B69.60.004**

B69.60.003

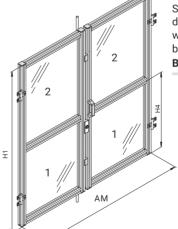
Double Swing Doors

Double swing doors are equipped with additional interlocks on the top and bottom.



Swing door, double-leaf **B69.60.005**

Swing door, double-leaf with horizontal brace B69.60.006



Assemblies (B...):

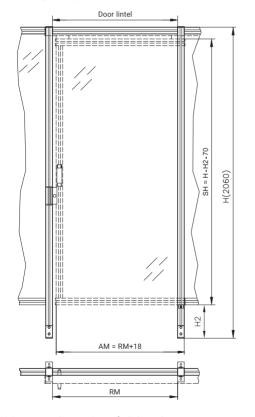
mk 2040.40 profile, connecting elements, stops, handles, end caps, hinges, lock, panelling (if specified when ordering, otherwise none).

Information required for ordering

RM, H1, H4 optional, panelling, lock type

Panelling starting on page 240 Locks starting on page 264

Fastening example



AM = outer dimension of sliding door

RM = grid dimension

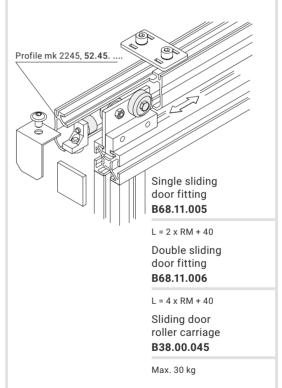
SH = sliding door height

Partitions and Doors

Sliding Doors

... for the Partition Method

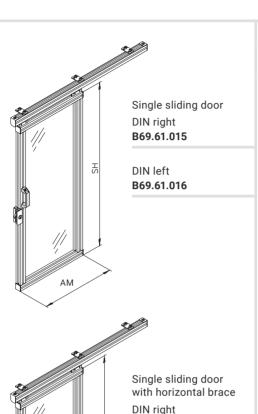
The combination of track and B38.00.045 roller carriage provides an extremely sturdy sliding mechanism while also offering the benefits of a closed rail system. As with swing doors, sliding doors are mounted on the sides of two partitions, which are connected by the door lintel included in the assembly.



M8x25 Guide piece **19.00.0005**

Black plastic

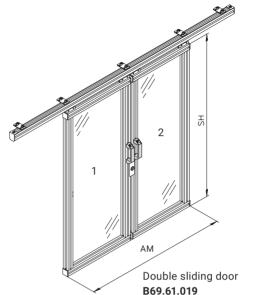


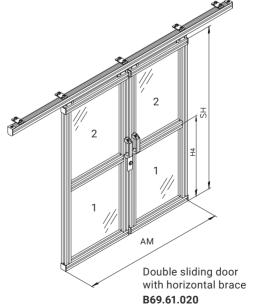


B69.61.017

B69.61.018

DIN left





Assemblies (B...):

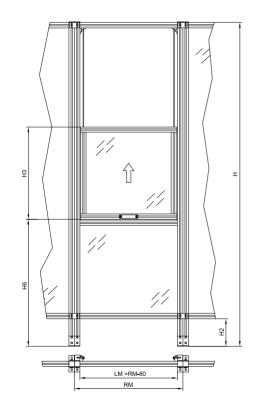
mk 2040.31 and mk 2245 profiles, connecting elements, fitting set, handles, end caps, buffer, lock, panelling (if specified when ordering, otherwise none).

Information required for ordering

RM, SH, H4 optional, panelling, lock type

Panelling starting on page 240

Fastening example



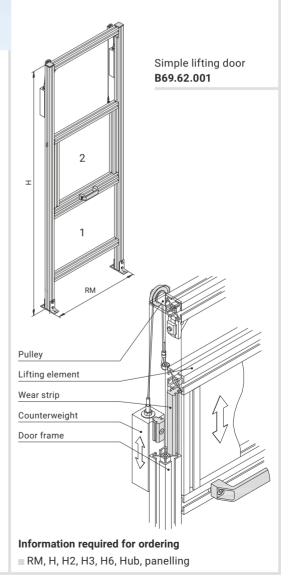
LM = clear dimension RM = grid dimension

Partitions and Doors

Simple Lifting Doors

... for the Partition Method

Lifting doors consist of a solid partition and a lifting element, which is balanced using steel cables that are connected to counterweights via idler pulleys. This lets you easily lift and lower the door manually. Pneumatic or electronic activators are available on request.

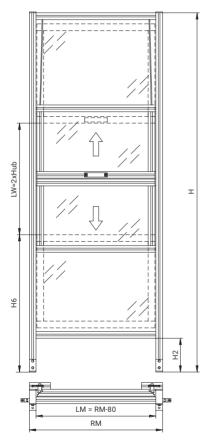




Scissor Doors

... for the Partition Method

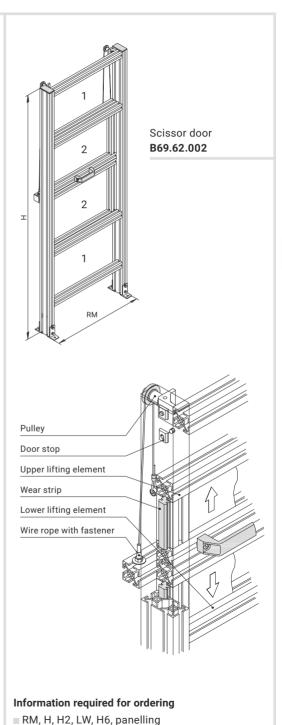
With opposing lifting doors, lifting is facilitated by the weight balancing provided by the other door moving in the opposite direction. Pneumatic or electronic activators are available on request.



LM = clear dimension RM = grid dimension

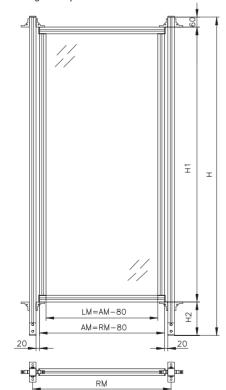
Assemblies (B...):

mk 2040.40 and mk 2040.41 profiles, connecting elements, support brackets, handle, wear strips, idler pulleys, panelling (if specified when ordering, otherwise none).



Panelling starting on page 240 Captive fastening system on page 226

Fastening example



LM = clear dimension AM = outer dimension

RM = grid dimension

Partitions and Doors

Posts

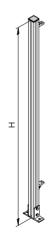
... for the Pillar-Panel Solution

The pillar-panel solution features separate panel frames that are mounted between posts anchored to the floor. This allows you to easily remove individual partitions, and the captive fastening system allows you to do so in accordance with the Machinery Directive (see below). The angle mounting method allows them to be installed at various angular degrees. The heights and grid dimensions can be adapted to customer-specific requirements.

Information required for panel frame orders

- RM (500, 750, 1000, 1250 as standard, also 1500 and 2000 mm with vertical brace)
- H (2060 as standard)
- H2 (180 mm as standard)
- H4 (optional for partitions with horizontal brace)
- Panelling

The panelling (e.g. polycarbonate) must be specified when ordering; otherwise the assemblies (B...) will be delivered without panelling.



Post 1 **B69.65.001 H**

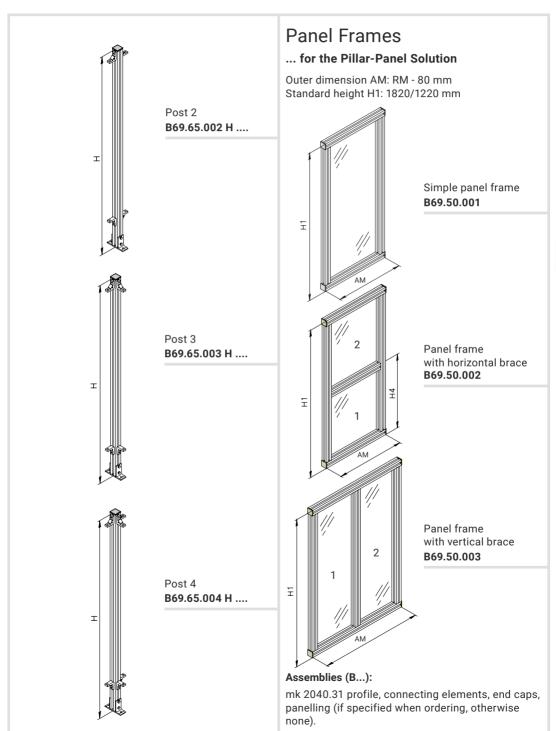
Post (without angle) **B69.65.000 H**

Not pictured

Assemblies (B...):

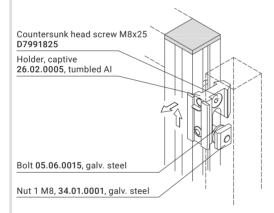
mk 2040.31 profile, angle B20/40, nuts with screws, end cap, support bracket







Fastening example



The following is required to mount a partition:

- If captive fastening is required: 2 x B46.00.243 (top) and 2 x B46.00.245 (bottom)
- If locking is not required: 4 x B46.00.245 (top and bottom)

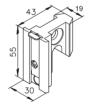
Partitions and Doors

Captive Fastening System

... for the Pillar-Panel Solution

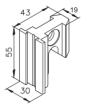
The captive fastening system allows you to quickly and conveniently install and remove partitions, for instance during maintenance work. In accordance with the Machinery Directive, the parts to be undone for removing the partition are designed so that they cannot be detached from the machine. The guarding features a robust construction, can be attached and detached using widely available tools. You can choose between two different variants based on your particular application.

25 40 50 60



Holder, captive **B46.00.243**

Complete, including bolts and fastening accessories



Holder, open **B46.00.245**

Complete, including bolts and fastening accessories

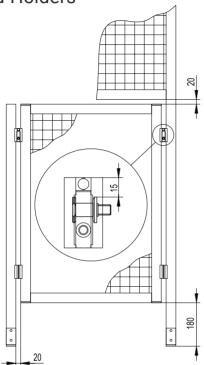


Bolt **05.06.0015**

Galv. steel



Installing the Bolts and Holders



- Attach two (top) holders to both sides of the partition to be removed using a countersunk head screw and a nut. Make sure they are the same height.
- Screw two bolts into the profiles to the left and right of the partition to be removed using nut 1M8. The distance from the top edge of the holder to the top edge of the bolt should be 15 mm.
- Attach two (bottom) holders as described above. Make sure they are the same height. Measure the distance between the top and bottom holders.
- Screw in two bolts as described above. Make sure the distances from top to bottom bolt are equal.
- If you need the partition to fall out when the guarding is unlocked (caution: risk of injury!), the bolts must be fastened to the partition and the holders fastened to the posts.

Installing the Partitions

For installation, the cover sheet must be in the upper position and the threaded pin must be unscrewed from the opening in the sheet (against the retaining sheet). The red marking is now visible.





■ Place the lower holder on the lower bolts. Tip the partition slightly to do so.

- Swivel the partition so that the upper holders lean against the upper bolts, then lift by about 20 mm and swivel to vertical.
- Lower the partition and allow all four holders to lock into the bolts.

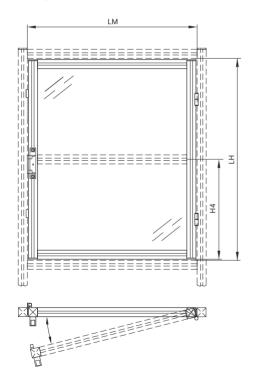




■ Tighten the threaded pins integrated in the holders to lock the partition. If using captive holders, the cover sheet falls to its lower position, thereby covering the red marking and exposing the green one. This way you can always tell whether the partition is secured.

■ Perform the same procedure in reverse to remove the partition.

Fastening example



5 mm gap along the perimeter

Assemblies (B...):

mk 2040.31 profile, connecting elements, handle, end caps, hinges, stops and ball latches, without panelling.

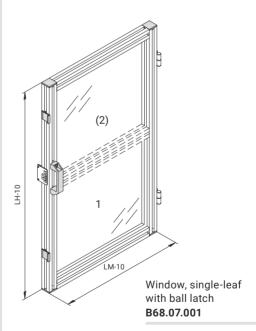
Windows

Windows, Single-leaf with Ball Latch

The ball latch ensures that the window can be reliably and securely locked in the profile frame. Safety interlocks should be used in openings that are critical for safety.



Panelling starting on page 240 Locks starting on page 264



Cross brace optional

Information required for ordering

LM, LH, H4 optional, panelling





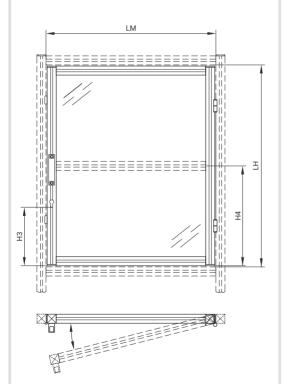
Windows, Single-leaf with Cylinder Lock

mk also offers a window with a cylinder lock in the profile as an alternative to windows with a ball latch lock.



Panelling starting on page 240 Locks starting on page 264

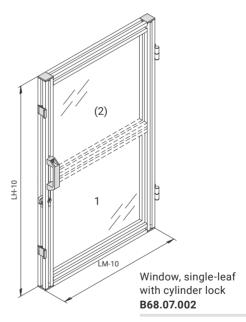
Fastening example



5 mm gap along the perimeter

Assemblies (B...):

mk 2040.31 profile, connecting elements, handle, end caps, hinges, stops, cylinder lock, panelling (if specified when ordering, otherwise none).



Cross brace optional

Information required for ordering

■ LM, LH, H3, H4 optional, panelling



Windows

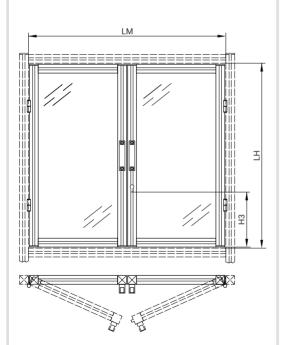
Windows, Double-leaf

The double-leaf variant should be used if the space requirements do not permit a single-leaf window.



Panelling starting on page 240 Locks starting on page 264

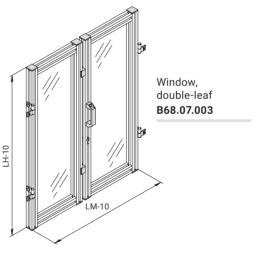
Fastening example



Max. clear dimension (LM) = 1200 mmMax. clear height (LH) = 1800 mm

Assemblies (B...):

mk 2040.31 profile, connecting elements, handle, end caps, hinges, lock, panelling (if specified when ordering, otherwise none).



Information required for ordering

LM, LH, H3, panelling



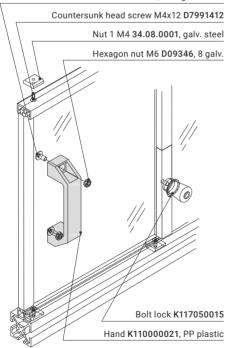


Sliding Windows

The mk 2240 and mk 2241 profiles can be used in Series 40 and 50 structures. When the window is not completely closed, both sliding elements can be installed or removed as needed. When closed, they are locked using a bolt lock.

Fastening example

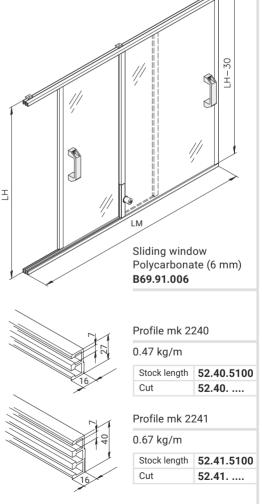
Flanged button-head screw M6x12 K112010012, 10.9 galv. black



Max. clear dimension (LM) = 1200 mm Max. clear height (LH) = 1000 mm

Assemblies (B...):

mk 2240, mk 2207 profiles, connecting elements, handle, stops, lock and panelling.

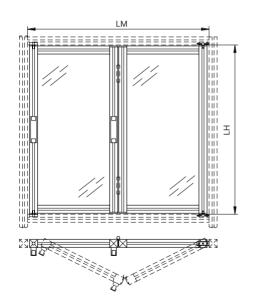


Information required for ordering

LM, LH



Fastening example



Max. LM = 1200 mm Max. LH = 1000 mm

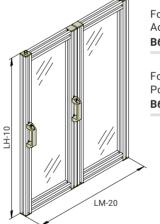
Windows

Folding Windows

Folding windows require a smaller swivel range than casement windows and are therefore a space-saving alternative.



Panelling starting on page 240



Folding window Acrylic glass **B69.91.004**

Folding window Polycarbonate **B69.91.005**

Information required for ordering

■ LM, LH, panelling

Assemblies (B...):

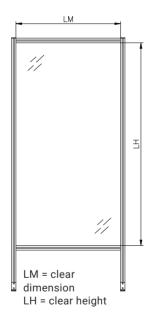
mk 2040.31 profile, connecting elements, handle, end caps, hinges, panelling (if specified when ordering, otherwise none).

7

Notes







Panelling

Information about Panelling

The panelling listed below can be used in partitions, frames and both door and window elements. Fastening accessories for mounting the panelling in a profile frame are presented on the following pages. You will also find order information for the corresponding assemblies, which contain both the panelling and the appropriate fastening accessories. Other panelling, such as safety glass, is available on request.

Information required for ordering

- Whole sheet panelling: material item no.
- Cut panelling: item no. for cut section along with width, height and colour (clear, tinted grey or RAL colour)

If the panelling is to be mounting in a profile frame, the width and height will vary according to the mounting method and the panelling, as shown in the table below.

Cut Lengths by Fastening Method

Fastening method	Width	Height
with holders	LM	LH
with panel clamp	LM - 31 mm	LH - 31 mm
with angles	LM	LH
with clamping profile	LM + 10 mm	LH + 10 mm
with fence clip	LM + 20 mm	LH + 20 mm
with sealing strip	LM + 20 mm	LH + 20 mm



Closed Panels



Clear Acrylic Glass

Acrylic glass (PMMA) is a thermoplastic material, also known under the brand name Plexiglas. It exhibits high strength, hardness and transparency. It is more resistant to breakage than traditional glass, but more sensitive to breakage and impacts than polycarbonate.

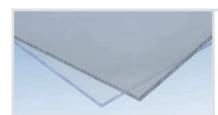
Material item no.	Size [mm]	Thickness [mm]	Cut item no.
K01D211004	2050x3050	4	50.15.6014
K01D211005	2050x3050	5	50.15.6000
K01D211006	2050x3050	6	50.15.6001



Clear PETG

PETG is a modified, transparent PET plastic that exhibits higher impact resistance than acrylic glass and is easier to work with. PETG offers better optical properties and higher chemical resistance than polycarbonate.

Material item no.	Size [mm]	Thickness [mm]	Cut item no.
K01P211005	2050x3050	5	50.15.6019
K01P211006	2050x3050	6	50.15.6017



Clear or Grey-Tinted Polycarbonate

Polycarbonate (PC), also known under the brand name Makrolon, is an impact-resistant and rigid thermoplastic material. Its durability and sturdiness makes it the most used type of transparent panelling.

Material item no.	Size [mm]	Thickness [mm]	Cut item no.
	Clear	•	
K01B211004	2050x3050	4	50.15.6009
K01B211005	2050x3050	5	50.15.6002
K01B211006	2050x3050	6	50.15.6003
	Tinted grey		
K01B231004	2050x3050	4	50.15.6009
K01B231005	2050x3050	5	50.15.6002

Panelling

Closed Panels



Silver Anodised Alucobond®

Alucobond® plates consist of two silver-anodised aluminium covering sheets with a black plastic core. This type of panelling provides slight damping and an attractive design.

Material item no.	Size [mm]	Thickness [mm]	Cut item no.
K00316223004	1500x3000	4	50.15.4001
K00316223006	1500x3000	6	50.15.4002



Silver Anodised Aluminium Sheet

Silver anodised aluminium sheet is easy to machine and provides an attractive look that matches the aluminium profiles. It is easy to clean and resists corrosion.

Material item no.	Size [mm]	Thickness [mm]	Cut item no.
K00305321150	1000x2000	1.5	07.30.
K00305321200	1000x2000	2	07.33.
K00305321250	1000x2000	2.5	07.36.

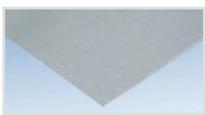


Galvanised or Painted Steel

Steel is available in a galvanised or painted design, and all cut sections are delivered deburred. Please note that the cut edges are not galvanised. Please specify the RAL colour when ordering painted steel.

Material item no.	Size [mm]	Thickness [mm]	Cut item no.
Galvanised			
K00112121150	1000x2000	1.5	07.28.
Painted			
K00112131150	1000x2000	1.5	07.28.





Ground Stainless Steel Sheet

Ground V2A stainless steel sheet is resistant to corrosion and suitable for use in food production applications.

Material item no.	Size [mm]	Thickness [mm]	Cut item no.
K00205121150	1000x2000	1.5	07.29.
K00205121200	1000x2000	2	07.32.



"Duet" Chequer Sheet

Aluminium chequer sheets with a slip-resistant "Duet" chequer pattern are used primarily as stepping surfaces for platforms and steps.

Material item no.	Size [mm]	Thickness [mm]	Cut item no.
K0030641125	1000x2000	2.5/4	07.21.1125
K0030641135	1000x2000	3.5/5	07.21.1135
K0030641150	1000x2000	5/6.5	07.21.1150

Panelling

Grid Panels



Aluminium or Galvanised Steel Wire Mesh

Wire mesh is suitable for guarding intended to separate areas and is easy to work with. The wire is 4 mm thick, and the mesh size is 40×40 mm. Various RAL colours are available on request.

Material item no.	Size [mm]	Thickness [mm]	Cut item no.
	Aluminiun	n	
K00315121.40	1000x2000	4	24.00.
K00315122.40	2000x3000	4	24.00.
Galvanised steel			
K00128221.40	1000x2000	4	24.02.
K00128222.40	2000x3000	4	24.02.



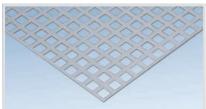
Welded Steel Grids, Powder-Coated or Galvanised

Welded grids are suitable for guarding intended to separate areas. They are sturdy, easy to work with and exhibit high load capacity. The wire is 4 mm thick, and the mesh size is 40 x 40 mm. You can select from galvanised steel and black powder-coated steel versions.

Material item no.	Size [mm]	Thickness [mm]	Cut item no.
	Black powder of	oated	
K00128321.40	1000x2000	4	24.05.
K00128323.40	1250x2000	4	24.05.
K00128324.40	1500x2000	4	24.05.
Galvanised			
K00128421.40	1000x2000	4	24.06.
K00128423.40	1250x2000	4	24.06.



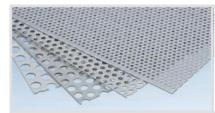
Perforated Sheets



"Square Hole" Perforated Sheets

Galvanised steel perforated sheets with square holes serve as a protective guard while also ensuring good ventilation. They can also be used as grates for draining liquids or for hanging tools. 10 x 10 mm square holes, 15 mm spacing (Qg 10-15).

Material item no.	Size [mm]	Thickness [mm]	Cut item no.	
	Galvanised s	teel		
K0011312121510	1250x2500	1.5	07.19.2110	
K0011312122010	1250x2500	2	07.19.2210	
Stainless steel				
K002061211150	1000x2000	1.5	07.45.0000	



Galvanised "Round Hole" Perforated Sheet

Galvanised steel perforated sheets with round holes in various diameters and offset rows serve as protective guards while also ensuring good ventilation. They can also be used as grates for draining liquids or for hanging tools.

Material item no.	Ro* [mm]	Size [mm]	Thickness [mm]	Cut item no.
K0011311121503	3-5	1250x2500	1.5	07.19.1103
K0011311121505	5-8	1250x2500	1.5	07.19.1105
K0011311121508	8-12	1250x2500	1.5	07.19.1108
K0011311121510	10-15	1250x2500	1.5	07.19.1110
K0011311122003	3-5	1250x2500	2	07.19.1203
K0011311122005	5-8	1250x2500	2	07.19.1205
K0011311122008	8-12	1250x2500	2	07.19.1208
K0011311122010	10-15	1250x2500	2	07.19.1210

^{*} Offset round holes (Ro) = hole ø - spacing

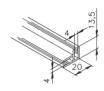


Panelling

Edge Profiles

Edge profiles provide seamless closure for panelling. The protect against sharp cut edges and increase stability. They allow you to create simple contours, as shown at left. Simply place the edge profiles on the panelling and the teeth will fix them in place.

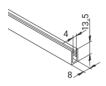
Material: Anodised aluminium



Profile mk 2210

0.25 kg/m

Stock length	52.10.6000
Cut	52.10



Profile mk 2206

0.14 kg/m

Stock length	52.06.6000
Cut	52.06



Profile mk 2211

0.47 kg/m

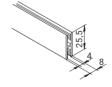
Stock length	52.11.6000
Cut	52.11



Profile mk 2207

0.27 kg/m

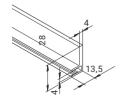
Stock length	52.07.6000
Cut	52.07



Profile mk 2214

0.25 kg/m

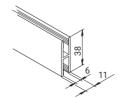
Stock length	52.14.6000
Cut	52.14



Profile mk 2203

0.35 kg/m

Stock length	52.03.6000
Cut	52.03



Profile mk 2215

0.47 kg/m

Stock length	52.15.6000
Cut	52.15

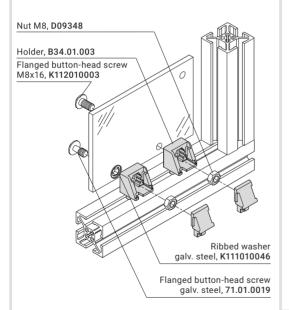
7

Notes





Fastening example



LM and LH represent the clear dimensions of the profile frame.

Panelling

Panelling with Fastening Accessories

... with Holder

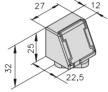
The holder is used to retrofit panelling into existing structures in accordance with the Machinery Directive. The holder is available in two designs: with a simple flanged button-head screw, or as a captive connection with an undercut flanged button-head screw and a ribbed washer. The holder is closed by snapping on the cover, and the nut is secured so that it cannot be slid out.

Material: Fibre-reinforced plastic



Holder with cover **B34.01.003**

without fastening accessories



B34.01.004

with fastening accessories

B34.01.004A2

with VA fastening accessories

B34.01.005

with captive fastening accessories

B34.01.005A2

with captive VA fastening accessories

Polycarbonate

Clear or tinted grey

5 mm	B69.90.206	LM	LH
6 mm	B69.90.207	LM	LH

Panelling requires \emptyset 9 mm bores at a distance of 10 to 15 mm from the profile frame.





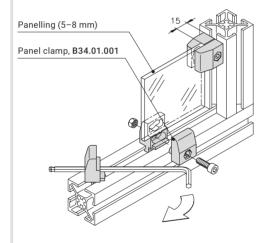
Panelling with Fastening Accessories

... with Panel Clamp

Panel clamps are used to fasten panelling from 5 to 8 mm in thickness. There is a gap of 15 mm all around between profile frame and panelling.

Material: Fibre-reinforced plastic

Fastening example



25 40 50 60

Panel clamp 40 B34.01.001

25 40 50 60

Panel clamp 50 B34.01.002

Acrylic glass

Clear			
5 mm	B69.90.103	LM	LH
6 mm	B69.90.104	LM	LH

Polycarbonate

Clear or tinted grey				
5 mm	B69.90.204	LM	LH	
6 mm	B69.90.205	LM	LH	

LM and LH represent the clear dimensions of the profile frame.



Panelling

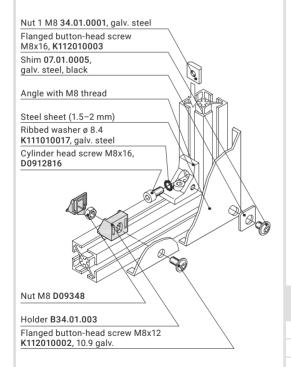
Panelling with Fastening Accessories

... with Angle

Threads for inserting panelling elements are tapped into the angles' lateral bore. Angles E25 and E25s are the preferred angles. A holder can be used to support larger side lengths. Please specify the RAL colour when ordering painted steel.

Material: Tumbled aluminium

Fastening example



LM and LH represent the clear dimensions of the profile frame.



25 40 50 60 Angle, E25, M8

82.40.0721



25 40 50 60

Angle, E25s, M8 82.40.0761



Shim **07.01.0005**

Galv. steel, black

Steel sheet
Galvanised or painted

 1.5 mm
 B69.90.310
 LM > 300
 LH < 300</th>

 1.5 mm
 B69.90.311
 LM
 LH

For side lengths up to 1200 mm

2 mm **B69.90.312 LM LH**

With additional B34.01.003 holders for side lengths over 1200 mm $\,$





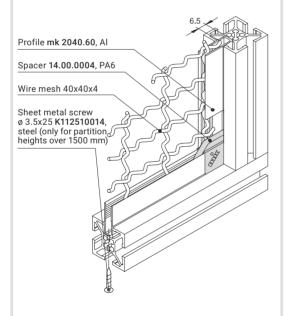
Panelling with Fastening Accessories

... with Clamping Profile

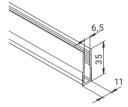
When using the mk 2040.60 profile to fasten wire mesh, an additional screw is needed to secure the profile when the side is longer than 1500 mm; see the fastening example. The spacer eliminates the need for time-consuming mitre cuts.

Material: Anodised aluminium

Fastening example



LM and LH represent the clear dimensions of the profile frame.



Profile mk 2040.60

0.30 kg/m

Stock length | **54.60.6100** Cut | **54.60.....**



Spacer **14.00.0004**

PA6 plastic

Wire mesh

Aluminium

40x40x4 mm **B69.90.001** LN

LM

LH

Wire mesh

Galvanised steel

40x40x4 mm **B69.90.002**

LM

LH



Panelling

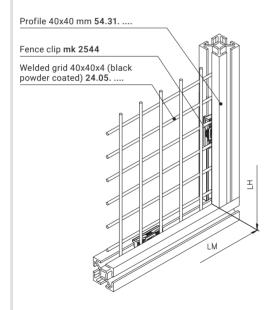
Panelling with Fastening Accessories

... with Fence Clip

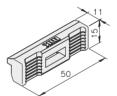
Fence clips can be used to fasten welded grids easily, quickly and cheaply. The fence clip is simply hammered into the profile slot, which fixes the protective grate in the frame. The terminal is designed for 4 mm thick welded grids.

Material: ABS plastic

Fastening example



LM and LH represent the clear dimensions of the profile frame.



25 40 50 60

Fence clip mk 2544

Welded grid				
Black powder coated				
40x40x4 mm	24.05.	LM	LH	
complete with fence clips	B69.90.003	LM	LH	

Welded grid Galvanised stee	 *			
40x40x4 mm	24.06.	LM	LH	
complete with fence clips	B69.90.005	LM	LH	
*Special RAL paint colours optional				

'Special RAL paint colours optional





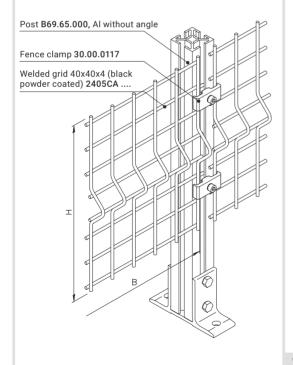
Panelling with Fastening Accessories

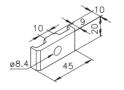
... with Fence Clamp

Fence clamps can be used to easily retrofit welded grids onto existing structures. The "custom solution" variant is frequently used for this purpose. The stability of the welded grid is increased by two horizontal folds in the grid fencing.

Material: Aluminium

Fastening example





M8x20

25 40 50 60

Fence clamp

30.00.0117

Welded grid

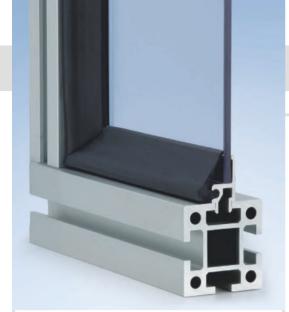
Black powder coated

40x40x4 mm **B69.90.004**

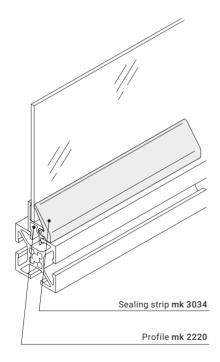
В

Н....

Dimensions: B = RM - 10 mm, H = max. 1880 mm RM = centre post to centre post



Fastening example



LM and LH represent the clear dimensions of the profile frame.

Panelling

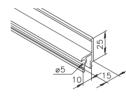
Panelling with Fastening Accessories

... with Sealing Strip

The combination of mk 2220 profile with mk 3034 sealing strip is a universal holder for panelling from 2 to 8 mm in thickness. All Series 40 and 50 construction profiles are suitable for use as the mounting profile.

Information required for ordering

- Item number
- Length in mm

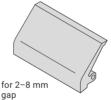


Profile mk 2220

0.32 kg/m

Stock length	52.20.6100
Cut	52.20

Anodised aluminium



25 40 50 60

Sealing strip **mk 3034**

Black EPDM rubber

Polycarbonate

Clear or tinted grey

4 mm	B69.90.701	LM	LH
6 mm	B69.90.702	LM	LH

Acrylic glass

Clear

5 mm	B69.90.710	LM	LH
6 mm	B69.90.711	LM	LH

Steel sheet

Galvanised or painted

2 mm	B69.90.720	LM	LH
Z 111111	D07.70.720	FIA1	LII

Not permitted for guarding intended to separate areas.





Panelling with Fastening Accessories

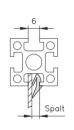
... with Sealing Strip

Sealing strips are used to fix panelling from 1.5 to 6.5 mm thick in the profile slot. They seal the profile slot to produce a seamless transition.

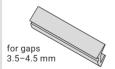
Information required for ordering

- Item number
- Length in mm

Fastening example



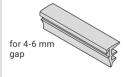




25 40 50 60

Sealing strip **mk 3027** black

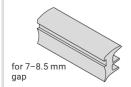
TPE-V rubber



25 40 50 60

Sealing strip mk 3020 black

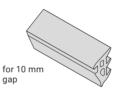
TPE-V rubber



25 40 50 60

Sealing strip **mk 3021** black

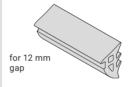
TPE-V rubber



25 40 50 60

Sealing strip **mk 3023** black

EPDM rubber



25 40 50 60

Sealing strip **mk 3024** black

EPDM rubber

Alucobond®

Silver anodised

4 mm	B69.90.501	LM	LH
6 mm	B69.90.502	LM	LH

Acrylic glass

Clear

5 mm	B69.90.101	LM	LH
6 mm	B69.90.102	LM	LH

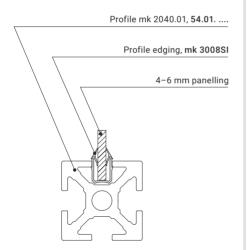
Polycarbonate

Clear or tinted grev

	J		
4 mm	B69.90.201	LM	LH
5 mm	B69.90.202	LM	LH
6 mm	B69.90.203	LM	LH



Fastening example



Panelling

Panelling with Fastening Accessories

... with Profile Edging

Profile edging is suitable for holding panelling from 4 to 6 mm in thickness. During mounting, the profile edging together with the panelling is pressed into the slot of the profile. Due to the geometry, the side flanks are pressed against the panelling. This produces a seamless transition.

Material: PP plastic



25 40 50 60

Profile edging mk 3008

Black

mk 3008SI

Silver grey

2000 mm stock length

7

Notes





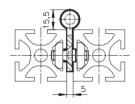
Door and Window Components

Hinges

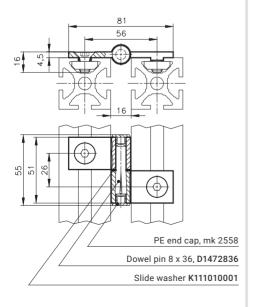
The various hinge leaves allow you to combine profiles from different series. You can, for example, install a door built from Series 25 profiles into a structure built from Series 50. You can use twoleaf or three-leaf hinges, depending on whether you want to be able to unhinge the door later. A slide bushing can be inserted in the three-leaf hinges to allow for frequent opening even under high loads.

Material: Tumbled aluminium

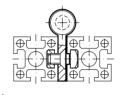
Example of installation position A

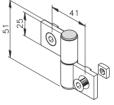


Example of installation position B



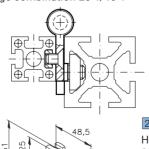
Hinge combination 25-1/25-1





25 40 50 60 Hinge 25-1/25-1 B46.01.012*

Hinge combination 25-1/40-1



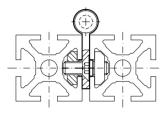
25-1/40-1

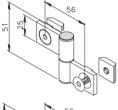
25 40 50 60 Hinge

B46.01.013*



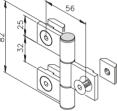
Hinge combination 40-1/40-1 and 40-1/40-7/40-1





25 40 50 60

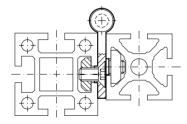
Hinge 40-1/40-1 **B46.01.010***

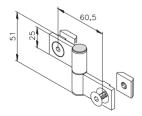


25 40 50 60

Hinge 40-1/40-7/40-1 **B46.01.030***

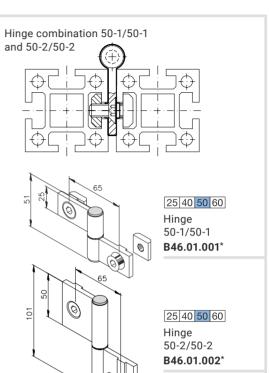
Hinge combination 40-1/50-1



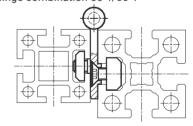


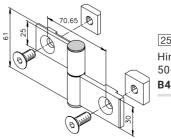
25 40 50 60

Hinge 40-1/50-1 **B46.01.011***



Hinge combination 50-1/60-1



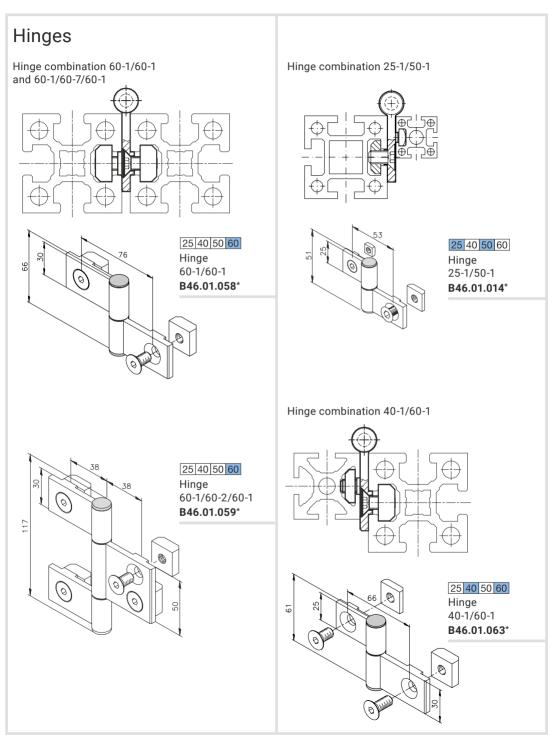


25 40 50 60

Hinge 50-1/60-1

B46.01.064*

Door and Window Components







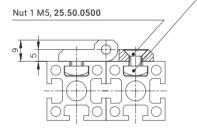
Hinges

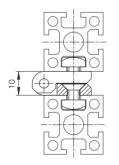
The following hinges have been designed exclusively for mounting on Series 25 profiles for small doors and flaps.

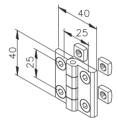
25 40 50 60

Fastening example

Countersunk head screw M5x10, D7991510

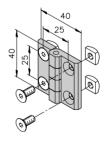






Hinge 25 **B46.01.015***

Black powder-coated die-cast zinc hinge leaf



Plastic hinge **B46.01.033***

PA6 plastic hinge leaf Fastening example



Door and Window Components

Hinges for Panelling

The following hinges can be used to attach panelling directly without an additional frame structure.

Material: Tumbled aluminium



25 40 50 60

Hinge 25-1/25-3 **B46.01.044***

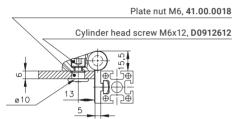


Plate nut M8, 41.00.0017

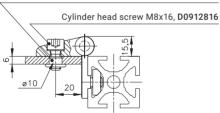
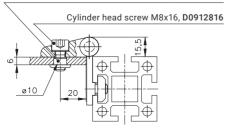


Plate nut M8, 41.00.0017



50.5

25 40 50 60

Hinge 40-1/40-3 **B46.01.050***

555

25 40 50 60

Hinge 50-1/40-3 **B46.01.055***



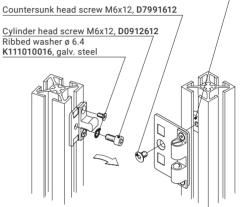


Ball Latch

Material: Brass

25 40 50 60

Nut 1, M6 **34.02.0008**, galv. steel



Ball latch

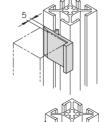
B68.02.101* for 5 mm door gap

B68.02.102* for 24 mm door gap

Door stop

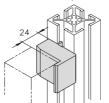
Material: PE-1000 plastic





Stop profile **22.90.0035**

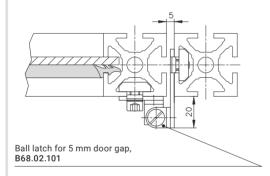
for 5 mm door gap

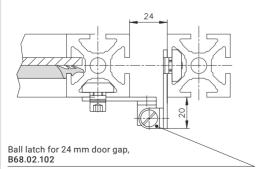


Stop profile **22.92.0035**

for 24 mm door gap

Fastening example





Fastening example

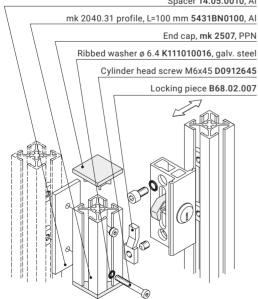
Swing door, DIN right



Swing door, DIN left



Spacer 14.05.0010, Al



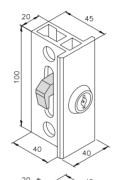
Door and Window Components

External Locks

External locks are attached to the side of the profile. The distance between the frame and door must be 24 mm. They can be used for sliding doors and hinged doors.

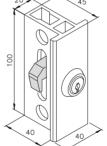
Material: Tumbled aluminium

25 40 50 60



External double-bit lock DIN right B68.02.017

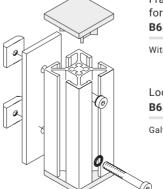
DIN left B68.02.018



External cylinder lock DIN right

B68.02.019

DIN left B68.02.020



Frame extender for sliding door B68.06.005

With locking piece

Locking piece B68.02.007

Galv. steel



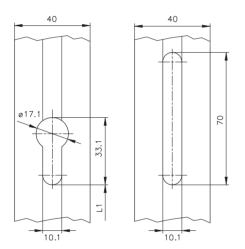




Internal Locks

Internal locks are cylinder locks that are installed directly in the door profile. The distance between the frame and door must be 5 mm.

Drilling pattern for cylinder lock



Profile service for mk 2040.01 profile **5401BC**

Profile service for mk 2040.40 profile **5440BC**

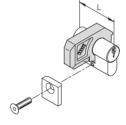
Profile service for mk 2040.31 profile **5431BI**

Please specify L1 when ordering

25 40 50 60

Cylinder lock, complete **B68.02.051**

L = 42 mm

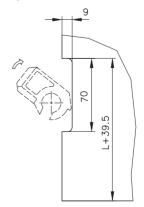


25 40 50 60

Cylinder lock, complete **B68.02.052**

L = 52 mm

Removal of panelling material for the cylinder lock





Door and Window Components

Tower Bolts

For locking swing doors at the top frame profile and/or at the floor. A guide angle must be attached to the top frame profile, while a bolt strike plate is used on the floor. When fastening to the floor, you must form-tap an M8 thread into the mk 2040.31 vertical strut.

360 mm standard length.

Material: Tumbled aluminium

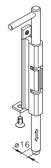
25 40 50 60



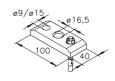
Tower bolt, top B68.02.152.0360



Guide angle 76.03.0020



Tower bolt, bottom B68.02.151.0360

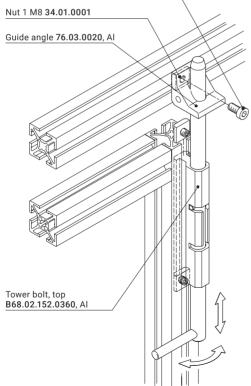


Bolt strike plate 76.03.0018

Anchor

Fastening example

Cylinder head screw M8x16 D6912816 Nut 1 M8 34.01.0001





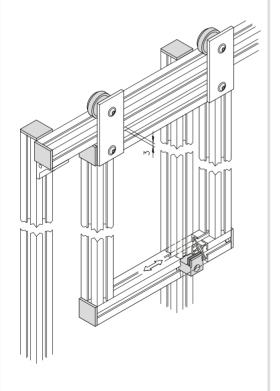


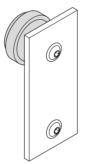
Roller Unit

This sliding mechanism is a cost-effective and easy-to-install variant. The plastic guide roller is simply guided through a collar in the profile slot. The roller unit assembly consists of a plate, roller, bolt, extra-wide washer, flanged button-head screw and nut.

25 40 50 60

Fastening example





Roller unit B68.11.003

Roller: POM Plate: Tumbled Al



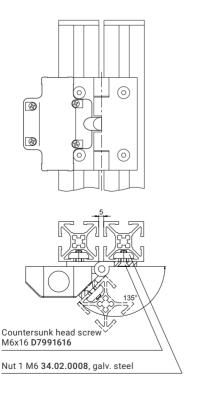
M8x25

Guide piece **19.00.0005**

Black plastic



Fastening example



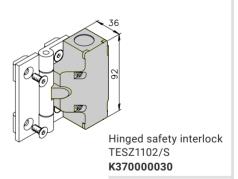
Safety Accessories

Hinged Safety Interlocks

The hinged safety interlock is suitable for swing doors that must be closed to ensure the required operational safety.

Properties

- Plastic housing
- Protective earthing
- High resistance to oil and petrol
- Dimensions: 111.5 mm x 92 mm x 36 mm
- \blacksquare Easy installation, especially on 40 mm profiles
- Universal installation in guarding with hinges on the left or right
- Mounting bores for M6 countersunk head screws according to DIN 965
- Two M20x1.5 cable openings



Max. safety category/ performance level:	Without 2nd switch: max. SC 4, PL "e"
Contacts:	1 normally open, 2 normally closed
Degree of protection:	IP 65
Control voltage:	24 V DC



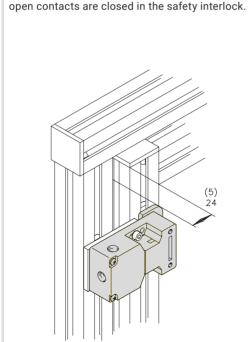
The safety interlock with separate actuating key is suitable for guarding that is laterally adjustable and/or rotatable, and especially for removable guarding that has to be shut in order to ensure the necessary operational safety. The switching element and actuating keys for the safety interlocks are not connected to each other, but are functionally combined or separated when switching. The actuating key is separated from the basic device when the guarding is opened. In doing so, the normally closed contacts are opened and the normally

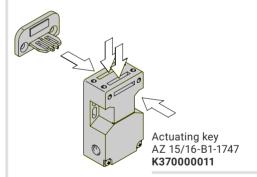


Safety Interlocks with Separate Actuating Key

Properties

- Plastic housing
- Protective earthing
- Large space for connecting cables
- Dimensions: 52 mm x 90 mm x 30 mm
- Multiple coding
- Long service life
- High contact reliability at low currents
- Oblong bores for adjusting, round bores for fixing
- Three M16x1.5 cable openings





Safety interlock AZ 16ZVRK - M16 K37000010

Max. safety category/ performance level:	Without 2nd switch: max. SC 3, PL "d"
Contacts:	1 normally open, 2 normally closed
Degree of protection:	IP 67
Retaining force:	30 N
Control voltage:	24 V DC

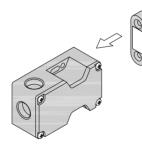


Safety Accessories

Magnetic Safety Interlocks

Properties

- Plastic housing
- Suitable for food production
- Concealed installation possible
- Dimensions: 52 mm x 90 mm x 39 mm
- Long service life
- Resists lateral misalignment
- No mechanical wear
- Resistant to dirt
- Three M20x1.5 cable openings
- Cable connection space
- Max. 6 mm locking distance



Actuating key BPS 16 magnet **K370000013**

Safety interlock BNS 16-12ZV **K370000012**

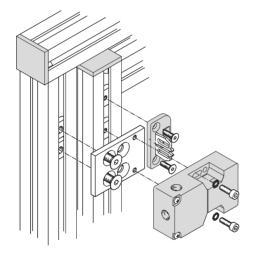
Max. safety category/ performance level:	Without 2nd switch: max. SC 3, PL "d"
Contacts:	1 normally open, 2 normally closed
Degree of protection:	IP 67
Control voltage:	24 V DC



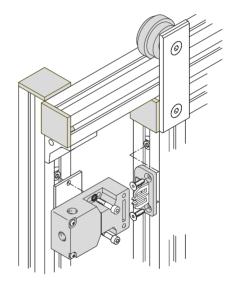
Fasteners for Safety Interlocks

The fastener set for safety interlocks can be used on swing doors with a gap of 5 to 24 mm.

Material: Tumbled aluminium plate



Safety interlock fastener set for swing doors **B16.03.001**



Safety interlock fastener set for sliding doors **B16.03.002**



Safety Accessories

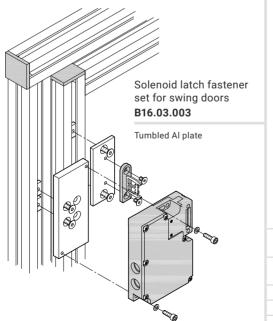
Mechanical Solenoid Latches

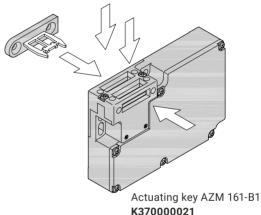
Properties

- Plastic housing
- Protective earthing
- Failsafe locking
- Dimensions: 130 mm x 90 mm x 30 mm
- Six contacts
- Long service life
- Large space for connecting cables
- Manual release
- Four M16x1.5 cable openings
- De-energise to trip

The solenoid latch ensures that sliding, rotating or removable guarding cannot be opened until the hazardous situation, e.g. coasting motion, has ended

Protective doors that are secured with solenoid latches are generally only opened in exceptional cases. Solenoid latches use electric magnets to activate an interlock, which blocks or triggers the actuating key of the switch.



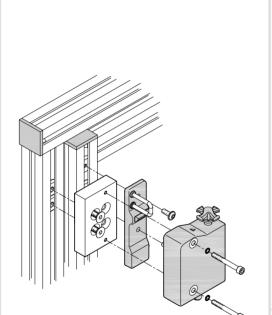


Solenoid latch AZM 161SK-12/12RK-024 **K370000020**

Max. safety category/ performance level:	Without 2nd switch: max. SC 3, PL "d"
Contacts:	2 normally open, 4 normally closed
Degree of protection:	IP 67
Retaining force:	2000 N
Control voltage:	24 V DC







Fastener set for solenoid latch **B16.03.008**

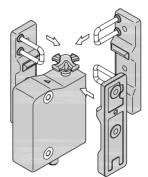
Tumbled Al plate



Electronic Solenoid Latches

Properties

- Plastic housing
- Three different actuation directions
- Compact design
- Non-contact, coded electronic system
- Three LEDs for displaying operating states
- Resistant to cleaning agents
- Suitable for hinged and sliding doors
- Series circuit
- Manual release
- M12, eight-pin plug connector
- De-energise to trip
- Lock monitoring
- Diagnostics output



Actuating key AZ/AZM 300-B1 **K370000023**

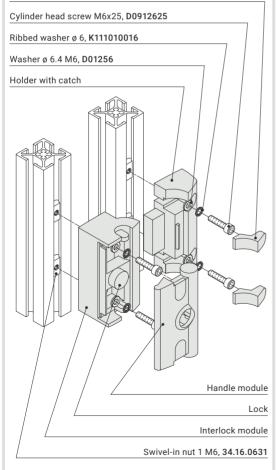
Electronic solenoid latch AZM 300Z-ST-1P2P **K370000022**

Performance level:	max. PL "e"
Contacts:	1 sourcing diagnostic output (Out), 2 sourcing safety outputs Out: guarding closed/ guarding closed and locked
Degree of protection:	IP66, IP67, IP69
Retaining force:	1000 N
Locking force:	25 N/50 N, set using rotating cross
Control voltage:	24 V DC

PROE

Fastening example

Sealing cap



Safety Accessories

Slam Latches

Slam latches are multi-functional door handles for securing and monitoring guarding. They consist of a handle and an interlock module. The PROe lock has additional transponder-coded safety technology according to EN ISO 13849-1 (Cat. 4/PL e).

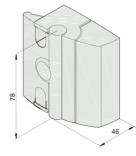
- Can be installed without machining
- For use with left-hinged and right-hinged doors
- Lockable to prevent unwanted shutdowns
- Secured against disassembly in closed state

Material: Black power-coasted die-cast aluminium

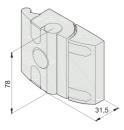


PROe slam latch B68.02.032*

LED status indicators



PRO slam latch **B68.02.031***



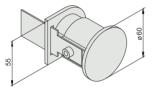
Compact slam latch **B68.02.030***



Emergency Opener

For rear emergency release of the PROe, PRO and Compact slam latches.

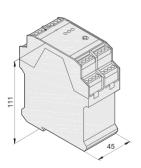
Material: PA 6 plastic, glass fibre reinforced



Emergency opener **B68.02.033***

AR Evaluation Unit for PROe

This electronic evaluation unit allows you to connect up to 20 PROe slam latches in series.



AR evaluation unit **K370000046**

Connection Accessories for PROe

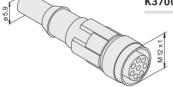
The PROe is connected using an M12 plug connector (8 pin). It is available with a cable length of 5 m, 10 m or 20 m.

Material: PVC

Connection cable, 8 pin, 5 m **K37000043**

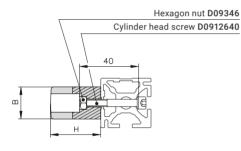
Connection cable, 8 pin, 10 m **K370000044**

Connection cable, 8 pin, 20 m **K37000045**

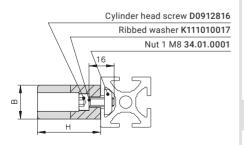




Fastening example for **K110000021** and **K110000020**



Fastening example for K110000009 and K110000010



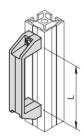
Handles

Bracket Handles

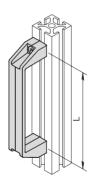
Bracket handles enable better handling of maintenance doors, windows and various covers and flaps.

Material: PA plastic

25 40 50 60



Bracket handle	Length [mm]	Width [mm]	Height [mm]
K110000021	122	26	41
K110000020	152	28	60



Bracket handle	Length [mm]	Width [mm]	Height [mm]
K110000009	117	26	41
K110000010	179	28	50

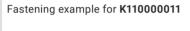


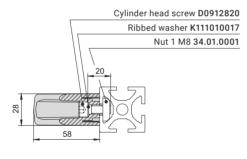


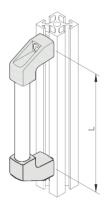
Bracket Handles

Material: PA6 plastic end pieces, anodised aluminium tube

25 40 50 60



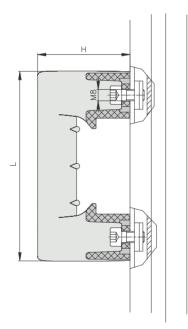




Bracket handle	Length [mm]	Width [mm]	Height [mm]
K110000011	200	28	58
K110000012	300	28	58
K110000013	400	28	58



Fastening example for K110000023



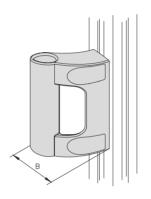
Handles

Machine Handles

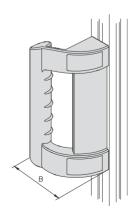
Machine handles enable better handling of maintenance doors, windows and various covers and flaps. They are delivered with caps.

Material: PA plastic

25 40 50 60



Machine	Length	Width	Height
handle	[mm]	[mm]	[mm]
K110000023	135	65	72



Machine	Length	Width	Height
handle	[mm]	[mm]	[mm]
K110000025	240	80	100



Handles

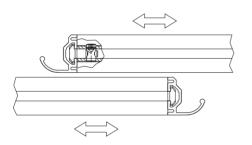


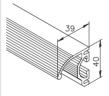
Profile for Strip Handles

The mk 2244 application profile is used as a strip handle for sliding doors. The ribbing provides the perfect structured surface for easily opening and closing sliding doors along their entire height.

Material: Anodised aluminium

Fastening example





Profile mk 2244

0.87 kg/m

Stock length	52.44.5100
Cut	52.44

Section 8 Industrial Workstations



Notes on Industrial Workstations

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Manual-Hydraulic	
Height Adjustment	288
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Electrical Height Adjustment	
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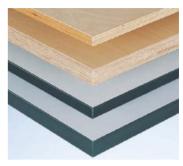


Table Tops

Table Top Materials 292 **Table Top Fasteners** 293



Drawer Cabinets



Risers



Provision of Material

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Lighting

LED System Lamps LED Illuminated Magnifying Glass



Power Supply

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Pneumatic Supply Electrical Supply



Accessories

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Support Brackets Floor Mats

Application Profiles for Workstations

Profiles for Telescoping 316
Profiles for Table/
Machine Frames 318
Profile for Support Brackets 319

Notes on Industrial Workstations



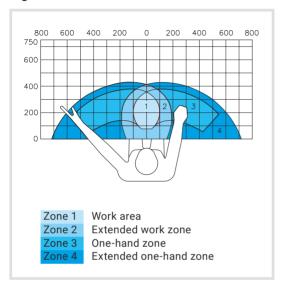
Benefits of mk Industrial Workstations

- Ergonomic and highly functional industrial workstations for optimal productivity
- Aluminium profile construction for ultimate flexibility to expand and make changes
- Table frame with an adjustable height and variable material provision systems allow the workstation to be adapted to the employee
- Extensively customisable, with risers, shelving systems, electrical and pneumatic supply options, tool hangers and drawer cabinets
- mk's extensive experience in expanding these stations into complete assembly lines, including workstation interlinking
- Custom solutions to fit existing processes, including requirements relating to lean production, kanban, ESD or cleanroom processes

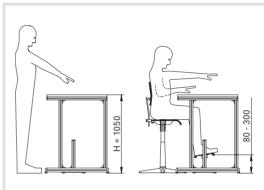


Workstation Ergonomics

Ergonomic Reach Zones



Ergonomic Sit-to-Stand Workstation



The option to sit or stand can be provided with a height adjustment mechanism or using a chair and footrest, as shown here. This reduces strain on the employee's spine and intervertebral discs.

The word "ergonomics" comes from Greek and translates roughly to the study of human work. Having ergonomically designed industrial workstations not only increases productivity and reduces the rate of mistakes, but also improves employee health and therefore improves morale and the working environment. mk industrial workstations can be quickly and easily adjusted each employee's particular physical

needs. This includes a height adjustment mechanism and a design that allows the workpiece, the tools and the bins for providing materials to be optimally positioned within the employee's reach for the particular task. This helps employees avoid unhealthy postures and optimises productivity. Providing optimal lighting for the particular task is another critical factor that mk has incorporated with its variable lighting system.

Notes on Industrial Workstations

Standards and Regulations

In designing its industrial workstations, mk has followed all applicable standards and regulations, for example DIN EN ISO 6385 (Ergonomics principles in the design of work systems).

Earthing and Protective Conductors

If industrial workstations are electrified (e.g. lighting, electrical sockets, etc.), DIN VDE 0100-410 specifies that all of a workstation's conductive components must be connected together and with the protective conductor of the supply line so that protection against electric shock is ensured in the event of a fault

Connecting the profiles with angles and ESD nuts, sometimes known as PE nuts, ensures conductivity throughout the entire workstation. If the workstation is electrified after construction, this means that the protective conductor has to be connected to the workstation in only one location to provide earthing.

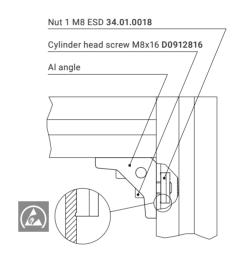
Earth Terminal

The earth terminal is used to connect the protective conductor to the industrial workstation to ensure protection against electric shock. This also protects sensitive components against electrostatic discharge.



Angle Fastener with ESD Nuts

The pressed protrusion on the nut penetrates the profile's insulating anodised coating and ensures that the connection is conductive through the screw connection.



R

Notes



For table tops, see page 292

Table Frames

Fixed Working Height

Our table frames with a fixed working height are made from mk's Series 40 profiles and feature a sturdy pedestal design. The standard dimensions shown here allow it to be used as a sit-to-stand workstation. Custom dimensions can also be implemented, although our standard range complies with ergonomics recommendations from the applicable standards.

Table frame C1

B02.13.030

Loads

Load scenario	Top thickness	Surface load	Total load
Static load	< 35 mm	2000 N/m²	2000 N
Static load	> 35 mm	2500 N/m²	4000 N

Standard dimensions (mm)

Height H*	Depth T	Width B
850	600	1200
1050	750	1400
		1600

^{*}Including 25 mm table top

Other dimensions possible. Heavy-duty design for high loads available on request. Steel privacy panelling in various RAL colours available.





Manual Height Adjustment

Our table frames with an adjustable working height are made from mk's Series 40 profiles and feature a sturdy pedestal design. In this table design, the height is adjusted using telescoping profiles with a fastening screw. This allows the working height to be easily adjusted while maintaining stability and load capacity.



For telescoping profiles, see page 316 For table tops, see page 292

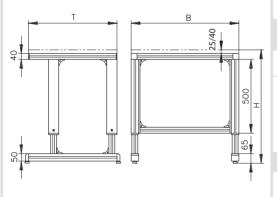


Table frame D1

B02.13.040

Loads

Load scenario	Top thickness	Surface load	Total load
Static load	< 35 mm	2000 N/m²	2000 N
Static load	> 35 mm	2500 N/m²	4000 N

Standard dimensions (mm)

Height H*	Depth T	Width B
680 to 1070	600	1200
	750	1400
		1600

^{*}Including 25 mm table top

Other dimensions possible. Heavy-duty design for high loads available on request. Steel privacy panelling in various RAL colours available.



For telescoping profiles, see page 316 For table tops, see page 292

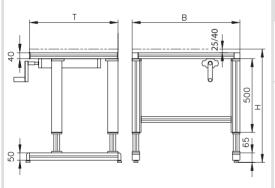


Table Frames

Manual-Hydraulic Height Adjustment

Our table frames with an adjustable working height are made from mk's Series 40 profiles and feature a sturdy pedestal design. In this table design, the height is adjusted using telescoping profiles with a matching gliding assembly and a hand crank. This allows you to quickly adapt the working height to the user or the workpiece. The employee can also switch between sitting and standing. The required driving torque of about 6 Nm is within the boundaries of the ergonomics requirements for the design of control actuators, DIN EN 894-3, for manual actuation. 5 mm stroke per crank rotation.

Table frame D4

B02.13.043

Loads

Load scenario	Top thickness	Surface load	Total load
Static load	< 35 mm	2000 N/m²	2000 N
	> 35 mm	2500 N/m²	2800 N
Dynamic load*	< 35 mm	1600 N/m²	1600 N
	> 35 mm	1600 N/m²	1600 N

^{*}Maximum load under which the table can still be moved

Standard dimensions (mm)

Height H*	Depth T	Width B
680 to 1070	750	1200
	800	1400
		1600

^{*}Including 25 mm table top

Other dimensions possible. Heavy-duty design for high loads available on request. Steel privacy panelling in various RAL colours available.





Electrical Height Adjustment

Our table frames with electrical height adjustment made from mk's Series 40 profiles are suitable for both sitting and standing. A button with an optional memory function is used to adjust the height of the workbench within a 400 mm range. A selection of different table tops, accessory components and additions such as risers are presented on the following pages.

Technical data

Travel speed	v = 12 mm/s
Voltage/frequency	230 V/50 Hz
Operating voltage (secondary)	24 V DC
Controller protection class	IP20
Motor/remote control protection class	IP30
Turnkey system with 3 m mains cable	



For table tops, see page 292

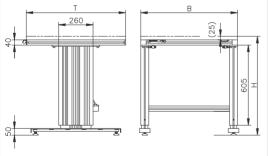


Table frame J1

B02.13.090

Loads

Load	Top	Surface	Total
scenario	thickness	load	load
Static load	25-40 mm	2000 N/m ²	3000 N

Standard dimensions (mm)

Height H	Depth T	Width B
720 to 1120	700	1200
+ table top thickness	750	1600
	800	2000

Other dimensions possible.



For table tops, see page 292

Table Frames

Electrical Height Adjustment Heavy-Duty

The heavy-duty version of the workbench with electrical height adjustment features a table frame made from mk 2040.02 profiles that goes around the entire table and a maximum load capacity of 4500 N. A button with an optional memory function is used to adjust the height of the workbench within a 400 mm range. A selection of different table tops, accessory components and additions such as risers are presented on the following pages.

Technical data

Travel speed	v = 9 mm/s
Voltage/frequency	230 V/50 Hz
Operating voltage (secondary)	24 V DC
Controller protection class	IP20
Motor/remote control protection class	IP30
Turnkey system with 3 m mains cable	

Table frame K1 (heavy duty) B02.13.100

Load	Top	Surface	Total
scenario	thickness	load	load
Static load	40 mm	3000 N/m ²	4500 N

Standard dimensions (mm)

Height H	Depth T	Width B
760 to 1160	700	1200
	750	1600
	800	2000

Other dimensions possible.

Я

Notes





Table Tops

Table Top Materials

Potential factors for choosing a table top material include the stability and material of the workpiece and the wear resistance of the table top. Environmental conditions such as moisture or high temperatures can also influence the choice of material. On request, other surface materials such as stainless steel sheet or laminated wood can be used. ESD-compatible tops are also available on request.

Beechwood Multiplex Tops

- Multi-bonded beechwood
- Resistant to warping
- Jointless
- Ground natural surface, waterproofed on request

Laminated Tops

- Laminated particleboard
- Light grey standard colour
- Black edge band with rounded edges (grey on request)
- High resistance to shocks and impacts

Thickness	Mass	Item no.	Thickness	Mass	Item no.
25 mm	18.9 kg/m ²	50.13.5005	20.6 mm	15.5 kg/m2	50.13.6004
40 mm	30.0 kg/m ²	50.13.5008	26.6 mm	20.0 kg/m2	50.13.6005
			39.6 mm	27.2 kg/m2	50.13.6008

Painted surfaces on request.

Conductive design (ESD) on request.





Angles starting on page 78

Fastening example

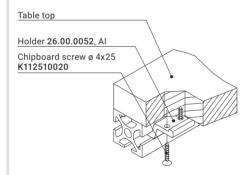




Table Top Fasteners

The table tops can be mounted using angles or with the fastener set shown here. Holders such as angles can be used for both multiplex and laminated tops in any thickness offered.

Fastener set for 20 to 40 mm table tops **B02.99.050**

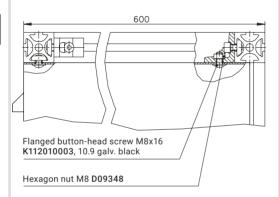
Consists of: 6 x holders **26.00.0052** 12 x chipboard screws ø 4x25 **K112510020**



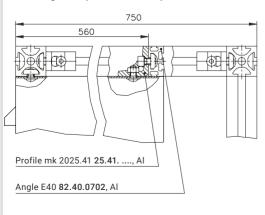
Drawer Cabinets

Drawer cabinets provide storage space without reducing the actual working area. The casing has a solid sheet steel construction. It can withstand loads up to 200 kg. All drawer cabinets are equipped with a cylinder lock and painted in RAL 7035.

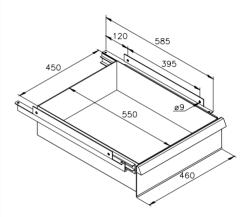
Fastening example for table depth T = 600



Fastening example for table depth T = 750



Drawer cabinet, single drawer



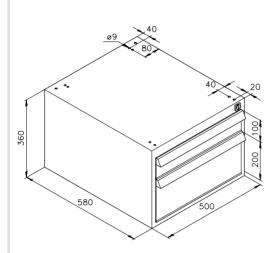
Single drawer **B02.23.903**

m = 8 kg

Fastener set **B02.99.004**



Drawer cabinet, two drawers



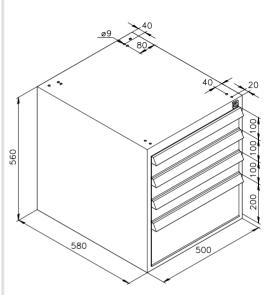
Two drawers **B02.23.902**

m = 23 kg

Fastener set Table depth T = 600 mm **B02.99.001**

Fastener set Table depth T = 750 mm **B02.99.002**

Drawer cabinet, four drawers



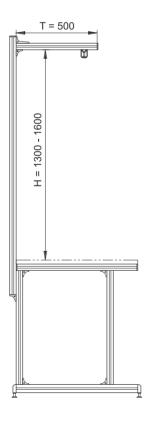
Four drawers **B02.23.901**

m = 35 kg

Fastener set Table depth T = 600 mm **B02.99.001**

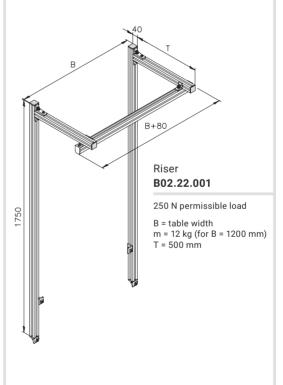
Fastener set Table depth T = 750 mm **B02.99.002**

For table tops, see page 292

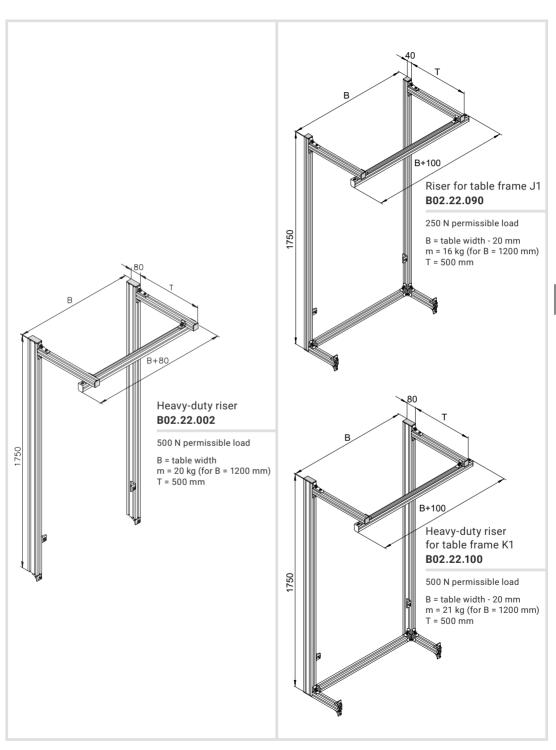


Risers

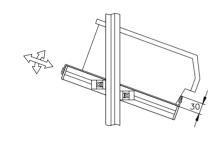
Risers are used for mounting additional parts above the table top, for example shelves, electrical/pneumatic supply components or tools. They come equipped with a C-rail as standard for attaching tool sliders. The heights of the riser's beams and cantilevers can be adjusted. We offer a heavy-duty riser design for higher load requirements.

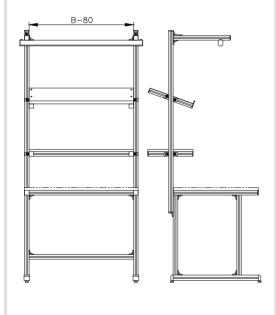








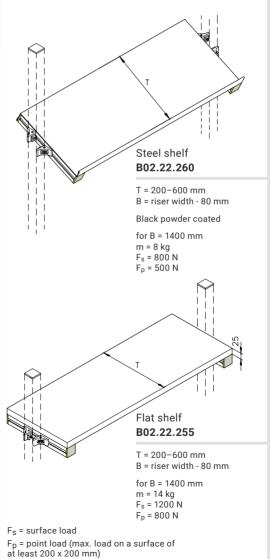




Provision of Material

Rack Systems

Rack systems are used to hold bins, tools, measuring instruments or components to be mounted. You can use various angles to adapt the depth, height and incline of the rack system for optimal positioning. Please specify the width and depth when ordering.

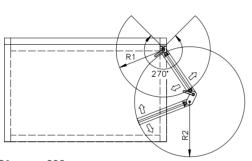




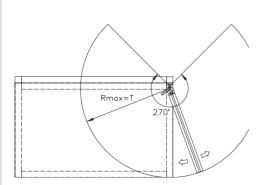


Swivel Arms

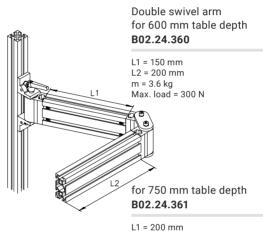
Uses for swivel arms range from holding shelves, to holding containers for small parts, to connecting monitors. In addition to creating additional work space, they can be adjusted to provide an ergonomically optimal layout for the worker. The clamping lever or cylinder head screw can be used for attachment.

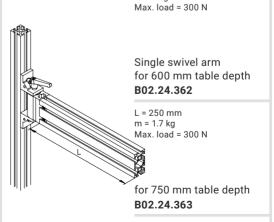


R1 max = 290 mm R2 max = 340 mm



T = table depth

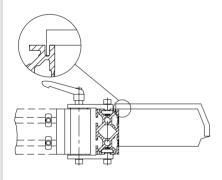




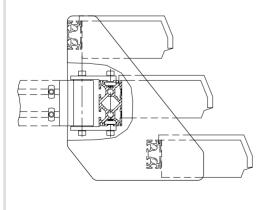
L2 = 300 mm m = 4 kg

L = 400 mm m = 2.2 kg Max. load = 300 N

Series 40, 2.75 mm slot width, for bin LF211/LF221



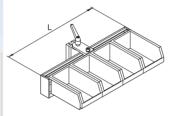
Series 25, 2.75 mm slot width, for bin LF211 only



Provision of Material

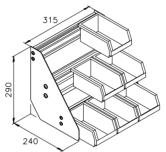
Bin Mounts

With bin holders, bins can be attached to swivel arms to allow for optimal ergonomic positioning. Alternatively, bins can be mounted on mk 2040.22 profiles.



Bin holder **B02.24.366**

L = (bin width + 1 mm) x N



Rack **B02.24.367**

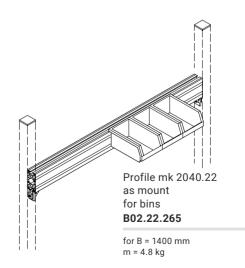
with swivel arm connection

m = 3.4 kg

Rack **B02.24.356**

without swivel arm connection

m = 2.5 kg

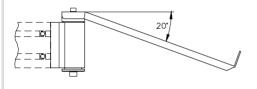


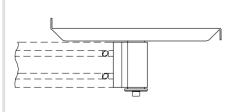


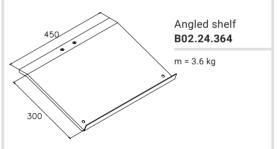


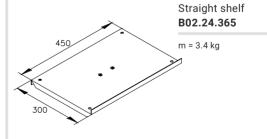
Shelves

Angled or straight shelves are connected to a swivel arm and can thus be brought into the ideal ergonomic position.









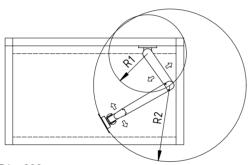


Provision of Material

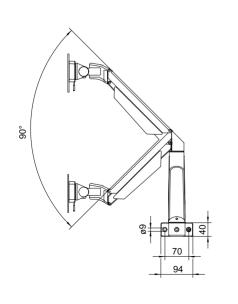
Monitor Mount

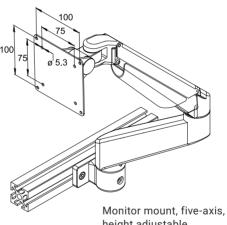
The monitor mount with included mounting plate and flange can be attached to vertical or horizontal profiles or to surfaces. It is extremely flexible, with five axes, height adjustment, and 360-degree monitor swivel. It is suitable for VESA-compatible monitors (VESA 75 and 100).

Material: monitor mount made of die-cast aluminium, mounting material steel



R1 = 200 mm R2 max = 390 mm





height adjustable K120000118

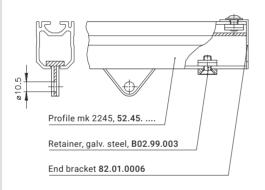
configurable load: 2-10 kg with fastening accessories

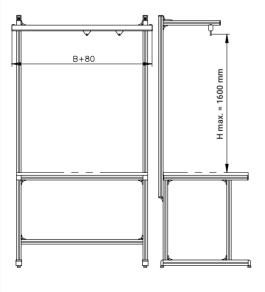


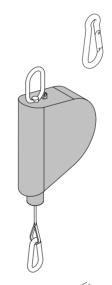


Tool Hangers

The tool hanger components shown here are just our standard selection. Custom components are also available on request. Tools hangers improve organisation and safety at the workstation. They also make tools available without encroaching on the work space. The adjustable spring tension system reduces strain and improves ergonomics for the user.







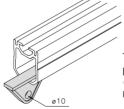
Snap hook **K120010003**

Spring balancer F2 **K120010006**

Load capacity: 0.5–2.0 kg Max. rope extension: 2.5 m Min. installation length: 0.36 m

Spring balancer F3 **K120010005**

Load capacity: 1.5-3.0 kg Max. rope extension: 2.5 m Min. installation length: 0.36 m



Tool slider **K120010004**

PAGF plastic



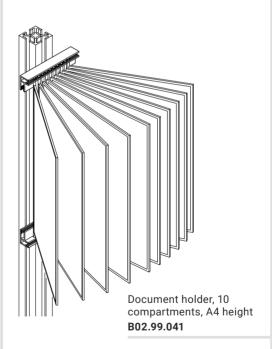
Roller unit for carrying cables and hoses **K120010001**



Provision of Material

Document Holders

Document holders allow you to protect and store documents, such as instructions for mounting, etc., at the workplace in an orderly manner.







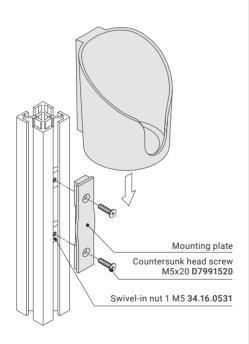
Bottle Holders

Bottle holders have a diameter of 100 mm and are designed for the secure storage of all common beverage bottles, cans, cups and drink boxes. The cut-out at the front makes the holders suitable for cups with a handle. The version with an open bottom can also be used to store a screwdriver or other such equipment.

Material: PA plastic

25 40 50 60

Fastening example

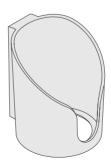




Bottle holder with closed bottom **K120000120**

Including mounting plate

Total load = max. 5 kg

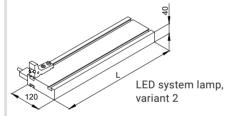


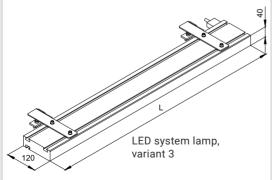
Bottle holder with open bottom **K120000121**

Including mounting plate
Total load = max. 5 kg



Dimensional sketches





Lighting

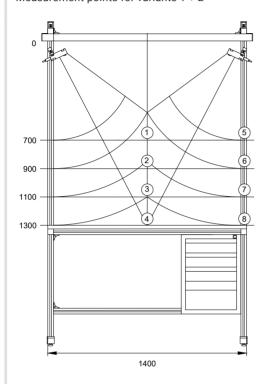
LED System Lamps

mk's LED system lamps provide bright, even lighting of the work space without glare. The colour temperature is 5000K at a power of 15 to 64 watts, depending on the variant. The lamps are CE certified, designed for operation with a 230V mains voltage and delivered with a three-metre connection cable. They can be rigidly mounted or can be made to swivel using a flexible holder set. The swivel range is from 25° backwards to 90° forwards. Variants 1 and 2 function as swivelling side lighting and are attached on the right or left side using angles.

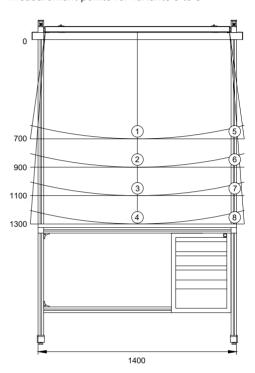
Vari- ant	Item no.	L [mm]	Power [W]	Mounting
1	B02.23.806 001	449	15	Left/ swivelling
2	B02.23.806 002	449	15	Right/ swivelling
3	B02.23.806 003	899	35	Swivelling
4	B02.23.806 004	899	35	Rigid
5	B02.23.806 005	1199	40	Swivelling
6	B02.23.806 006	1199	40	Rigid
7	B02.23.806 007	1499	64	Swivelling
8	B02.23.806 008	1499	64	Rigid



Measurement points for variants 1 + 2



Measurement points for variants 3 to 8

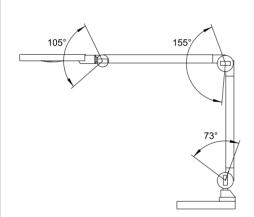


Illuminance

Measurement point	Variant 1 + 2 (lux)	Variant 3/4 (lux)	Variant 5/6 (lux)	Variant 7/8 (lux)
1	500	1550	1650	2000
2	450	1350	1450	1800
3	380	1150	1250	1600
4	300	1000	1100	1400
5	400	700	700	1000
6	350	650	650	820
7	300	580	600	750
8	250	500	550	7000



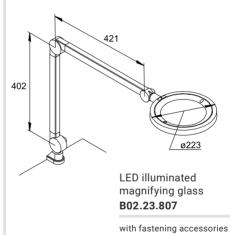
LED



Lighting

LED Illuminated Magnifying Glass

The LED illuminated magnifying glass provides the perfect combination of ideal magnification and excellent illumination. The illuminated magnifying glass is intended for use wherever unaided human eyes come up against their limits. A field of view perfectly adjusted to the distance between the eyes ensures distortion-free vision and ergonomic work. A well-balanced articulated arm and stepless dimming make the LED illuminated magnifying glass an indispensable tool for all manner of industrial applications.



Watts [W]	Em [lx]	Emin [lx]	Emax [lx]
15 W	5176	1784	7457

Em = average illumination strength Emax = maximum illumination strength Measuring field for the illumination strength 30x30 cm Measuring distance 15 cm

8

Notes



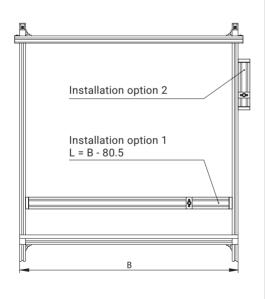


Pneumatic components see page 204

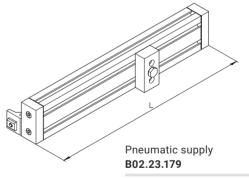
Power Supply

Pneumatic Supply

Pneumatic power is supplied via the mk 2040.02 construction profile. A major advantage of using profiles to supply the air is that it allows for great flexibility in the position and quantity of connection/distributor plates. The pneumatic supply system is designed for a maximum operating pressure of 6 bar.



Base unit with connection plates, assembly available in various configurations



for B = 1400 mm m = approx. 5.5 kg

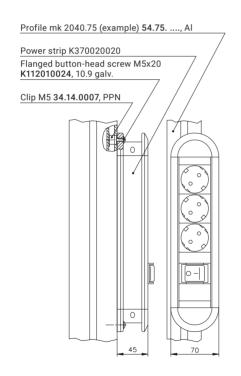


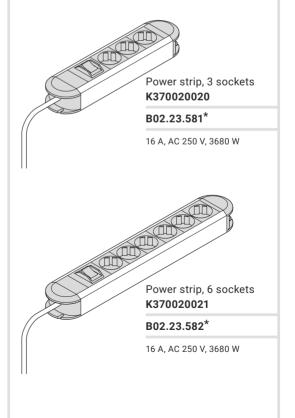


Electrical Supply

The simplest way to supply electricity is using power strips in two different designs. The strips have an illuminated 16 A rocker switch, which has a 2-pole switch-off. The supply lines are 1.75 m long. They contain a longitudinal slot and eyelet for fastening them in various positions on the profile.

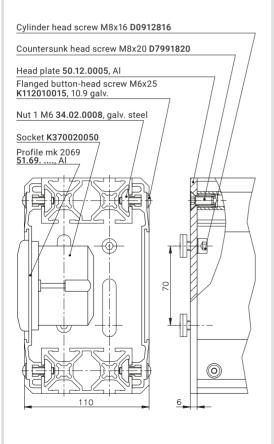
Fastening example







Fastening example

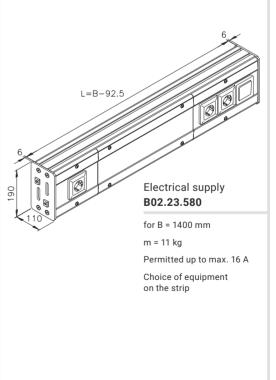


Power Supply

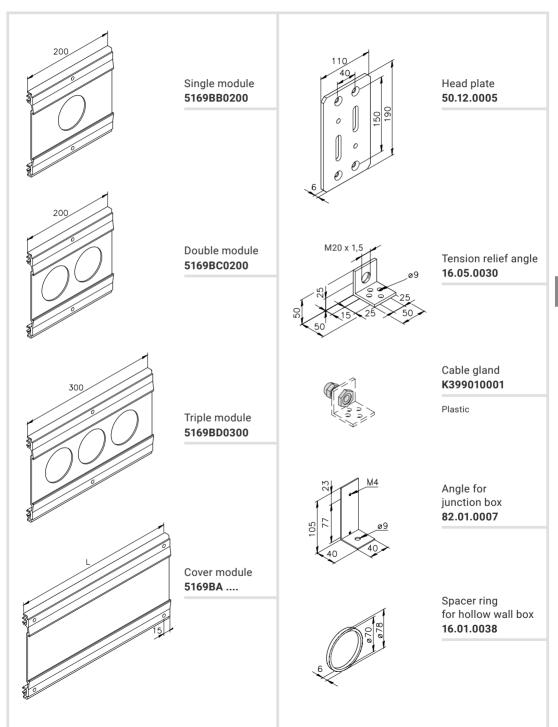
Electrical Supply

The standard electrical supply system is a combination of mk 2040.41 and mk 2069 profiles. The unit features exceptional stability and a closed design. Various sockets and switch combinations can be freely positioned along the entire working width. A major advantage of this system is that you can change or add equipment very easily, even custom components. The power supply system is tested in accordance with DIN VDE 0100-410 and includes a circuit diagram. The unit is delivered with a 3 m cable and plug.

Material: Anodised aluminium





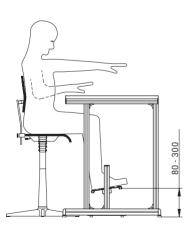


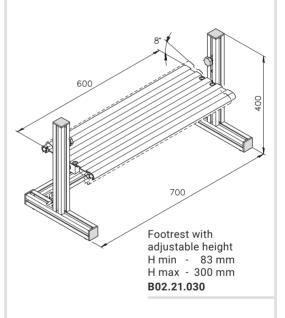


Accessories

Support Brackets

The correct seat height adjustment is an important prerequisite for low-stress work at the workbench. This is correct when the forearms/upper arms are parallel to the table surface, the upper and lower leg are at an angle of at least 90° and the feet are resting completely on the floor. If the workbench is too high, a footrest can compensate for the distance between the feet and the floor. The infinitely adjustable footrest ensures the most comfortable foot position and relieves the legs ensuring pleasant working conditions.











Floor Mats

Floor mats made from black TPE-V ensure that workers do not slip at industrial workstations while also reducing strain on their musculature and skeletal systems.

Benefits:

- Hollow spaces reduce strain on the musculature and joints
- Anti-slip
- Oil resistant
- Various dimensions up to 1.2 m wide and 15 m long with 3 mm thickness
- Highly flame-resistant version available



Floor mat

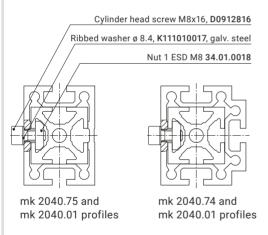
Item no.	Width B [mm]	Length L [m]
K12002.0600	600	max. 15
K12002.0800	800	max. 15
K12002.1000	1000	max. 15
K12002.1200	1200	max. 15

Floor mat B1

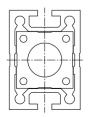
(highly flame resistant according to DIN 4102-1 B1)

Item no.	Width B [mm]	Length L [m]
K12003.0600	600	max. 15
K12003.0800	800	max. 15
K12003.1000	1000	max. 15
K12003.1200	1200	max. 15

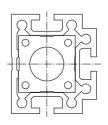
Telescoping profiles for manual height adjustment



Telescoping profiles for hydraulic height adjustment



mk 2040.75 and mk 2040.36 profiles



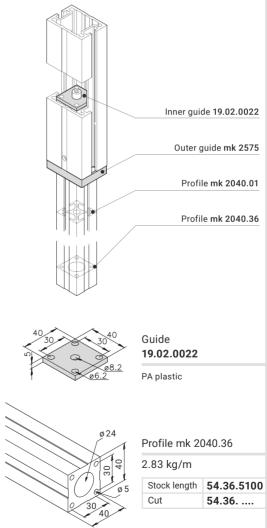
mk 2040.74 and mk 2040.36 profiles

Application Profiles for Workstations

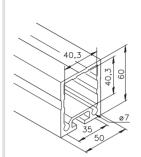
Profiles for Telescoping

The following components can be used to construct telescoping/height-adjustable table frames and other support frames.

Material: Anodised aluminium



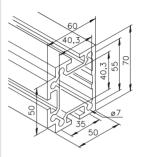




Profile mk 2040.38

2.52 kg/m

Stock length	54.38.5100
Cut	54.38

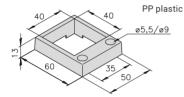


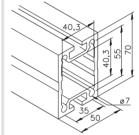
Profile mk 2040.74

3.50 kg/m

Stock length	54.74.5100
Cut	54.74





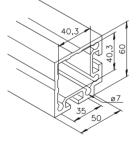


Profile mk 2040.75

3.01 kg/m

Guide **mk 2575**

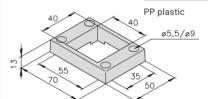
Stock length	54.75.5100
Cut	54.75



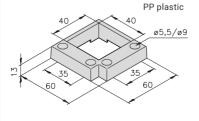
Profile mk 2040.39

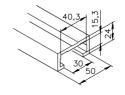
3.00 kg/m

Stock length	54.39.5100
Cut	54.39



Guide mk 2539





Profile mk 2040.37

1.17 kg/m

Stock length	54.37.5100
Cut	54.37

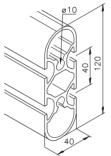


Application Profiles for Workstations

Profiles for Table and Machine Frames

The following profiles can be used to build frames for tables, signs, presentation stands, desks, etc.

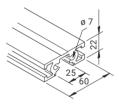
Material: Anodised aluminium



Profile mk 2040.34

3.56 kg/m

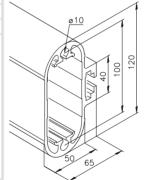
Stock length	54.34.710
Cut	54.34



Profile mk 2040.35

1.61 kg/m

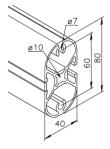
Stock length	54.35.5100
Cut	54.35



Profile mk 2040.30

4.29 kg/m

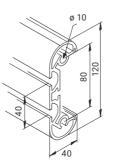
Stock length	54.30.5100
Cut	54.30



Profile mk 2040.23

2.12 kg/m

Stock length	54.23.5100
Cut	54.23



Profile mk 2040.33

3.16 kg/m

Stock length	54.33.5100
Cut	54.33

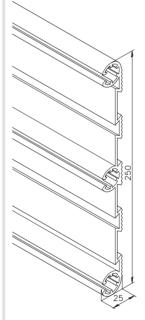




Profile for Footrests

The following profile is used to build footrests and can also be used as a stepping surface.

Material: Anodised aluminium



Profile mk 2040.70

3.53 kg/m

Stock length	54.70.5100
Cut	54.70

Section 9 Stairs and Platforms

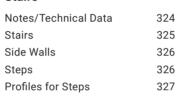


Notes on Stairs and Platforms



Stairs

322





Platforms

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Guardrails

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Notes on Stairs and Platforms



Safe access for safe work.

With our platforms, we offer custom solutions for safely accessing work areas and performing work on vehicles, machines and systems. The platforms we offer include custom assembly and maintenance platforms, simple standard platforms, and footbridges for use in production areas.

mk platforms are planned and manufactured to order. We take into account the specific conditions on site, such as large heights or the need for extended reach. Appropriate functions are then planned, such as height adjustment, mobile capabilities or integrated rotary joints. By utilising the mk profile system, we can fulfil virtually any requirement in terms of effective area, travel distance or minimum clearance, depending on the specific application.

The size of the platforms can vary from simple footbridges to assembly platforms that are 15 m long and 6 m high. Foamed combined profiles can be used to construct free-standing bridges of up 8 m.



Benefits of Stairs and Platforms

- Variety of designs and options that fulfil safety requirements and improve workstation ergonomics
- Modular design allows for easy assembly and disassembly using standard tools
- Large selection of configurations provided by the profile system gives us maximum flexibility to implement customer-specific functions
- High material quality, sturdy connection technology and high-quality accessories ensure high load capacities and long service lives
- Compatible modules and removable connection technology allow for easy modifications and additions
- High-quality aluminium profiles for an attractive design
- Mobile designs available with fixed or swivel casters or air cushions









Stairs

Notes/Technical Data

Stairs are made from mk 2040.68, mk 2040.69 and mk 2040.06 profiles. The profiles used in the stairs have a slip-reducing surface structure. The screw connections in the profile slots eliminate the need for machining components.

Sample order

Width (B) = 1000 mm Height (H) = 1800 mm Angle = 45° Number of steps = 10

Incline angle

Stairs can be designed with various inclines depending on the intended function or available space. The recommended inclines for the stairs are based on the type of use. Our standard stairs have angles up to 45° For frequently used stairs on which loads are transported, the stairs should have an incline angle of 30° or 35°. If space is limited, the stairs can have a 60° incline.

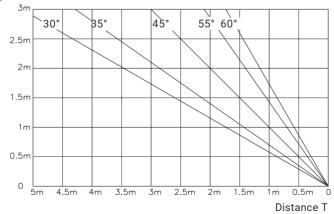
Note:

The distance between steps of 160 mm is suitable for climbing while transporting heavy loads.

Step distance TA = 160 mm Number of steps = (height H ÷ 160) - 1 (rounded down)

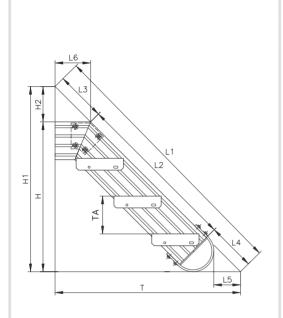
Step distance TA = 190 mm Number of steps = (height H ÷ 190) - 1 (rounded down)





Step height Step height 160 mm 190 mm No. of No. of steps Height steps Height - 3040 3040 15 -17 2880 2850 14 16 2720 13 - 2660 2560 15 12 2470 14 2400 2280 13 2240 12 10 2090 11 1920 - 1900 a 10 1760 - 1710 8 9 1600 - 1520 8 1440 - 1330 6 1280 5 - 1140 6 5 960 950 800 760 640 570 480 380 320 190 0 160 Ω 0





Formulas for calculation:

30° T = H1 x 1.732 L2 = H x 2 - 314.5

35° T = H1 x 1.428 L2 = H x 1.743 - 267.5

45° T = H1 L2 = H x 1.414 - 204.4

55° T = H1 x 0.7002 L2 = H x 1.22 - 163.5

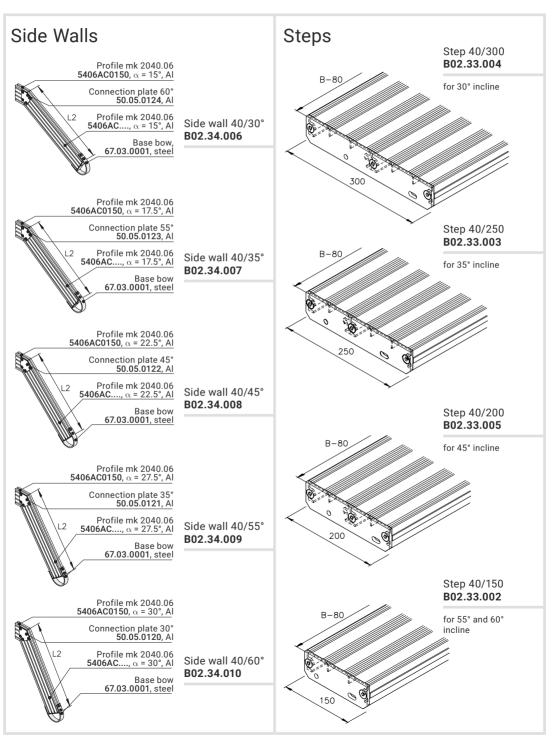
60° T = H1 x 0.5774 L2 = H x 1.155 - 147.7

	H1	H2	L1	L3	L4	L5	L6
30°	H+86.6	86.6	L1=L2+487.5	173.2	314.5	224.5	150
35°	H+105	105	L1=L2+450.5	183.1	267.5	177	150
45°	H+150	150	L1=L2+416.5	212.1	204.5	113	150
55°	H+214	214	L1=L2+425	261.5	163.5	71	150
60°	H+260	260	L1=L2+448	300	148	55	150

H = platform height

Stairs Stairs 30° B02.31.005 Stairs 35° B02.31.006 Stairs 45° B02.31.007 Stairs 55° B02.31.008 Stairs 60° B02.31.009

Stairs





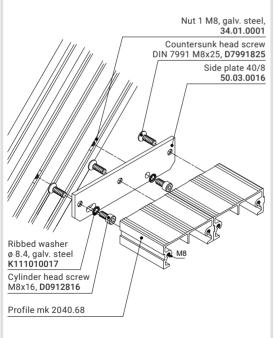


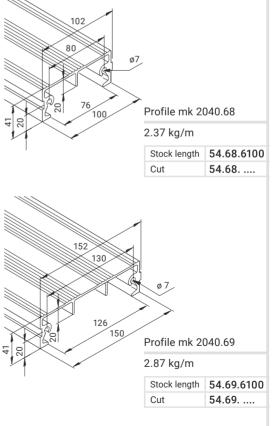
Profiles for Steps

Special profiles for building steps, machine platforms, walkways and platforms. The profiles can be connected side to side to create large stepping surfaces.

Material: Anodised aluminium

Fastening example





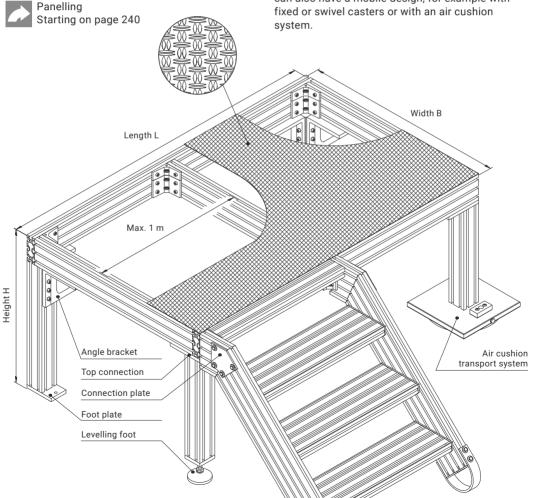


Platforms

Notes/Technical Data

With its four series of profiles, the mk profile system offers nearly endless combinations for constructing platforms. Span widths of up to 8 m can be achieved, for example with foamed combined profiles. The components listed below are only our basic components.

Platforms are covered with chequer sheets as standard or with profiles on request. For industrial applications, the platform's outer contours are equipped with toe kicks (100 mm minimum height) in accordance with DIN EN ISO 14122-2. Platforms can also have a mobile design, for example with fixed or swivel casters or with an air cushion system.

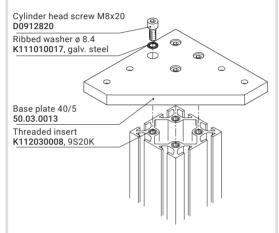




Connection Details

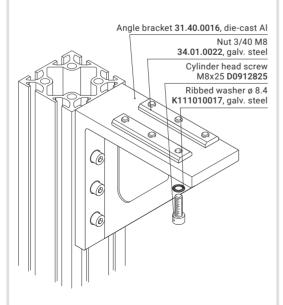
Base plate connection

A base plate is a safe and simple option for connecting the stairs. Three profiles are connected with single element.



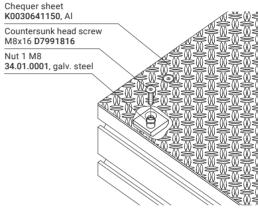
Angle bracket connection

The angle bracket connection option is intended for the most demanding stability requirements. The die-cast aluminium angle brackets have 12 mounting bores and are designed for large span widths.



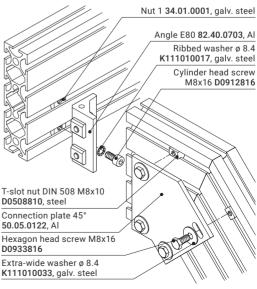
Floor fastening

The Duet chequer sheet can be used as the floor surface as an alternative to floor profiles. It is easily screwed onto the base structure.



Side wall fastening

The stair's side walls consist of two cut profile sections each that are connected at their mitre-cut ends with a connection plate, allowing the horizontal profile section to be screwed to the platform using angle E80.





Guardrails

Notes/Technical Data

Guardrails have many applications, such as stairs, work platforms and other platforms. Stairs with four or more steps must have a guardrail.

For steps up to 1500 mm in width, the guardrail must be mounted on the right side in the descending direction. Steps wider than this require a guardrail on both sides.

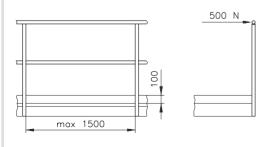
Knee braces

Guardrails are always equipped with knee braces (cross struts between two rail posts). The distance from the knee brace to the platform floor can be 500 mm at maximum.



Post spacing

The distance between the posts must be less than 1500 mm. The distance must be chosen so that the guardrail can support a lateral force of 500 N/m.



Hand rail

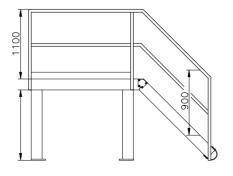
The mk 2040.16 profile has a diameter of 40 mm that complies with the requirements of the DIN EN ISO 14122-3 standard. Both the connection equipment and the end caps of the hand rails have large radii to prevent injuries.

Rail height

Legal regulations specify various minimum heights for guardrails. Guardrails on stairs must be at least 900 mm height, and guardrails on platforms must be 1100 mm.

Toe kicks

Min. height = 100 mm





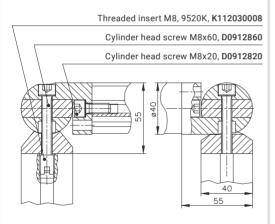


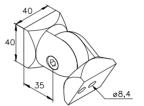
Hinges for Hand Rails

Our lightweight and sturdy hinges for hand rails are always used in combination with mk 2040.01 and mk 2040.16 profiles. The hinges are also available in optional surface variants, such as anodised or painted in various RAL colours.

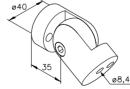
Material: Tumbled aluminium

Fastening example with hinge 40/H5 **B46.01.026**

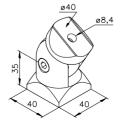




Hinge 40/H1 **B46.01.022***



Hinge 40/H2 **B46.01.023***



Hinge 40/H4 **B46.01.025***

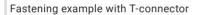
^{*}With fastening accessories

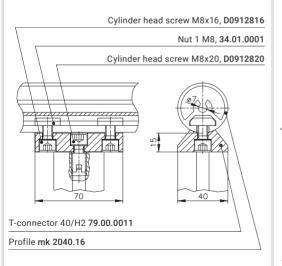


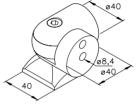
Guardrails

Hinges for Hand Rails

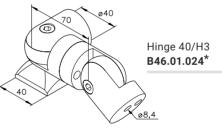
Material: Tumbled aluminium

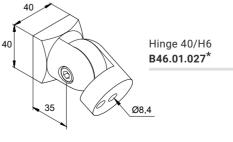






Hinge 40/H5 **B46.01.026***

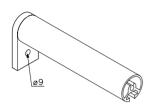


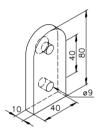




Wall Joint

Material: Tumbled aluminium

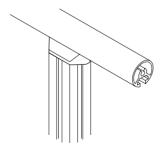


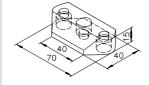


Wall joint **50.03.0034**

T-connection

Material: Tumbled aluminium

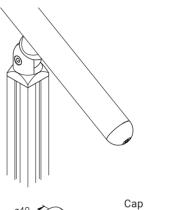




T-connector 40/H2 **79.00.0011**

Cap

Material: Tumbled aluminium



ø40 (20) **76.01.0002**

Section 10 Tools



Twist Drills



Taps and Forming Taps

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336 Taps Forming Taps **HELICOIL Taps**



Installation Tools

Installation Tool for Threaded Insert 336 Installation Tool for 336 HELICOIL

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Allen Wrench Set

Magnetic Holders for Nuts



Parting Tool for Cleanroom Profiles

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Drilling Jigs

Drilling Jigs for Tension Plugs	338
Drilling Jigs for Cleanroom Profiles	339
Drilling Jigs for Pneumatic Components	340

Tools



Order no.	Туре
K903000058	Twist drill, ø 5.8
K903000070	Twist drill, ø 7
K903000080	Twist drill, ø 8
K903000090	Twist drill, ø 9

Taps and Forming Taps



Order no.	Туре
K903060005	Tap, M5
K903060105	Tap, M5x0.5
K903070008	Forming tap, M8
K903060008	Tap, M8
K903060108	Tap, M8x1
K903060109	Tap, M9x1
K903060010	Tap, M10
K903060012	Tap, M12
K903060113	Tap, M12x1.5
K903060016	Tap, M16
K903060116	Tap, M16x1.5

Order no.	Туре
K903060204	Tap, (HELICOIL) M4
K903060206	Tap, (HELICOIL) M6
K903060208	Tap, (HELICOIL) M8
K903060210	Tap, (HELICOIL) M10

Installation Tool for Threaded Insert



Order no.	Туре	Thread	Length
K902010004	Н	M3	58 mm
K902010005	М	M3	82 mm
K902010008	Н	M5	69 mm
K902010009	М	M5	101 mm
K902010010	Н	M6	74 mm

Order no.	Туре	Thread	Length
K902010011	М	M6	102 mm
K902010012	Н	M8	81 mm
K902010013	М	M8	105 mm
K902010016	Н	M12	95 mm
K902010017	М	M12	118 mm

Туре

Н

Н

Thread

M8

M10

Type H = manual, type M = automatic

Installation Tool for HELICOIL



_			
Order number	Туре	Thread	Order number
K902010204	Н	M4	K902010208
K902010206	Н	M6	K902010210

Type H = manual



Allen Wrench Set



The ball side is used for quick and easy turning of the screw. When tightening, the long key side provides the necessary tightening torque. The wrenches are made of high-quality chromium-vanadium steel.

Order number	Туре	
K902005050	Wrench set, eight piece	

Magnetic Holders for Nuts



Strong magnetic lifting device with flexible brass hose and black plastic handle, chrome-plated surface, for holding nuts in inaccessible vertical slots.

Order number	Туре	
K901130001	Magnetic lifting device	

Parting Tool for Cleanroom Profiles



For cutting or exposing slots in clean-room profiles.

n-	Order number	Туре
	B46.03.102	Parting tool

Sanding Sponge



For smoothing the sharp edges of the exposed slots created by the parting tool.

Order number	Туре
K902030001	Sanding sponge



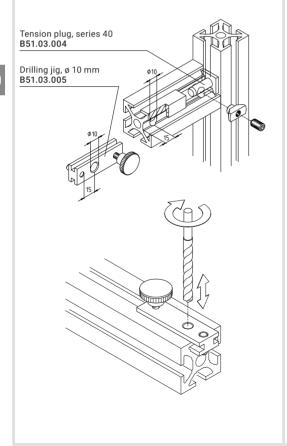
Tools

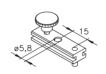
Drilling Jigs for Tension Plugs

Drilling jigs are used to precisely drill bores for tension plugs. The Ø 6 drilling jig is used for B51.03.009 tension plugs and the Ø 10 drilling jig is used for B51.03.004, B51.03.040 and B51.03.041 tension plugs.

Material: Hardened steel

Fastening example





25 40 50 60 Drilling jig

B46.03.003 ø 6 mm

A=15 mm

Drii B5

25 40 50 60

Drilling jig **B51.03.005**

ø 10 mm

A=15 mm

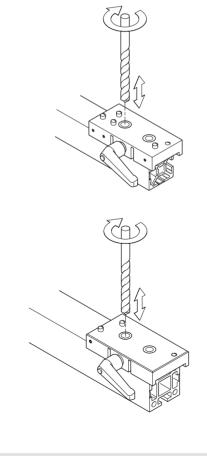


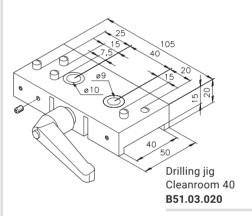


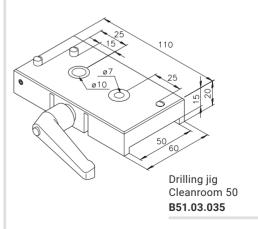
Drilling Jigs for Cleanroom Profiles

Drilling jigs with hardened steel bushings are used to drill bores in cleanroom profiles.

Material: Tumbled aluminium









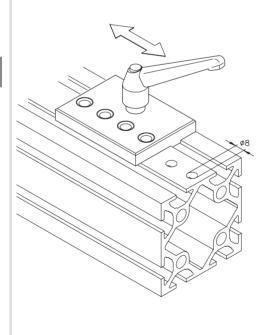
Tools

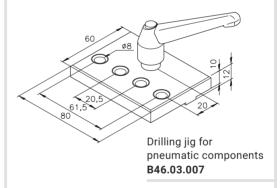
Drilling Jigs for Pneumatic Components

Drilling jigs with hardened steel bushings are used to drill bores in profiles for attaching pneumatic connections.

Material: Tumbled aluminium

25 40 50 60

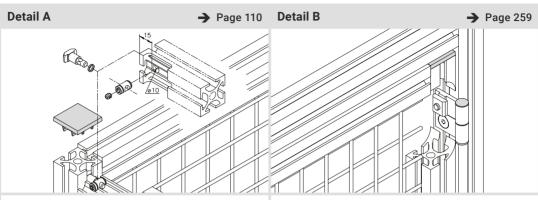












Tension plug

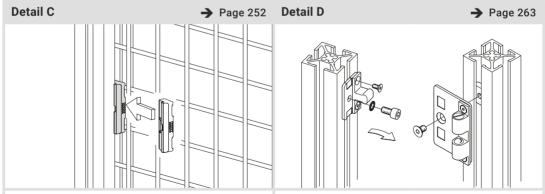
B51.03.040

The connection requires a \emptyset 10 mm through-bore 15 mm from the edge. Use the Series 40 drilling jig B51.03.005. After you insert the bolt in the bore, guide the tension plug into the profile's face and secure it by gently tightening the set screw. The traverse can now be connected to another profile in any position you wish.

Hinge 40-1/40-1

B46.01.010

A hinge is mounted between two profiles using countersunk head screws and nuts that fit the particular profiles series. The fastening accessories you need are included in the set. The keys on the hinge leaves ensure that the components are parallel.



Fence clip

mk 2544

Fence clips can be used to quickly mount welded grids onto Series 40 profiles. You simply hammer the clip into the profile slot. To adequately secure the welded grid in the profile frame, the fence clips should be a maximum of 200 mm from the corners and 520 mm from each other.

Ball latch

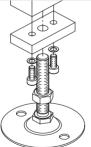
B68.02.101 for 5 mm door gap and B68.02.102 for 24 mm door gap

Ball latches are a simple and affordable option for locking doors that do not require safety interlocking. They are easily installed with screws and nuts.



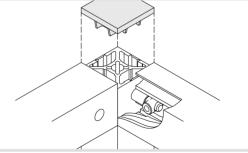
Protective device guard for applications in the cosmetics industry. Because of the stringent sanitary requirements, the machine housing was built from Series 40 cleanroom profiles with closed profile slots. Scratch-resistant Makrolon was used as the panelling material to provide an unobstructed view of the packaging station. Stainless steel levelling feet were also used, which are ideal for the conditions mandated by the sanitary regulations.





Stainless steel levelling feet B67.02.081

Stainless steel levelling feet are ideal for use in cleanrooms or for meeting FDA requirements. The foot's domed shape also ensures that liquids will run off. The height adjustment and swivel range allows the levelling foot to compensate for height differences and uneven surfaces. In addition, they can be anchored to the floor.



Cleanroom profiles with silver end caps mk 2040.96 profile with mk 2507SI end cap

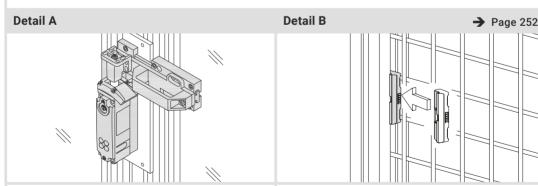
The caps match the matte silver colour of the anodised profiles to fit discretely into your overall structure. They are made of sturdy injection-moulded plastic and close the profiles' faces to protect against damage and provide seamless transitions at the edges.



Protective Device Guard for Measuring Station



The system's gripping and transfer station is safeguarded using panel frames with welded grids in a custom RAL colour all around the station. The in-feed area and the measuring cell are protected by panel frames with polycarbonate and cover panels. A space-saving folding door is installed in addition to the swing door.



Safety interlock

Safety interlock with tower bolt, folding door locking device, reliable lock monitoring and integrated CES-AP electronics. This interlock does not require a special evaluation unit. The interlock meets safety category 4 and PL e according to EN ISO 13849-1 when installed horizontally, i.e. with the top facing downwards. It has two failsafe semiconductor outputs and an OUT signal output, in addition to clocked safety outputs.

Fence clip

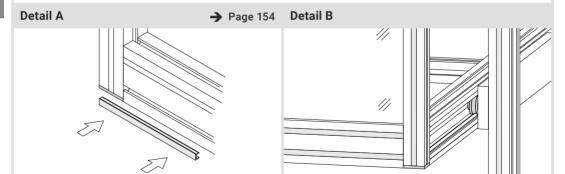
mk 2544

Fence clips can be used to quickly mount welded grids onto Series 40 profiles. You simply hammer the clip into the profile slot. To adequately secure the welded grid in the profile frame, the fence clips should be a maximum of 200 mm from the corners and 520 mm from each other.

Protective Device Guard with Drawers for Manual Removal



Protective device guard around a measuring station for crankshafts, built using partitions with welded grids. The front partitions are equipped with a drawer with full extension for manual removal of the parts. The back side of the drawer therefore closes off the protected area while the part is being removed, which means the process does not have to stop.



Closure strips

mk 3015

The open slots in the mk 2040.40 (40 x 40 mm), mk 2040.41 (40 x 80 mm) and mk 2040.45 (80 x 80 mm) profiles are closed using closure strips in a custom yellow colour in use at the customer's factory. The closure strips prevent dirt from getting in the slots. Various colour standards from mk allow for accents that are adapted to the customer's requirements.

Drawer with track roller assembly Profile guide B51.04.142

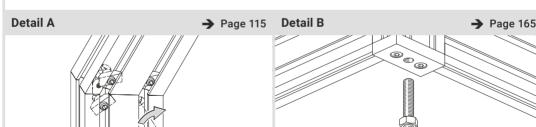
The drawer's track roller assembly is built from an interior profile guide (PF-10-38.77) with a Ø 10 mm guide rod. The roller carriage (LW 38.77-44) is fixed to the frame. Low rolling resistance allows easy opening and closing. The simple and sturdy design requires low maintenance and exhibits low wear.



Protective Device Guard with Sliding Doors



A machine housing was built for a manual lathe. The shape and appearance of the guarding needed to be adapted to the lathe. The housing was completely closed off using sheet panels to prevent chips and drilling fluid from getting into the production hall. Two separately controlled sliding doors allow easy access and operation of the machine. The sliding doors are electrically driven using timing belts.

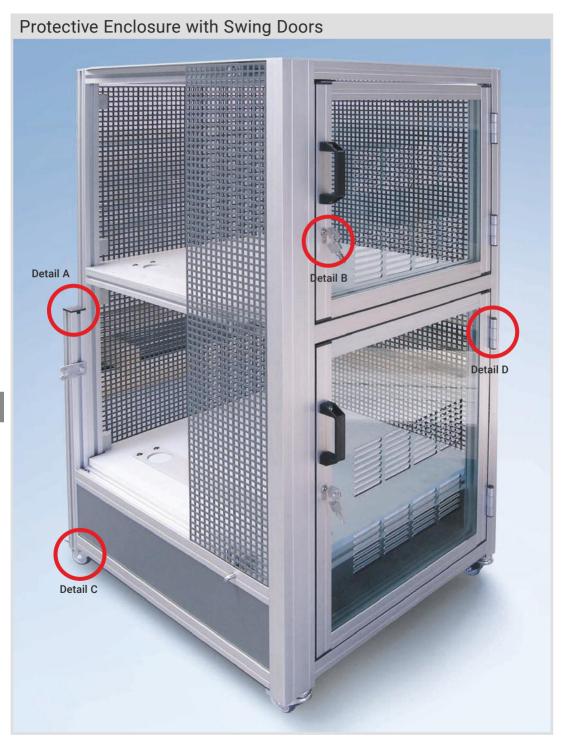


Swivel clamp connector B51.03.011

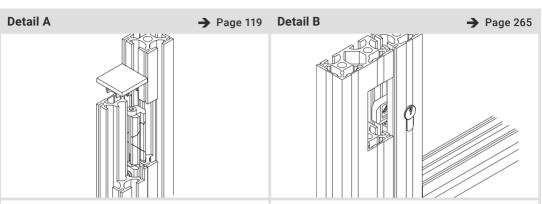
Hinge tension plugs allow the connection of mitrecut Series 40 profiles. All connection angles from 0° to 90° are possible. The connection requires a single-sided Ø 10 mm bore in both profiles on the chamfered side, 15 mm from the centre of the cut edge.

Levelling foot KB M12 B67.02.001

The levelling foot is screwed into the foot plate that matches the profile, in this case foot plate I M12 (50.02.0035). Once the height is adjusted, the foot is locked using the nut on the foot plate. The levelling foot has an adjustment range of 75 mm and a load capacity of 1,500 N. The ball joint allows for compensation of slanted surfaces.







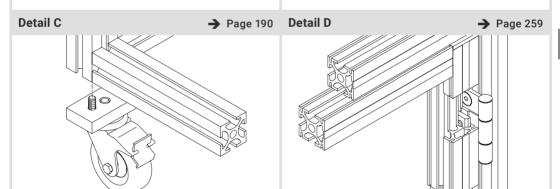
Profile connector

B51.03.017

The parallel clamping connector connects profiles in parallel without additional machining. The connector is inserted into the two opposite-facing slots and tightened using an Allen key.

Cylinder lock B68.02.051

The lock is designed for installation in the mk 2040.01 and mk 2040.40 profiles. This requires profile services 5401BC or 5440BC. Both the total length of the profile and the distance from the bottom end of the profile to the bottom edge of the lock must be specified. To install the lock, the profile cylinder is pressed through the profile opening into the swivel bolt and then secured using a screw and nut connection.



Fixed and swivel casters K106001041 and K106000141

The casters are attached in the centre of the foot plate that matches the profile (foot plate I M10 in this case) using an M10 hexagon head screw. The casters have a load capacity of 600 N. The swivel casters have a locking device.

50.02.0041 foot plate I M10

Hinge 40-1/40-7/40-1

B46.01.030

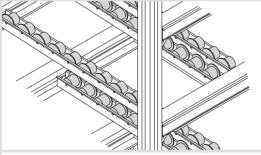
The hinge is mounted between two profiles using countersunk head screws and nuts that fit the particular profiles series. The fastening accessories you need are included in the set. The keys on the hinge leaves ensure that the components are parallel. The use of three hinge leaves means that the door cannot be unhinged and removed without removing the hinge.

Custom Industrial Workstation



To assemble components quickly and easily, fitters need to have all the necessary parts within easy reach directly at their workstation. Once a bin is empty, it is removed and another slides into place. If electric/pneumatic tools are needed to help with assembly, they can be operated using the integrated power sockets and pneumatic connections.

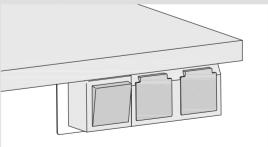
Detail A





Roller strips are mainly used in carton flow racks to reliably transport boxes. The rollers are made from a thermoplastic material that is resistant to impacts and breakage. The worker removes empty bins, and gravity causes full bins to slide into place so that the supply of materials is not interrupted.

Detail B

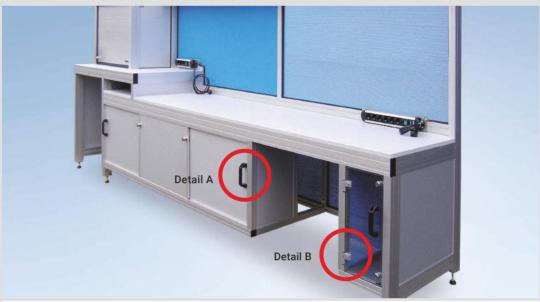


Electrical supply

Power strips supply the power needed for the electric tools used in assembly. Various sockets and switch combinations can be freely positioned along the entire working width. The unit features exceptional sturdiness and an attractive design.



Custom Industrial Workstation



Workstation built to customer specifications with custom storage options and lockable sliding doors made from Alucobond®. A special feature is the raised work area with a lockable tambour door that slides upwards, which was customised to meet the customer's specifications. Series 40 closed profiles were used to meet the customer's requirement for closed surfaces in the workstation.



Bracket handle K110000020

The handle is mounted directly on the door panelling using two M6x16 screws (D0912616) and two M6 hexagon nuts (D09346). Two Ø 6 mm bores are drilled in the panelling at a distance of 152 mm.

Hinge 40-1/40-3

B46.01.050

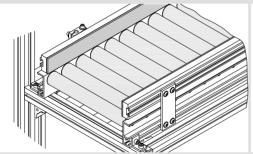
The hinge is mounted directly on the 6 mm thick Makrolon plate. A \emptyset 10 mm bore at a distance of 20 mm from the edge is required for each hinge. All necessary fastening accessories are included in the set. The key in the hinge leaf ensures that the elements are parallel.

Kanban System Workstation - for Manual Product Removal



This kanban workstation is used for picking variable assemblies. The worker removes the appropriate parts from the kanban supply system. Empty bins are placed on the lower gravity roller conveyor and conveyed back to signal the need for a refill. The frame was made from Series 40 profiles in an ergonomic design and in accordance with customer requirements.

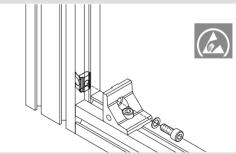
Detail A Detail B → Page 143





The picker pushes the containers along the RBS-P 2065 gravity roller conveyor past the indi-vidual parts and arranges them according to the particular assembly variant.

The supply technician removes the empty bins from the rear, fills them and then feeds them in again at the top.



Swivel-in nut 1 M8

34.16.0831

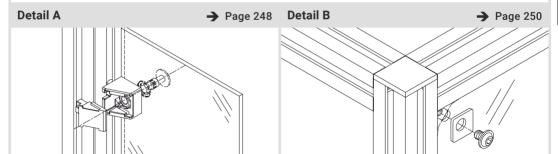
To avoid electrostatic discharge, ESD nuts were used throughout the entire system to prevent potential differences from building up. Discharge of these potentials could damage electrical components and was therefore to be avoided.



Kanban Shelf - for Manual Product Removal



Each kanban system also uses kanban shelves that do not require constant restocking. Stocking from the rear side was therefore not required. The shelf is for items that are used infrequently during the assembly process, which are best stored in this shelf with plenty of storage space.



Captive fasteners

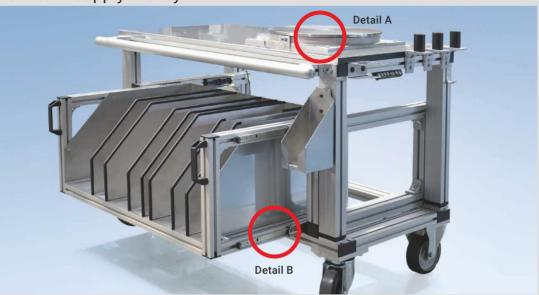
B34.01.003

The captive fasteners, together with a undercut flanged button-head screw and ribbed washer, are used to retrofit panelling into existing structures in accordance with the Machinery Directive. The panelling requires Ø 9 mm bores at a distance of 10 to 15 mm from the profile frame.

Angle fasteners

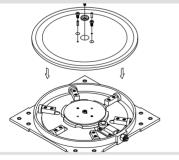
This type of fastening is suitable for sheets 1.52 mm thick. The edge bending around the sheet provides the necessary stiffness up to side lengths of 1200 mm. For lengths greater than this, an additional mk 2578 holder is required. The angles must have an M8 thread on the side. A shim (07.01.0005) is used to cover the oblong hole, and the sheets are screwed on using flanged button-head screws.

Custom Supply Trolley



Assembly and supply trolley with electrical height adjustment for assembling a drive unit. The unit is assembled on the top level. To ensure continuous assembly flows in production, the trolley can be moved to various assembly stations and docked using magnets. The trolley's lower level contains customised storage compartments, which can be slid out to allow for easier removal of the components to be assembled.

Detail A

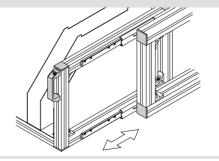


Rotary disk

B12.00.001

The rotary disk is ideally suited for the manual assembly process. Heavy loads can be quickly and easily positioned to facilitate assembly. The rotary disk has an incremental function, in this case 6 x 60°, which allows the disk to be fixed in predefined positions. It can support a maximum load of 100 kg.

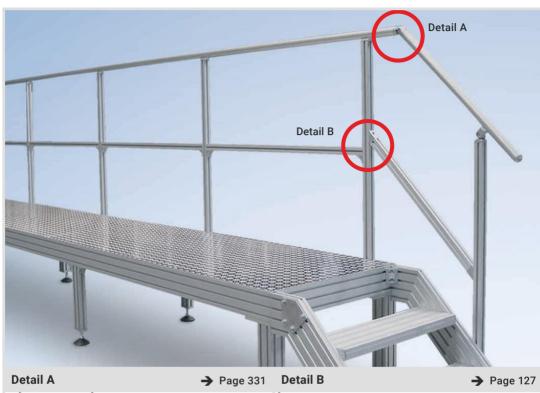
Detail B

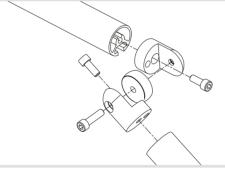


Sliding compartment

The sliding compartment runs on a ball guide, which is attached at the sides (top and bottom) and has a load capacity of 150 kg. The guide retracts automatically and locks in the closed position, and it features damping at the end positions.









Hinge 40/H2

B46.01.023

The hinge connects two mk 2040.16 profiles at any angle. First the two halves of the joint are screwed to the profiles using cylinder head screws, and then the entire assembly is assembled and locked using an additional cylinder head screw. All fastening accessories are included.

45° block

79.01.0066

The block is used to connect two profiles at an angle of 45°. The block is screwed to the face of a 40 x 40 profile and fastened to the other profile using a screw and nut connection.



System frame built from Series 25 profiles



System frame built from mk 2025.02 profiles



Fire engine interior built from Series 25 profiles





Cleanroom warehouse with storage and retrieval device and transfer stations built from mk's Series 40 cleanroom profiles



Mobile support frame built from Series 40 cleanroom profiles



Frame built from Series 40 profiles for a system that monitors plant growth

Application Examples



Flexible light-duty frame made from Series 40 profiles for desalination plant



Machine frame made from Series 50 profiles



Overhead structure built from Series 40 profiles to support supply lines for assembly workstations





Base structure built from Series 40 and Series 60 profiles



Base frame with levelling feet and holders for workpiece carriers



Custom guarding for production machine



Protective device guard with Alucobond® and polycarbonate panelling material



Scanning enclosure with double swing doors





Cabinet with swing doors and ball latches, powder-coated cover panels, table top and removable shelves



Container with double swing door, rod-locking cabinet latch and tower bolt



Custom guarding with lifting swing door operated by pneumatic springs



Guarding with welded grids (partition method) for tray transport system



Guarding with swing doors made from cleanroom profiles



Cabinet with swing doors and sliding shelves





Standard guarding (pillar-panel solution)



Manual lifting doors with counterweights in the profile, connected by cable and idler pulleys, capable of balancing



Custom protective device guard made from partitions with powder-coated perforated sheets and sliding doors with solenoid latches



Guarding for airport security areas with Alucobond® panelling



Custom guarding for pushchair test bench





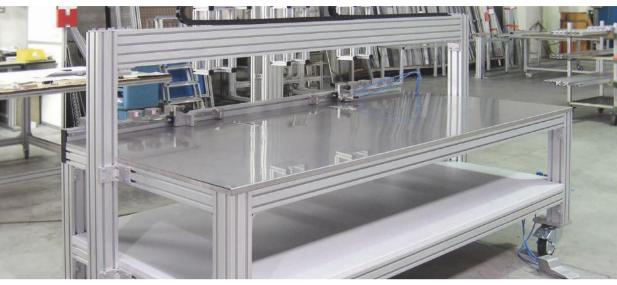
Swing door mounted in panel frame with black powder-coated welded grid



Guarding with swing door (partition method)



Telescopic guarding on casters



Custom assembly table with linear guide and pneumatic tensioning device



Assembly workstation with crank-operated manual height adjustment, 600 kg load capacity



Assembly workstation with integrated press and document holder





Workstation with hydraulic height adjustment and swivelling steel shelves with adjustable depth



Workstation with electro-hydraulic height adjustment and base cabinet



Test station made from Series 50 profiles, base cabinet with drawers and swing door, riser with steel and perforated sheet panelling



Assembly workstation with lowering mechanism based on electrically driven hydraulic cylinders



Kanban workstation for increasing productivity by decoupling assembly and supply logistics



Workbench with swing doors and swivelling device for work surface



Custom test station with 19 inch rack and monitor mount





Assembly line for pumps built from Series 50 profiles with profile slots closed using red closure strips



Rolling workbench made from Series 50 profiles with three drawers for storing tools



Workstation with protective cover and manually adjustable sliding element



Test bench for pumps with perforated sheet panelling, sliding door and keyboard shelves



Interlinked industrial workstation with integrated electrical supply and driven roller conveyor



Service and assembly units



DFT flow line for manufacturing vacuum pumps





Material supply trolleys; bins of various sizes can be hung from the open slots in the profiles



Transport trolley in which the spring-loaded floor lowers when weight is applied and rises again when the weight is removed



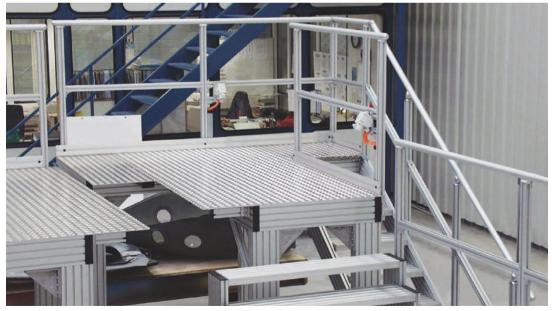
Supply trolley made from Series 40 profiles painted red



Material supply trolleys made from Series 40 cleanroom profiles with acrylic shelves



Assembly platform made from Series 40 profiles with levelling feet



Platform with Series 40 hand rails along one side of platform and stairs

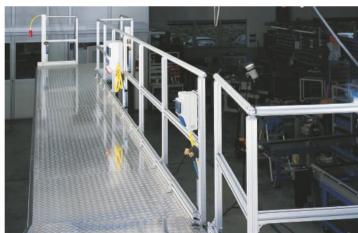




Free-standing assembly platform, 15 metres long, with high-load stairs for secure grip when carrying heavy loads



Posts connected to platform and toe kick using angles



Guardrail posts built from mk profile technology can be used to attach various components, e.g. electronics supply equipment



Free-standing assembly platform with 45° stairs



T-connector 40/H2 for hand rail



Hinge 40/H3 for the intersection between stairs and platform



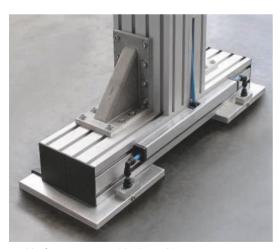
Guardrail corner with hinge 40/H2





Assembly flap in platform floor with anti-slip covering

Extremely sturdy connections consisting of die-cast angle brackets, standard angle brackets and beam profiles are available for all profile series



Platform support with air cushion transport system



Platform for performing maintenance and assembly work on helicopters safely and with ease

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^{*} See conveyor technology catalogue (CT)

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22.91.2000	Wear strip mk 1091		158	30.00.0029	Clamp 2/40		131
22.92.0035	Stop for swing doors		158	30.00.0033	Clamp 5/30		131
22.92.0035	Stop for swing doors		263	30.00.0034	Clamp 5/40		131
22.92.2000	Wear strip mk 1092		158	30.00.0035	Clamp 6/30		131
24.05.	Welded grid panel		252	30.00.0036	Clamp 6/40		131
24.06.	Welded grid panel		252	30.00.0037	Clamp 7/80		131



30.00.0117 Fence clamp 253 34.12.0018 Nut 1 ESD M5 138 131.00.0001 Angle bracket 1 90 34.14.0006 Clip (series 50) M4 144 131.00.0002 Angle bracket 2 90 34.14.0007 Clip (series 50) M5 M5 M5 M5 M5 M6 M6 M6								
31.00.0001 Angle bracket 1 90 34.14.0006 Clip (series 50) M4 143.100.0002 Angle bracket 2 90 34.14.0007 Clip (series 50) M5 143.100.0004 Angle bracket 4 90 34.14.0008 Clip (series 50) M6 143.100.0005 Angle bracket 5 90 34.16.0431 Swivel-in nut 1 M4 143.100.0007 Angle bracket 7 90 34.16.0531 Swivel-in nut 1 M5 143.100.0007 Angle bracket 14 91 34.16.0537 Swivel-in nut 1 M5 143.100.0015 Angle bracket 15 91 34.16.0537 Swivel-in nut 1 M6 143.100.0016 Angle bracket 16 91 34.16.0631 Swivel-in nut 1 M6 143.100.0016 Angle bracket 16 91 34.16.0831 Swivel-in nut 1 M6 143.100.0016 Angle bracket 16 91 34.16.0837 Swivel-in nut 1 M8 143.16.00001 Angle bracket 60/1 92 34.16.0834 Swivel-in nut 1 M8 143.16.00007 Angle bracket 60/7 92 34.16.0835 Swivel-in nut 3/25 M8 143.16.00007 Angle bracket 60/7 92 34.16.0837 Swivel-in nut 3/25 M8 143.16.00007 Angle bracket 60/7 92 34.16.0837 Swivel-in nut 1 M8 143.16.00007 Angle bracket 60/7 92 34.16.0837 Swivel-in nut 1 M8 143.16.000007 Angle bracket 60/7 92 34.16.0837 Swivel-in nut 1 M8 143.16.00007 Angle bracket 60/7 92 34.16.0837 Swivel-in nut 1 M8 143.16.00007 Angle bracket 60/7 92 34.16.0837 Swivel-in nut 1 M8 143.16.00007 Angle bracket 60/7 92 34.16.0837 Swivel-in nut 1 M8 143.16.00007 Angle bracket 60/7 92 34.16.0837 Swivel-in nut 1 M8 143.16.00007 Angle bracket 60/7 92 34.16.0837 Swivel-in nut 1 Angle 143.16.00007 Angle bracket 60/7 92 34.16.0835 Swivel-in nut 1 Angle 143.16.00007 Angle bracket 60/7 92 34.16.0837 Swivel-in nut 1 Angle 143.16.00007 Angle bracket 60/7 92 34.16.0835 Swivel-in nut 1 Angle 143.16.00007 Angle bracket 60/7 92 34.16.0835 Swivel-in nut 1 Angle 143.16.00007 Angle bracket 60/7 92 34.16.0835 Swivel-in nut 1 Angle 143.16.00007 Angle bracket 60/7 92 34.16.0835	30.00.0048	Clamp 40/25		130	34.12.0004	Nut 1 VA	M5	138
31.00.0002 Angle bracket 2 90 34.14.0007 Clip (series 50) M5 142 31.00.0004 Angle bracket 4 90 34.14.0008 Clip (series 50) M6 142 31.00.0005 Angle bracket 5 90 34.16.0431 Swivel-in nut 1 M5 143 31.00.0014 Angle bracket 14 91 34.16.0531 Swivel-in nut 1 M5 143 31.00.0015 Angle bracket 15 91 34.16.0631 Swivel-in nut 1 M6 143 31.00.0016 Angle bracket 16/40 89 34.16.0831 Swivel-in nut 1 M6 143 31.60.0001 Angle bracket 16/40 89 34.16.0831 Swivel-in nut 2/40 M8 143 31.60.0007 Angle bracket 60/7 92 34.16.0835 Swivel-in nut 3/25 M8 143 34.01.0001 Nut 1 M8 138 34.60.0835 Swivel-in nut 1 M8 143 34.01.0001 Nut 2/50 M8 139 34.60.0101 Nut 1 M8 143 <td>30.00.0117</td> <td>Fence clamp</td> <td></td> <td>253</td> <td>34.12.0018</td> <td>Nut 1 ESD</td> <td>M5</td> <td>138</td>	30.00.0117	Fence clamp		253	34.12.0018	Nut 1 ESD	M5	138
31.00.0004 Angle bracket 4 90 34.14.0008 Clip (series 50) M6 14.2	31.00.0001	Angle bracket 1		90	34.14.0006	Clip (series 50)	M4	142
31.00.0005 Angle bracket 5 90 34.16.0431 Swivel-in nut 1 M4 14.3 31.00.0007 Angle bracket 7 90 34.16.0531 Swivel-in nut 1 M5 14.3 31.00.0014 Angle bracket 14 91 34.16.0537 Swivel-in nut 1 M5 14.3 31.00.0016 Angle bracket 16 91 34.16.0631 Swivel-in nut 1 M6 14.3 31.00.0016 Angle bracket 16/40 89 34.16.0837 Swivel-in nut 1 M8 14.3 31.60.0001 Angle bracket 60/7 92 34.16.0834 Swivel-in nut 3/25 M8 14.3 34.01.0001 Nut 1 M8 138 34.16.0837 Swivel-in nut 3/25 M8 14.3 34.01.0002 Nut 2/25 M8 139 34.60.0837 Swivel-in nut 1 M8 14.4 34.01.0002 Nut 2/25 M8 139 34.60.0837 Swivel-in nut 1 M8 14.4 34.01.0002 Nut 2/25 M8 139 34.60.0837 Swivel-in nut 1 <td>31.00.0002</td> <td>Angle bracket 2</td> <td></td> <td>90</td> <td>34.14.0007</td> <td>Clip (series 50)</td> <td>M5</td> <td>142</td>	31.00.0002	Angle bracket 2		90	34.14.0007	Clip (series 50)	M5	142
31.00.0007 Angle bracket 7 90 34.16.0531 Swivel-in nut 1 M5 143 143 143 145	31.00.0004	Angle bracket 4		90	34.14.0008	Clip (series 50)	М6	142
31.00.0014 Angle bracket 14 91 34.16.0537 Swivel-in nut 1 M5 143 31.00.0015 Angle bracket 15 91 34.16.0631 Swivel-in nut 1 M6 143 31.00.0016 Angle bracket 16 91 34.16.0637 Swivel-in nut 1 M6 143 31.40.0016 Angle bracket 16/40 89 34.16.0831 Swivel-in nut 1 M8 143 31.60.0001 Angle bracket 60/7 92 34.16.0835 Swivel-in nut 3/25 M8 143 34.01.0001 Nut 1 M8 138 34.16.0837 Swivel-in nut 1 M8 143 34.01.0002 Nut 2/25 M8 139 34.60.0101 Nut 1 M8 143 34.01.0003 Nut 2/50 M8 139 34.60.0201 Nut 1 M10 144 34.01.0004 Nut 3/25 M8 139 34.60.0201 Nut 1 M10 144 34.01.0006 Nut 3/50 M8 139 34.60.0205 Nut 3/60 M10 <	31.00.0005	Angle bracket 5		90	34.16.0431	Swivel-in nut 1	M4	143
31.00.0015	31.00.0007	Angle bracket 7		90	34.16.0531	Swivel-in nut 1	M5	143
31.00.0016 Angle bracket 16 91 34.16.0637 Swivel-in nut 1 M6 143.140.0016 31.40.0016 Angle bracket 16/40 89 34.16.0831 Swivel-in nut 1 M8 143.140.0016 31.60.0007 Angle bracket 60/7 92 34.16.0835 Swivel-in nut 3/25 M8 143.140.0002 34.01.0001 Nut 1 M8 138 34.16.0837 Swivel-in nut 1 M8 143.34.01.0002 34.01.0002 Nut 2/25 M8 139 34.60.0101 Nut 1 M8 144.34.01.0003 Nut 2/50 M8 139 34.60.0201 Nut 1 M10 144.34.01.0004 Nut 3/25 M8 139 34.60.0203 Nut 2/60 M10 144.34.01.0006 M10 144.34.01.0006 M10 144.34.01.0006 Nut 3/50 M8 139 34.60.0203 Nut 2/60 M10 144.34.01.0006 Nut 3/50 M8 139 34.60.0303 Nut 2/60 M12 144.34.01.0006 M12 144.34.01.0006 M12 144.34.01.0006 M12 144.34.01.0006 <td< td=""><td>31.00.0014</td><td>Angle bracket 14</td><td></td><td>91</td><td>34.16.0537</td><td>Swivel-in nut 1</td><td>M5</td><td>143</td></td<>	31.00.0014	Angle bracket 14		91	34.16.0537	Swivel-in nut 1	M5	143
31.40.0016 Angle bracket 16/40 89 34.16.0831 Swivel-in nut 1 M8 143.160.0001 31.60.0007 Angle bracket 60/7 92 34.16.0835 Swivel-in nut 2/40 M8 143.31.60.0007 34.01.0001 Nut 1 M8 138 34.16.0837 Swivel-in nut 1 M8 143.34.01.0002 34.01.0002 Nut 2/25 M8 139 34.60.0101 Nut 1 M8 144.34.01.0003 34.01.0004 Nut 3/25 M8 139 34.60.0201 Nut 1 M10 144.01.0004 34.01.0005 Nut 3/25 M8 139 34.60.0203 Nut 2/60 M10 144.01.0006 34.01.0005 Nut 3/50 M8 139 34.60.0205 Nut 3/60 M10 144.01.0006 34.01.0011 Nut 2/35 M8 139 34.60.0301 Nut 1 M12 144.01.0006 34.01.0011 Nut 2/35 M8 139 34.60.0301 Nut 1 M12 144.01.0006 34.01.0011 Nut 1 ESD M8	31.00.0015	Angle bracket 15		91	34.16.0631	Swivel-in nut 1	М6	143
31.60.0001 Angle bracket 60/1 92 34.16.0834 Swivel-in nut 2/40 M8 143 31.60.0007 Angle bracket 60/7 92 34.16.0835 Swivel-in nut 3/25 M8 143 34.01.0001 Nut 1 M8 138 34.16.0837 Swivel-in nut 1 M8 143 34.01.0002 Nut 2/25 M8 139 34.60.0101 Nut 1 M8 144 34.01.0003 Nut 2/50 M8 139 34.60.0201 Nut 1 M10 144 34.01.0004 Nut 3/25 M8 139 34.60.0203 Nut 2/60 M10 144 34.01.0005 Nut 2/75 M8 139 34.60.0301 Nut 1 M12 144 34.01.0007 Nut 4/50 M8 139 34.60.0303 Nut 2/60 M12 144 34.01.0011 Nut 2/35 M8 139 34.60.0305 Nut 3/60 M12 144 34.01.0018 Nut 1 ESD M8 139 34.60.0301 Nut 1 VA	31.00.0016	Angle bracket 16		91	34.16.0637	Swivel-in nut 1	M6	143
31.60.0007 Angle bracket 60/7 92 34.16.0835 Swivel-in nut 3/25 M8 143 34.01.0001 Nut 1 M8 138 34.16.0837 Swivel-in nut 1 M8 143 34.01.0002 Nut 2/25 M8 139 34.60.0101 Nut 1 M8 144 34.01.0003 Nut 2/50 M8 139 34.60.0201 Nut 1 M10 144 34.01.0004 Nut 3/25 M8 139 34.60.0203 Nut 2/60 M10 144 34.01.0005 Nut 3/50 M8 139 34.60.0205 Nut 3/60 M10 144 34.01.0007 Nut 4/50 M8 139 34.60.0303 Nut 2/60 M12 144 34.01.0011 Nut 2/35 M8 139 34.60.0303 Nut 2/60 M12 144 34.01.001 Nut 2/35 M8 139 34.60.0305 Nut 3/60 M12 144 34.01.001 Nut 2/35 M8 139 34.60.0305 Nut 3/60 M12 144 34.01.001 Nut 2/40 M8 139	31.40.0016	Angle bracket 16/40		89	34.16.0831	Swivel-in nut 1	M8	143
34.01.0001 Nut 1 M8 138 34.16.0837 Swivel-in nut 1 M8 143 34.01.0002 Nut 2/25 M8 139 34.60.0101 Nut 1 M8 144 34.01.0003 Nut 2/50 M8 139 34.60.0201 Nut 1 M10 146 34.01.0004 Nut 3/25 M8 139 34.60.0203 Nut 2/60 M10 146 34.01.0005 Nut 2/75 M8 139 34.60.0205 Nut 3/60 M10 146 34.01.0006 Nut 3/50 M8 139 34.60.0301 Nut 1 M12 146 34.01.0011 Nut 2/35 M8 139 34.60.0303 Nut 2/60 M12 146 34.01.0011 Nut 2/45 M8 139 34.60.0305 Nut 3/60 M12 146 34.01.0018 Nut 1 ESD M8 139 34.60.1101 Slot nut M8 143 34.01.0022 Nut 3/40 M8 139 34.60.1201 Slot nut	31.60.0001	Angle bracket 60/1		92	34.16.0834	Swivel-in nut 2/40	M8	143
34.01.0002 Nut 2/25 M8 139 34.60.0101 Nut 1 M8 144 34.01.0003 Nut 2/50 M8 139 34.60.0201 Nut 1 M10 144 34.01.0004 Nut 3/25 M8 139 34.60.0203 Nut 2/60 M10 144 34.01.0005 Nut 3/50 M8 139 34.60.0301 Nut 1 M12 144 34.01.0007 Nut 4/50 M8 139 34.60.0303 Nut 2/60 M12 144 34.01.0011 Nut 2/35 M8 139 34.60.0305 Nut 3/60 M12 144 34.01.0018 Nut 1 ESD M8 138 34.60.0321 Nut 1 VA M12 144 34.01.0019 Nut 2/40 M8 139 34.60.1101 Slot nut M8 142 34.01.0022 Nut 3/40 M8 139 34.60.1201 Slot nut M10 144 34.01.0050 Nut 1 VA M8 139 34.60.2001 T-slot nut 1	31.60.0007	Angle bracket 60/7		92	34.16.0835	Swivel-in nut 3/25	M8	143
34.01.0003 Nut 2/50 M8 139 34.60.0201 Nut 1 M10 144 34.01.0004 Nut 3/25 M8 139 34.60.0203 Nut 2/60 M10 144 34.01.0005 Nut 2/75 M8 139 34.60.0205 Nut 3/60 M10 144 34.01.0006 Nut 3/50 M8 139 34.60.0301 Nut 1 M12 144 34.01.0007 Nut 4/50 M8 139 34.60.0303 Nut 2/60 M12 144 34.01.0011 Nut 2/35 M8 139 34.60.0305 Nut 3/60 M12 144 34.01.0018 Nut 1 ESD M8 138 34.60.0321 Nut 1 VA M12 144 34.01.0019 Nut 2/40 M8 139 34.60.1101 Slot nut M8 142 34.01.0022 Nut 3/40 M8 139 34.60.1201 Slot nut M10 144 34.01.0050 Nut 1 VA M8 139 34.60.2001 T-slot nut 1 <td>34.01.0001</td> <td>Nut 1</td> <td>M8</td> <td>138</td> <td>34.16.0837</td> <td>Swivel-in nut 1</td> <td>M8</td> <td>143</td>	34.01.0001	Nut 1	M8	138	34.16.0837	Swivel-in nut 1	M8	143
34.01.0004 Nut 3/25 M8 139 34.60.0203 Nut 2/60 M10 144 34.01.0005 Nut 2/75 M8 139 34.60.0205 Nut 3/60 M10 144 34.01.0006 Nut 3/50 M8 139 34.60.0301 Nut 1 M12 144 34.01.0007 Nut 4/50 M8 139 34.60.0303 Nut 2/60 M12 144 34.01.0011 Nut 2/35 M8 139 34.60.0305 Nut 3/60 M12 144 34.01.0018 Nut 1 ESD M8 138 34.60.03021 Nut 1 VA M12 144 34.01.0019 Nut 2/40 M8 139 34.60.1101 Slot nut M8 142 34.01.0022 Nut 3/40 M8 139 34.60.1201 Slot nut M10 142 34.01.0024 Nut 1 VA M8 139 34.60.2001 T-slot nut 1 142 34.01.0050 Nut 1 ESD M8 139 34.60.2001 T-slot nut 1 <t< td=""><td>34.01.0002</td><td>Nut 2/25</td><td>M8</td><td>139</td><td>34.60.0101</td><td>Nut 1</td><td>M8</td><td>140</td></t<>	34.01.0002	Nut 2/25	M8	139	34.60.0101	Nut 1	M8	140
34.01.0005 Nut 2/75 M8 139 34.60.0205 Nut 3/60 M10 144 34.01.0006 Nut 3/50 M8 139 34.60.0301 Nut 1 M12 144 34.01.0007 Nut 4/50 M8 139 34.60.0303 Nut 2/60 M12 144 34.01.0011 Nut 2/35 M8 139 34.60.0305 Nut 3/60 M12 144 34.01.0018 Nut 1 ESD M8 138 34.60.0321 Nut 1 VA M12 144 34.01.0019 Nut 2/40 M8 139 34.60.1101 Slot nut M8 142 34.01.0022 Nut 3/40 M8 139 34.60.1201 Slot nut M10 144 34.01.0024 Nut 1 VA M8 138 34.60.2001 T-slot nut M12 144 34.01.0050 Nut 1 ESD M8 139 34.60.2101 T-slot nut 1 144 34.02.0008 Nut 1 M6 138 3855BF0200 Profile 3855	34.01.0003	Nut 2/50	M8	139	34.60.0201	Nut 1	M10	140
34.01.0006 Nut 3/50 M8 139 34.60.0301 Nut 1 M12 140 34.01.0007 Nut 4/50 M8 139 34.60.0303 Nut 2/60 M12 140 34.01.0011 Nut 2/35 M8 139 34.60.0305 Nut 3/60 M12 140 34.01.0018 Nut 1 ESD M8 138 34.60.0321 Nut 1 VA M12 140 34.01.0019 Nut 2/40 M8 139 34.60.1101 Slot nut M8 142 34.01.0022 Nut 3/40 M8 139 34.60.1201 Slot nut M10 142 34.01.0024 Nut 1 VA M8 138 34.60.2001 T-slot nut M12 142 34.01.0050 Nut 1 ESD M8 139 34.60.2001 T-slot nut 1 142 34.02.0008 Nut 1 M8 139 34.60.2101 T-slot nut 1 144 34.02.0010 Nut 2/25 M6 139 3856BD0200 Profile 3855 100 34.02.0012 Nut 1 VA M6 138 3860BD0200 Profile 38	34.01.0004	Nut 3/25	M8	139	34.60.0203	Nut 2/60	M10	140
34.01.0007 Nut 4/50 M8 139 34.60.0303 Nut 2/60 M12 140 34.01.0011 Nut 2/35 M8 139 34.60.0305 Nut 3/60 M12 140 34.01.0018 Nut 1 ESD M8 138 34.60.0321 Nut 1 VA M12 140 34.01.0019 Nut 2/40 M8 139 34.60.1101 Slot nut M8 142 34.01.0022 Nut 3/40 M8 139 34.60.1201 Slot nut M10 142 34.01.0024 Nut 1 VA M8 139 34.60.1301 Slot nut M12 142 34.01.0050 Nut 1 ESD M8 139 34.60.2001 T-slot nut 1 147 34.02.0008 Nut 1 M8 139 34.60.2101 T-slot nut 1 147 34.02.0010 Nut 2/25 M6 138 3855BF0200 Profile 3855 100 34.02.0012 Nut 1 VA M6 138 3860BD0200 Profile 3860 104	34.01.0005	Nut 2/75	M8	139	34.60.0205	Nut 3/60	M10	140
34.01.0011 Nut 2/35 M8 139 34.60.0305 Nut 3/60 M12 140 34.01.0018 Nut 1 ESD M8 138 34.60.0321 Nut 1 VA M12 140 34.01.0019 Nut 2/40 M8 139 34.60.1101 Slot nut M8 142 34.01.0022 Nut 3/40 M8 139 34.60.1201 Slot nut M10 142 34.01.0024 Nut 1 VA M8 138 34.60.1301 Slot nut M12 142 34.01.0050 Nut 1 ESD M8 139 34.60.2001 T-slot nut 1 142 34.01.0051 Nut 1 M8 139 34.60.2101 T-slot nut 1 142 34.02.0008 Nut 1 M6 138 3855BF0200 Profile 3855 100 34.02.0010 Nut 2/25 M6 139 3856BD0200 Profile 3860 104 34.02.0012 Nut 1 VA M6 138 3861BD0200 Profile 3861 104 34.02.0018 <td>34.01.0006</td> <td>Nut 3/50</td> <td>M8</td> <td>139</td> <td>34.60.0301</td> <td>Nut 1</td> <td>M12</td> <td>140</td>	34.01.0006	Nut 3/50	M8	139	34.60.0301	Nut 1	M12	140
34.01.0018 Nut 1 ESD M8 138 34.60.0321 Nut 1 VA M12 140 34.01.0019 Nut 2/40 M8 139 34.60.1101 Slot nut M8 142 34.01.0022 Nut 3/40 M8 139 34.60.1201 Slot nut M10 142 34.01.0024 Nut 1 VA M8 138 34.60.1301 Slot nut M12 142 34.01.0050 Nut 1 ESD M8 139 34.60.2001 T-slot nut 1 147 34.01.0051 Nut 1 M8 139 34.60.2101 T-slot nut 1 147 34.02.0008 Nut 1 M6 138 3855BF0200 Profile 3855 107 34.02.0010 Nut 2/25 M6 139 3856BD0200 Profile 3856 107 34.02.0012 Nut 1 VA M6 138 3861BD0200 Profile 3860 104 34.02.0018 Nut 1 ESD M6 139 30.02.0001 Foot plate C M16 177 34.02.00	34.01.0007	Nut 4/50	M8	139	34.60.0303	Nut 2/60	M12	140
34.01.0019 Nut 2/40 M8 139 34.60.1101 Slot nut M8 142 34.01.0022 Nut 3/40 M8 139 34.60.1201 Slot nut M10 142 34.01.0024 Nut 1 VA M8 138 34.60.1301 Slot nut M12 142 34.01.0050 Nut 1 ESD M8 139 34.60.2001 T-slot nut 1 142 34.02.0051 Nut 1 M8 139 34.60.2101 T-slot nut 1 142 34.02.0008 Nut 1 M6 138 3855BF0200 Profile 3855 107 34.02.0010 Nut 2/25 M6 139 3856BD0200 Profile 3860 104 34.02.0012 Nut 1 VA M6 138 3861BD0200 Profile 3861 104 34.02.0018 Nut 1 ESD M6 139 30.02.0001 Foot plate C M16 177 34.02.0051 Nut 1 M6 139 50.02.0002 Foot plate C M20 177 34.03.00	34.01.0011	Nut 2/35	M8	139	34.60.0305	Nut 3/60	M12	140
34.01.0022 Nut 3/40 M8 139 34.60.1201 Slot nut M10 142 34.01.0024 Nut 1 VA M8 138 34.60.1301 Slot nut M12 142 34.01.0050 Nut 1 ESD M8 139 34.60.2001 T-slot nut 1 142 34.01.0051 Nut 1 M8 139 34.60.2101 T-slot nut 1 144 34.02.0008 Nut 1 M6 138 3855BF0200 Profile 3855 107 34.02.0010 Nut 2/25 M6 139 3856BD0200 Profile 3856 107 34.02.0012 Nut 1 VA M6 138 3860BD0200 Profile 3860 104 34.02.0018 Nut 1 ESD M6 138 3861BD0200 Profile 3861 104 34.02.0050 Nut 1 ESD M6 139 50.02.0001 Foot plate C M16 177 34.03.0002 Slot nut M8 142 50.02.0003 Foot plate B M16 177 34.04.0003	34.01.0018	Nut 1 ESD	M8	138	34.60.0321	Nut 1 VA	M12	140
34.01.0024 Nut 1 VA M8 138 34.60.1301 Slot nut M12 142 34.01.0050 Nut 1 ESD M8 139 34.60.2001 T-slot nut 1 147 34.01.0051 Nut 1 M8 139 34.60.2101 T-slot nut 1 147 34.02.0008 Nut 1 M6 138 3855BF0200 Profile 3855 107 34.02.0010 Nut 2/25 M6 139 3856BD0200 Profile 3856 107 34.02.0012 Nut 1 VA M6 138 3860BD0200 Profile 3860 104 34.02.0018 Nut 1 ESD M6 138 3861BD0200 Profile 3861 104 34.02.0050 Nut 1 ESD M6 139 50.02.0001 Foot plate C M16 177 34.02.0051 Nut 1 M6 139 50.02.0002 Foot plate C M20 177 34.03.0002 Slot nut M8 142 50.02.0004 Foot plate B M16 177 34.04.0003	34.01.0019	Nut 2/40	M8	139	34.60.1101	Slot nut	M8	142
34.01.0050 Nut 1 ESD M8 139 34.60.2001 T-slot nut 1 14' 34.01.0051 Nut 1 M8 139 34.60.2101 T-slot nut 1 14' 34.02.0008 Nut 1 M6 138 3855BF0200 Profile 3855 10' 34.02.0010 Nut 2/25 M6 139 3856BD0200 Profile 3856 10' 34.02.0012 Nut 1 VA M6 138 3860BD0200 Profile 3860 10' 34.02.0018 Nut 1 ESD M6 138 3861BD0200 Profile 3861 10' 34.02.0050 Nut 1 ESD M6 139 50.02.0001 Foot plate C M16 17' 34.02.0051 Nut 1 M6 139 50.02.0002 Foot plate C M20 17' 34.03.0002 Slot nut M8 142 50.02.0003 Foot plate B M16 17' 34.04.0003 Slot nut M6 142 50.02.0004 Foot plate B M20 17'	34.01.0022	Nut 3/40	M8	139	34.60.1201	Slot nut	M10	142
34.01.0051 Nut 1 M8 139 34.60.2101 T-slot nut 1 14 34.02.0008 Nut 1 M6 138 3855BF0200 Profile 3855 10 34.02.0010 Nut 2/25 M6 139 3856BD0200 Profile 3856 10 34.02.0012 Nut 1 VA M6 138 3860BD0200 Profile 3860 10 34.02.0018 Nut 1 ESD M6 138 3861BD0200 Profile 3861 10 34.02.0050 Nut 1 ESD M6 139 50.02.0001 Foot plate C M16 17 34.02.0051 Nut 1 M6 139 50.02.0002 Foot plate C M20 17 34.03.0002 Slot nut M8 142 50.02.0003 Foot plate B M16 17 34.04.0003 Slot nut M6 142 50.02.0004 Foot plate B M20 17	34.01.0024	Nut 1 VA	M8	138	34.60.1301	Slot nut	M12	142
34.02.0008 Nut 1 M6 138 3855BF0200 Profile 3855 10° 34.02.0010 Nut 2/25 M6 139 3856BD0200 Profile 3856 10° 34.02.0012 Nut 1 VA M6 138 3860BD0200 Profile 3860 10° 34.02.0018 Nut 1 ESD M6 138 3861BD0200 Profile 3861 10° 34.02.0050 Nut 1 ESD M6 139 50.02.0001 Foot plate C M16 17° 34.02.0051 Nut 1 M6 139 50.02.0002 Foot plate C M20 17° 34.03.0002 Slot nut M8 142 50.02.0003 Foot plate B M16 17° 34.04.0003 Slot nut M6 142 50.02.0004 Foot plate B M20 17°	34.01.0050	Nut 1 ESD	M8	139	34.60.2001	T-slot nut 1		141
34.02.0010 Nut 2/25 M6 139 3856BD0200 Profile 3856 100 34.02.0012 Nut 1 VA M6 138 3860BD0200 Profile 3860 104 34.02.0018 Nut 1 ESD M6 138 3861BD0200 Profile 3861 104 34.02.0050 Nut 1 ESD M6 139 50.02.0001 Foot plate C M16 177 34.02.0051 Nut 1 M6 139 50.02.0002 Foot plate C M20 177 34.03.0002 Slot nut M8 142 50.02.0003 Foot plate B M16 177 34.04.0003 Slot nut M6 142 50.02.0004 Foot plate B M20 177	34.01.0051	Nut 1	M8	139	34.60.2101	T-slot nut 1		141
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mk 3036	Cover profile, grey		155	T82.07.0040	Angle D25s assembly kit	86
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