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MINITEC PRODUCT LINE



ENGLISH



PROFILE SYSTEM

MINITEC PROFILE SYSTEM

part no. 95.3010/2

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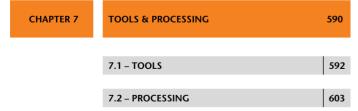
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MINITEC THE ART OF SIMPLICITY



THE COMPANY

MiniTec offers over 25 years of innovation. From modules to tailor-made all-round solutions. What began in 1986 with miniature linear guides has developed into a full service provider recognised all over the world, with more than 240 employees in 10 plants, over 60 partners and service bases worldwide and locations in Germany, France, Great Britain, Switzerland, Slovenia, Slovakia, Spain and the USA.

MODULAR CONSTRUCTION SYSTEM

Our modular system and our linear technology have a modular design on the same principle. With passion our designers and engineers pursue the principles that characterize all MiniTec products: maximum simplicity, no editing, unlimited applications with few components and complete compatibility. Our constant endeavor is to avoid meaningless product diversity.

Quick installation, avoiding of processing and reduction of inventory costs have highest priority. We also pay special attention to the ergonomic design of our components. Leading organizations worldwide use our components with success for work or automation equipment and for plant engineering and construction. In collaboration with leading research institutions, the system is constantly evolving with the latest requirements. Our customers benefit from our intensive

cooperation in scientific projects such as Smart Factory and the latest developments in workplace design. Pioneering research results therefor flow back early in our development process.

EXTENSIVE SERVICE

From the Profile System our engineers develop complete solutions for all industry sectors. Our customers benefit from the experience of our engineers. We guarantee quality and shortest delivery time by provision and continuous development of all skills in our house. Expert teams for problem analysis, development and design, electrical design, cabinet construction, installation and commissioning ensure economi and technically sophisticated solutions for every task of our clients. From resources about workplace design with conveyor systems to a complete production line. Everything from a single source, without interfaces.

QUALITY

To meet the demands of linear technology precision and exceed quality expectations, we invest in the latest machines and newest technologies and manufacturing techniques. Our quality management has been certified since 1996 according DIN EN ISO 9001:2008.

ENVIRONMENTAL PROTECTION

Our company mission stresses an active role in environmental protection and the conservation of our natural resources. As an example we locate our service partners in close proximity to our customers to avoid long transits.Our environment management system is certified according: DIN EN ISO 14001:2009.



HEALTH AND SAFETY

Since 2006, MiniTec was certified in occupational health and safety assesment series with OHSAS 18001.

CORPORATE RESPONSIBILITY

MiniTec is aware of its social responsibility. Knowing this, we create quality jobs at our locations, allowing young people a future-oriented education and offer all employees opportunities for training and advancement. We are deliberately focusing on skilled employees over 50, providing a diverse age and experience structure of our workforce.

SECURE PROCESSES

Our organization meets the strict criteria of the customs authorities and is certified to AEOC 115,021th As AEO, our customers benefit from related customs simplifications.

CAD-SUPPORT

On our website www.minitec.de 3D CAD data are available for all components to download. Moreover, our CAD tool iCADassembler contains a volltändigen e-catalog with CAD data.

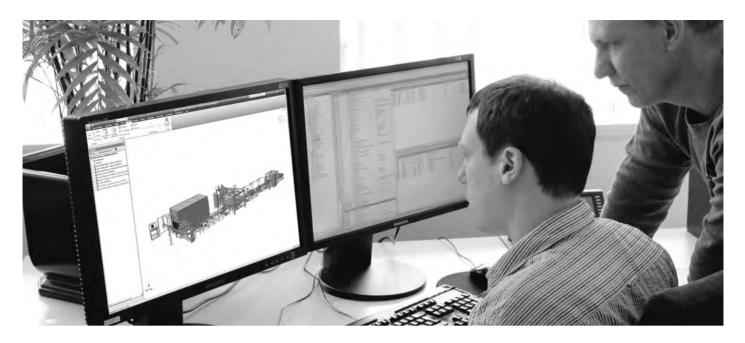


Our Quality, Environmental and Safety Policy applies to all plants..



Customs Simplifications

MINITEC iCADassembler



Our CAD tools are the logical complement to the hardware of our modular construction system. All requirements of planning

and execution are comprehensively considered.

The combination of components and software opens up the full potential for efficient, flexible, and modern engineering. iCADassembler is a CAD tool of the latest generation we offer our customers free of charge.

Take advantage of the functionality of iCADassembler!

ADVANTAGES

- System independent 3D design tool for MiniTec components
- Time savings for the user of about 60 percent
- Planning and design of components and systems regardless of CAD software
- CAD functionality without own CAD software
- Easy operation with special anchor line snaps and drag&drop
- Direct interfaces to all major CAD systems such as Mechanical Desktop, ProEngineer, SolidWorks, Solid Edge, MegaCAD many others.

By popular demand MiniTec offers regular training for iCADassembler.In one-day seminars we teach the features of this powerful tools with practical exercises. The tool include electronic catalogs, automatic part lists and configurators for common applications such as ergonomic workstations, linear axis, belt conveyors, roller conveyors or protective devices.

With iCADassembler construction time is reduced by at least 60% while avoiding mistakes.

- More than 180 data output formats in 2D and 3D
- Automated construction module for: linear axis, skids, conveyors, jobs
- Automatic parts lists
- Integrated plausibility check
- Automatic processing drawings

The courses are led by our experienced technicians and take place at individually agreed dates.

ALUMINIUM PROFILE

MATERIAL

EN-AW-6063 T66
2.75 g / cm ³
3.3206.72 (artificially aged)
min. Rm = 245 N / mm ²
min. R _{p 0,2} = 200 N / mm ²
> 10%
> 8%
E: 70000 N / mm ²
G: 27000 N / mm ²
ca. 75 HB 2.5 / 187.5
23.8 · 10-6 K ⁻¹

SURFACE

Eloxal E6/EV1, natur anodized		
Layer thickness ca. 10 µm		
Layer hardness 250 - 350 HV		

TOLERANCES

	DIN EN 12020 T 1 + 2
Outer dimensions	0.2 bis 0.4 mm
Straightness deviation	max. 1.5 mm / 2 m
Flatness deviation	max. 1.5 mm / 2 m

Generally we confirm half the values according to the tolerances of DIN EN 12020 part 2.

PROFII	LE S	ERI	ES/
BASIC	GR	ID	

Profile series	MINI	30	45
Core boring	4.5 ±0.15	7.5 - 0.3	
Standard thread	ndard thread M5 M8		18

All profiles of the individual profile series are developed from the same grid. The tread grooves are uniform. All profiles can be combined with each other.

The M8 thread is formed with non-cutting thread formers. It can be drilled up to M12. The M5 thread is shaped automatically by screwing in a screw.

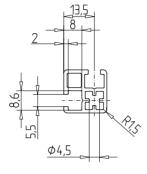
VA-PROFILES

MATERIAL			
MATERIAL	X5 Cr Ni 18-10	stainless steel, DIN EN 10 088	
	Spezifisches Gewicht	7.9 g / cm ³	
	Material-N°	1.4301 (kalt gewalzt)	
	Tenacity	min. R _m = 540 N / mm ²	
	(pressing direction)		
	0,2 % twist boundary	min. R _{p0,2} = 230 N / mm ²	
	Ductile yield	> 35%	
	Modulus of elasticity	E: 200 000 N / mm ²	
	Shear modulus	G: 80 000 N / mm ²	
	Brinell hardness	220 - 260 HV	
	thermal expansion	11.5 · 10 ⁻⁶ mm/°K	
SURFACE	have		
	bare		
TOLERANCES	DIN ISO 2768 - c		
	Outer dimensions	± 0,3 mm	
	Straightness deviation	0.001 x L	
	Straightness deviation	0.001 X L	
CORE BORING	uniform 7.5 - 0.6 mm		
	Thread M8 is made with a tap.		
GRID	Basic grid 45 mm		
	Due to its identical groove the profile 45 x 45 VA is fully		
	compatible with the aluminum profile system.		

PROFILE SERIES MINI

GROOVES A system for profiles 11 to 19 mm. The grooves are identical for all profiles. Groove width: 5.4 + 0.3 mm.

BASIC DIMENSIONS



LOAD CAPACITY





F = 1000 N

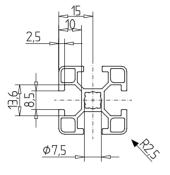
USABLE SCREWS AND NUTS



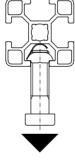
PROFILE SERIES 30

GROOVES A system for profiles 16 to 60 mm. The grooves are identical for all profiles. Groove width: 5.6 - 0.3 mm.

BASIC DIMENSIONS

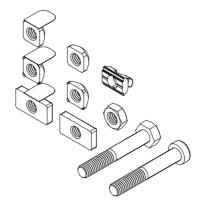


LOAD CAPACITY



F = 2600 N

USABLE SCREWS AND NUTS

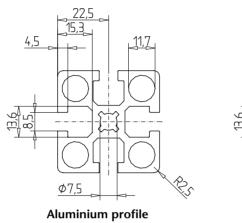


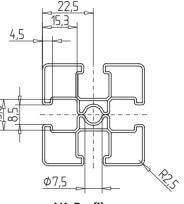
PROFILE SERIES 45

GROOVES

A system for profiles 19-270 mm. All grooves are uniform. Groove width: 8.5 to 0.3 mm. The grooves are designed to accommodate DIN-head screws M8 with 13 mm diameter and nuts with outside dimension 13 mm. Square and hexagonal nuts and screws are secured against rotation.

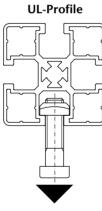
BASIC DIMENSIONS





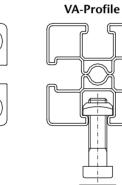
VA-Profile

LOAD CAPACITY





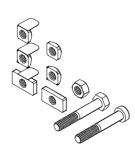


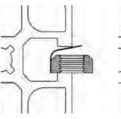






USABLE SCREWS AND NUTS

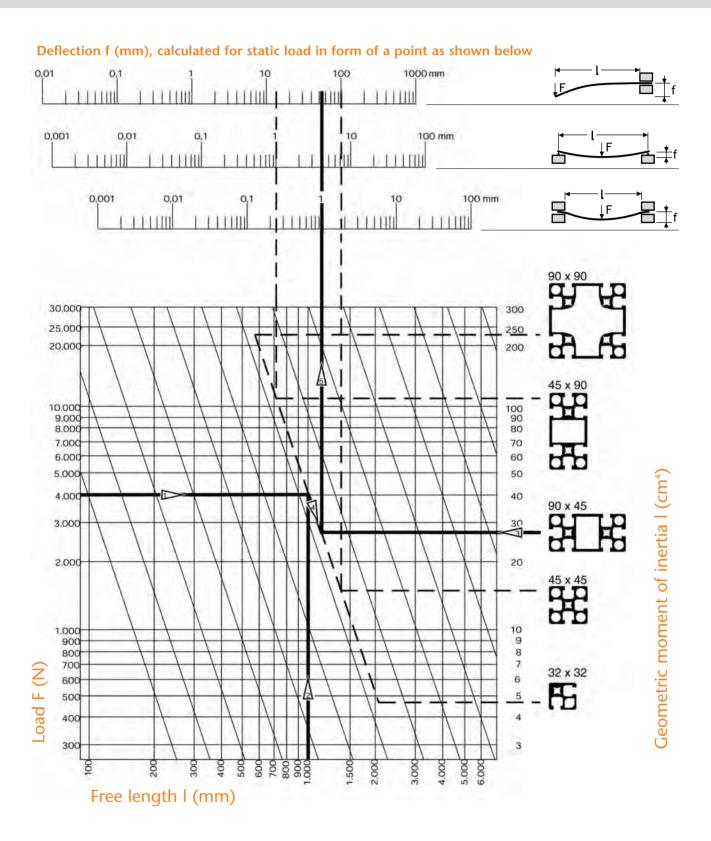




F = 6000 N

Sliding nuts can be swiveld in at any point of the profile.

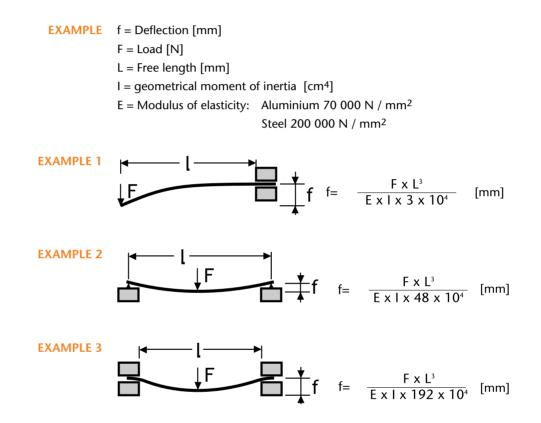
DETERMINATION OF THE DEFLECTION OF MINITEC-ALUMINUM PROFILES



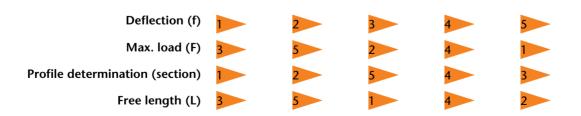
DETERMINATION OF THE DEFLECTION OF MINITEC-ALUMINUM PROFILES

The following formulas and examples of calculation are for static load in the form of a point. For the determination of other load, please use the equations in the relevant literature. In particular we want to point out that reduced values should be used for dynamic loads.

CALCULATION OF DEFLECTION OF MINITEC PROFILES



The above mentioned equations are easy to calculate using the diagram on the previous page. Follow the steps in the given row for the respective value.

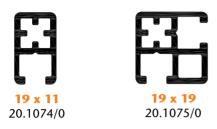


245	16 25 26 34	1.1 ALUMINIUM PROFILES PROFILE SERIES MINI PROFILE SERIES 30 PROFILE SERIES 45
22	64	1.2 FASTENING ELEMENTS
10	104	1.3 LINKS & HINGES
33	120	1.4 HANDLES, LOCKS, STOPS
3	146	1.5 FEET, WHEELS, FLOOR FASTENINGS, SUPPORTS
	170	1.6 FITTING OF PANEL ELEMENTS ASSEMBLY POSSIBILITIES
745	188	1.7 EDGE-, COVER-, SLIDE- AND SEALING PROFILES
0	204	1.8 PRE-ASSEMBLED ELEMENTS FOR LIFTING AND SLIDING DOORS
1. Contraction of the second s	226	1.9 ELECTRICAL INSTALLATION
	241	1.10 DRIVE UNITS AND CONTROL SYSTEM
Ø	248	1.11 PNEUMATIC
	254	1.12 HYDRAULIC

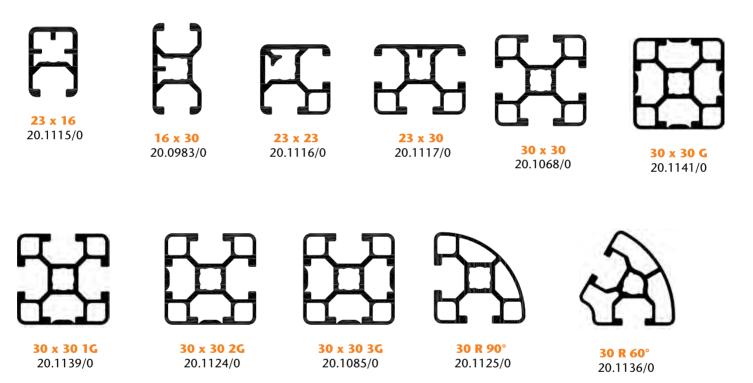
BBOFILE SYSTEM

PROFILE SECTIONS PROFILE SERIES MINI AND 30

PROFILE SERIES MINI



PROFILE SERIES 30

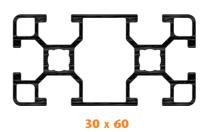




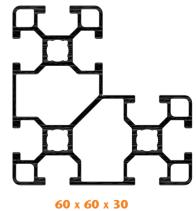
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20.1134/0



20.0994/0



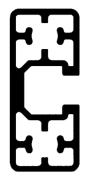
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19 x 32 20.1000/0



19 x 45 20.1001/0



45 x 19 20.0993/0



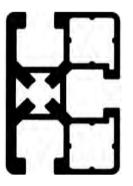
32 x 32 UL 20.1064/0



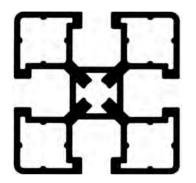
32 x 32 F 20.1054/0



Clamp profile 32 x 32 20.1070/0



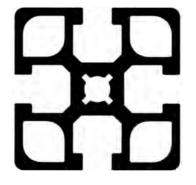
45 x 32 UL 20.1065/0



45 x 45 UL 20.1063/0



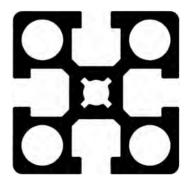
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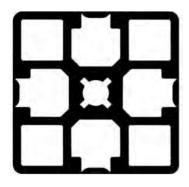
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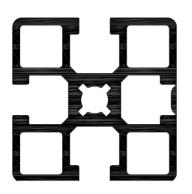
Clamp profile 45 x 32 20.1053/0



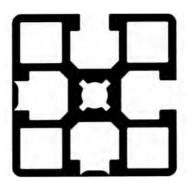
45 x 45 20.1006/0



45 x 45 G 20.1028/0



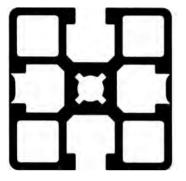
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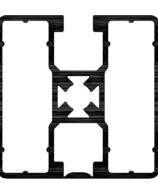


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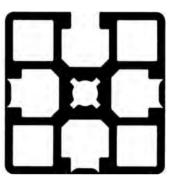
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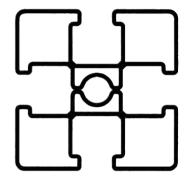
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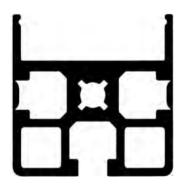
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45 x 45 3G 20.1048/0



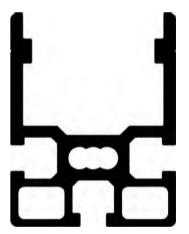
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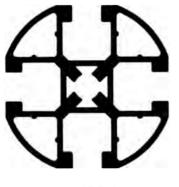
45 x 45 R 20.1046/0



Cover profile for 45 x 45 R 20.1037/0



Profile height adjustable 20.1143/0



45 R 4 20.1120/0



45 R 90° 20.1069/0



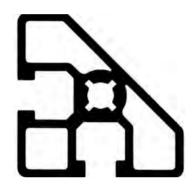
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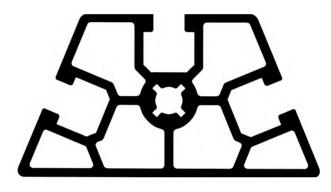
45 R 45° 20.1095/0



45 R 30° 20.1094/0



45/45° 20.1029/0



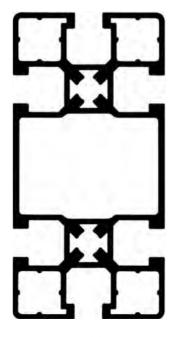
45/22,5° 20.1030/0



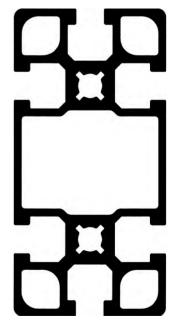
19 x 90 20.0995/0



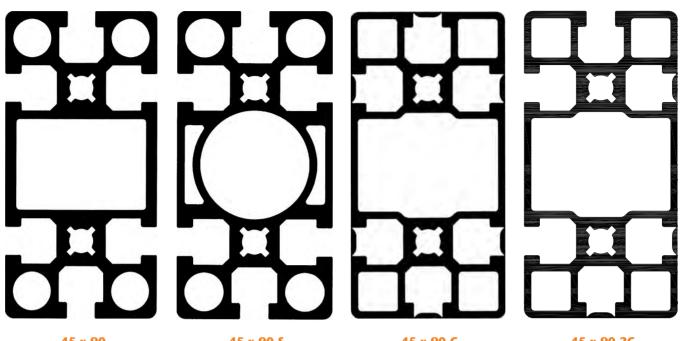
90 x 32 UL 20.1066/0



45 x 90 UL 20.1067/0



45 x 90 F 20.1032/0

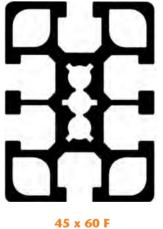


45 x 90 20.1009/0

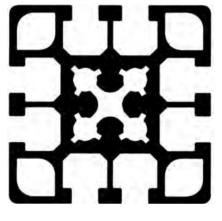
45 x 90 S 20.1017/0

45 x 90 G 20.1015/0

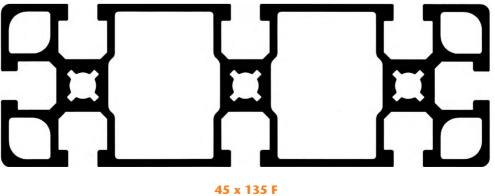
45 x 90 2G 20.1081/0



45 x 60 F 20.1023/0



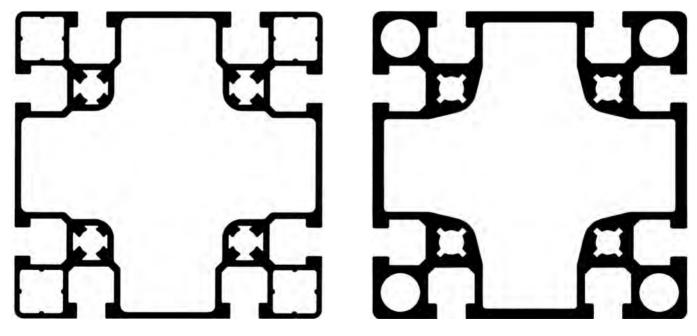
60 x 60 F 20.1049/0



20.1087/0

45 x 135 1G 20.1078/0

45 x 180 1G 20.1079/0

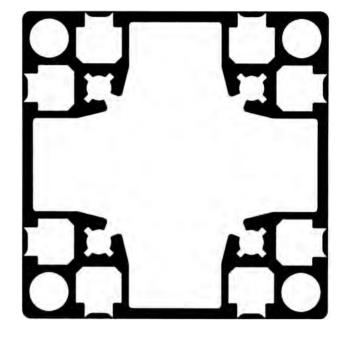


90 x 90 UL 20.0999/0

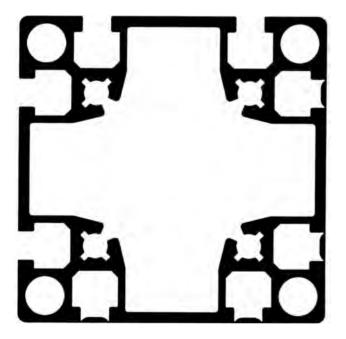
90 x 90 L 20.1010/0



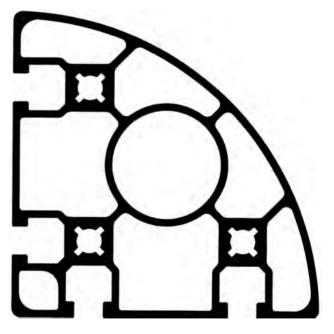
90 x 90 S 20.1019/0



90 x 90 G 20.1082/0



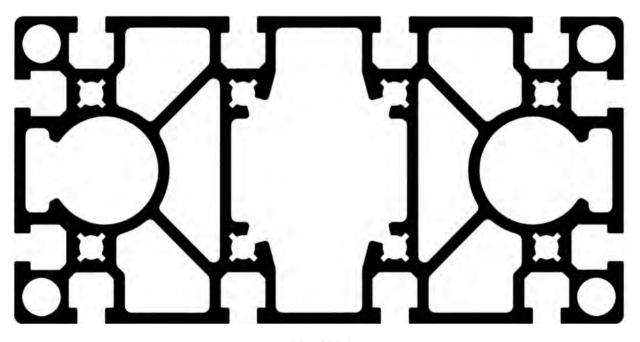
90 x 90 2G 20.1044/0



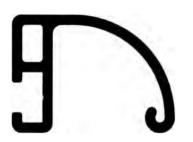
90 R 90° 20.1091/0



32 x 180 20.1016/0



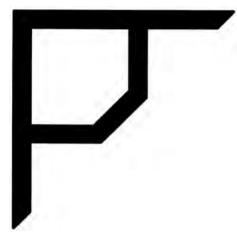
90 x 180 S 20.1013/0



Handle profile 20.1045/0



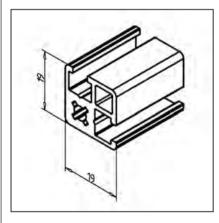
Handle profile 32 20.1088/0



Angular profile 89 x 89 20.1011/0 **270 x 19** 20.1077/0

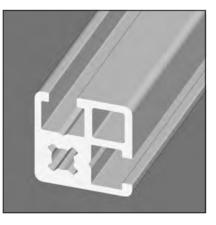
PROFILE 19 X 11 part no. 20.1074/0 2 ØS TECHN. DATA / ITEMS SUPPLIED **APPLICATIONS** ASSEMBLY - Ix = - Small guards and constructions - Screw-connection 11, part no. 21.1574/1 0,327 cm4 - ly = 0,166 cm4 - Suitable end cap grey: part no. 22.1030/1 - Square nut M5 for profile series MINI part no. 21.1382/0 0,287 cm³ - wx = 0,302 cm³ - wy = - Slot dimension and core hole for thread M5 - Weight 0,326 kg/m - Length 6 m

PROFILE 19 X 19



TECHN. DATA / ITEMS SUPPLIED

- x =	0,570 cm⁴
- ly =	0,570 cm⁴
- wx =	0,543 cm ³
- wy =	0,543 cm ³
 Slot dimension and co M5 	re hole for thread
- Weight	0,460 kg/m
- Length	6 m



APPLICATIONS

- Small guards and constructions in which very small profiles are required

- Suitable end cap grey: part no. 22.1031/1

Contraction of the second seco

part no. 20.1075/0

ASSEMBLY

- Screw-connection 11, part no. 21.1574/1

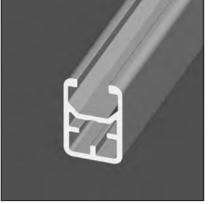
- Square nut M5 for profile series MINI part no. 21.1382/0

PROFILE 23 X 16

R

TECHN. DATA / ITEMS SUPPLIED

- Ix =	0,602 cm⁴
- ly =	0,442 cm ⁴
- wx =	0,472 cm ³
- wy =	0,552 cm ³
- Weight	0,341 kg/m
- Length	6 m
- Packing unit	72 m



APPLICATIONS

- Light constructions such as holders, protective devices, etc.

part no. 20.1115/0



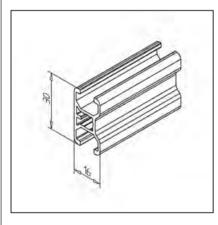
ASSEMBLY

- Power-lock fastener 30 / N 30
- Mitre connector 30
- Screw connection 30

- Angle 16

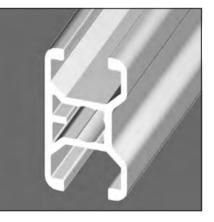
- Mount to this profile using square nuts 30 available in M4 / M5 / M6 / M8

PROFILE 16 X 30



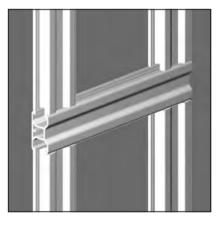
TECHN. DATA / ITEMS SUPPLIED

- Ix =	1,008 cm⁴
- ly =	0,479 cm⁴
- wx =	0,672 cm ³
- wy =	0,544 cm ³
- Weight	0,382 kg/m
- Length	6 m
 Packing unit 	72 m



APPLICATIONS

- Light constructions such as holders, protective devices, etc.



part no. 20.0983/0

ASSEMBLY

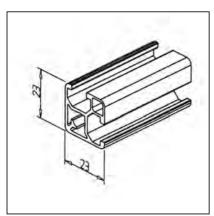
- Power-lock fastener 30 / N 30

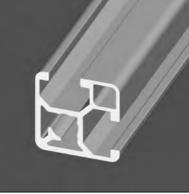
- Mitre connector 30
- Screw connection 30

- Angle 16

part no. 20.1116/0

PROFILE 23 X 23





TECHN. DATA / ITEMS SUPPLIED

- Ix =	0,921 cm₄
- ly =	0,921 cm ⁴
- wx =	0,729 cm ³
- wy =	0,729 cm ³
- Weight	0,443 kg/m
- Length	6 m
- Packing unit	72 m



- Light constructions such as holders, protective devices, etc.

-P4 Degrade -P3 Bridge

ASSEMBLY

- Power-lock fastener 30 / N 30

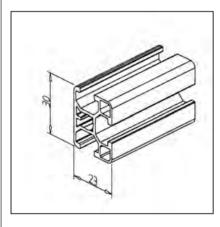
- Mitre connector 30

- Screw connection 30

- Angle 16

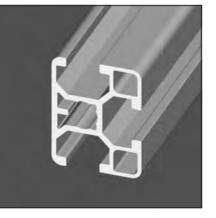
- Mount to this profile using square nuts 30 available in M4 / M5 / M6 / M8

PROFILE 23 X 30



TECHN. DATA / ITEMS SUPPLIED

- x =	1,565 cm⁴
- ly =	1,187 cm⁴
- wx =	1,043 cm ³
- wy =	0,975 cm ³
- Weight	0,524 kg/m
- Length	6 m
 Packing unit 	72 m



APPLICATIONS

- Light constructions such as holders, protective devices, etc.

part no. 20.1117/0



ASSEMBLY

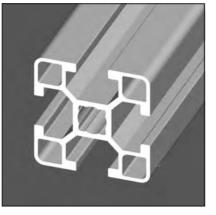
- Power-lock fastener 30 / N 30

- Mitre connector 30

- Screw connection 30

- Angle 16 / 30

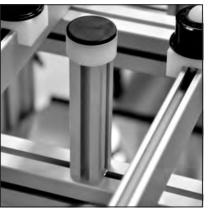
PROFILE 30 X 30



APPLICATIONS

- Light constructions such as holders, protective devices, etc.

part no. 20.1068/0



ASSEMBLY

- Power-lock fastener 30 / N 30

- Mitre connector 30

- Screw connection 30

- Angle 16 / 30

- Mount to this profile using square nuts 30 available in M4 / M5 / M6 / M8

- ly = 2,133 cm⁴

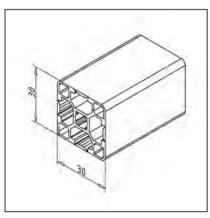
2,133 cm4

TECHN. DATA / ITEMS SUPPLIED

- Ix =

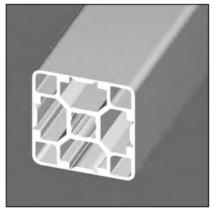
- Iy =	2,133 CM*
- wx =	1,422 cm ³
- wy =	1,422 cm ³
- Weight	0,652 kg/m
- Length	6 m
 Packing unit 	54 m

PROFILE 30 X 30 G



TECHN. DATA / ITEMS SUPPLIED

- x =	2,554 cm⁴
- ly =	2,554 cm⁴
- wx =	1,702 cm ³
- wy =	1,702 cm ³
- Weight	0,749 kg
- Length	6 m
 Packing unit 	54 m



APPLICATIONS

- Light constructions such as holders, protective devices, etc.

 Particularly useful in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set

part no. 20.1141/0

ASSEMBLY

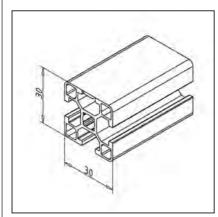
- Power-lock fastener 30 / N 30

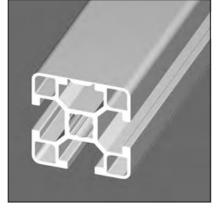
- Mitre connector 30

- Screw connection 30

- Angle 16 / 30

PROFILE 30 X 30 1G





APPLICATIONS

- Light constructions such as holders, protective devices, etc.
- Particularly useful in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set

part no. 20.1139/0

ASSEMBLY

- Power-lock fastener 30 / N 30
- Mitre connector 30
- Screw connection 30

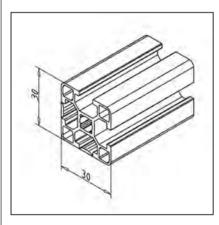
- Angle 16 / 30

- Mount to this profile using square nuts 30 available in M4 / M5 / M6 / M8

TECHN. DATA / ITEMS SUPPLIED

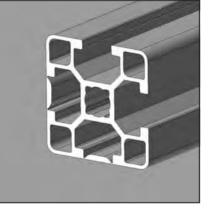
- Ix =	2,311 cm⁴
- ly =	2,112 cm⁴
- wx =	1,481 cm ³
- wy =	1,408 cm ³
- Weight	0,666 kg/m
- Length	6 m
- Packing unit	54 m

PROFILE 30 X 30 2G



TECHN. DATA / ITEMS SUPPLIED

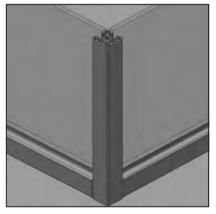
- Ix =	2,334 cm⁴
- ly =	2,334 cm⁴
- wx =	1,501 cm ³
- wy =	1,501 cm ³
- Weight	0,695 kg/m
- Length	6 m
 Packing unit 	54 m



APPLICATIONS

- Light constructions such as holders, protective devices, etc.
- Particularly useful in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set

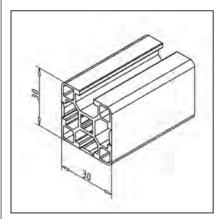
part no. 20.1124/0



ASSEMBLY

- Power-lock fastener 30 / N 30
- Mitre connector 30
- Screw connection 30
- Angle 16 / 30
- Mount to this profile using square nuts 30 available in M4 / M5 / M6 / M8

PROFILE 30 X 30 3G



TECHN. DATA / ITEMS SUPPLIED

2,321 cm4

2,537 cm4

1,493 cm3

1,691 cm³

0,722 kg/m

6 m

54 m

- Ix =

- ly =

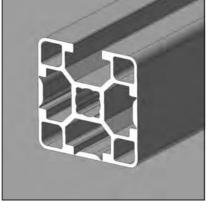
- wx =

- wy =

- Weight

- Length

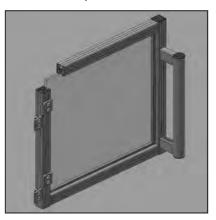
- Packing unit



APPLICATIONS

- Light constructions such as holders, protective devices, etc.
- Particularly useful in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set

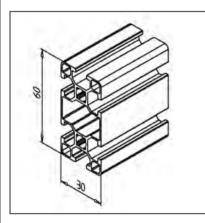
part no. 20.1085/0



ASSEMBLY

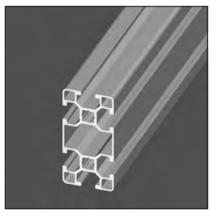
- Power-lock fastener 30 / N 30
- Mitre connector 30
- Screw connection 30
- Angle 16 / 30
- Mount to this profile using square nuts 30 available in M4 / M5 / M6 / M8

PROFILE 30 X 60



TECHN. DATA / ITEMS SUPPLIED

- Ix =	14,898 cm⁴
- ly =	3,792 cm⁴
- wx =	4,966 cm ³
- wy =	2,528 cm ³
- Weight	1,069 kg/m
- Length	6 m
 Packing unit 	54 m



APPLICATIONS

- Light constructions such as holders, protective devices

part no. 20.0994/0



ASSEMBLY

- Power-lock fastener 30 / N 30

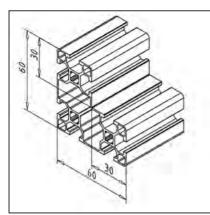
- Mitre connector 30

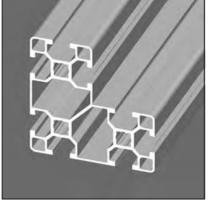
- Screw connection 30

- Angle 16 / 30

part no. 20.0982/0

PROFILE 60 X 60 X 30





TECHN. DATA / ITEMS SUPPLIED

- x =	19,107 cm₄
- ly =	19,107 cm⁴
- wx =	5,572 cm ³
- wy =	5,572 cm ³
- Weight	1,534 kg/m
- Length	6 m
- Packing unit	36 m

APPLICATIONS
- Light construction
- Tables
- Racks
- Framework constructions
- Bracings

ASSEMBLY	

AJJEMDET

- Power-lock fastener 30 / N 30

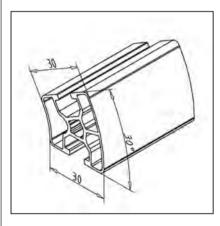
- Mitre connector 30

- Screw connection 30

- Angle 16 / 30

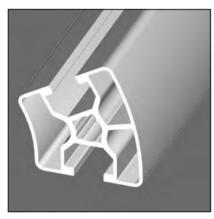
- Mount to this profile using square nuts 30 available in M4 / M5 / M6 / M8

PROFILE 30 R 30°



TECHN. DATA / ITEMS SUPPLIED

- x =	1,939 cm₄
- ly =	1,909 cm⁴
- wx =	0,982 cm ³
- wy =	1,006 cm ³
- Weight	0,601 kg/m
- Length	6 m
 Packing unit 	72 m



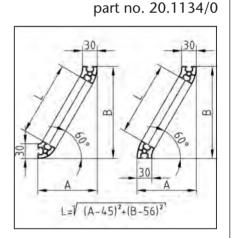
APPLICATIONS

- Light construction
- Tables

- Racks

- Framework constructions

- Bracings



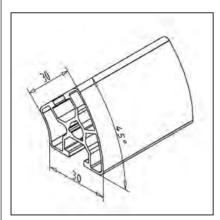
ASSEMBLY

- Power-lock fastener 30 / N 30

- Mitre connector 30
- Screw connection 30

- Angle 16 / 30

PROFILE 30 R 45°





TECHN. DATA / ITEMS SUPPLIED

- lx =	1,909 cm ⁴
- ly =	1,812 cm⁴
- wx =	0,924 cm ³
- wy =	0,951 cm ³
- Weight	0,601 kg/m
- Length	6 m
- Packing unit	72 m

APPLICATIONS
- Light construction
- Tables
Dealer
- Racks
- Framework constructions
- Framework constructions
- Bracings

part no. 20.1135/0 L=12*A2 - 72.44 ASSEMBLY - Power-lock fastener 30 / N 30,

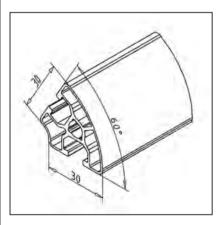
- Mitre connector 30

- Screw connection 30

- Angle 16 / 30

- Mount to this profile using square nuts 30 available in M4 / M5 / M6 / M8

PROFILE 30 R 60°



TECHN. DATA / ITEMS SUPPLIED

- Ix =	1,847 cm⁴
- ly =	1,721 cm⁴
- wx =	0,904 cm ³
- wy =	0,951 cm ³
- Weight	0,590 kg/m
- Length	6 m
 Packing unit 	72 m



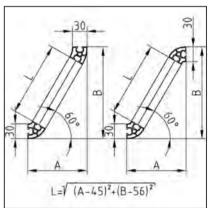
APPLICATIONS

- Light construction
- Tables

- Racks

- Framework constructions

- Bracings



ASSEMBLY

- Power-lock fastener 30 / N 30

- Mitre connector 30

- Screw connection 30

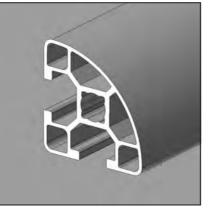
- Angle 16 / 30

- Mount to this profile using square nuts 30 available in M4 / M5 / M6 / M8

part no. 20.1136/0

PROFILE 30 R 90°

30	A		
L			
	-1Q	1	



TECHN. DATA / ITEMS SUPPLIED

- Ix =	1,847 cm⁴
- ly =	1,721 cm ⁴
- wx =	0,904 cm ³
- wy =	0,951 cm ³
- Weight	0,590 kg/m
- Length	6 m
- Packing unit	72 m

APPLICATIONS
- Light construction
- Tables
- Racks
- Framework constructions

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ASSEMBLY

- Power-lock fastener 30 / N 30

- Mitre connector 30

П

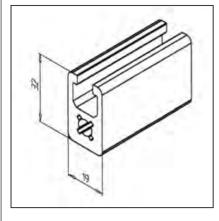
- Screw connection 30

- Angle 16 / 30 / 30 R 90°

- Mount to this profile using square nuts 30 available in M4 / M5 / M6 / M8

part no. 20.1125/0

PROFILE 19 X 32



TECHN. DATA / ITEMS SUPPLIED

- Ix =	3,102 cm⁴
- ly =	1,526 cm⁴
- wx =	1,651 cm ³
- wy =	1,606 cm ³
- Weight	0,987 kg/m
- Length	6 m
- Packing unit	60 m



APPLICATIONS

- Light constructions
- Panel frames
- Light supports
- Grip rails

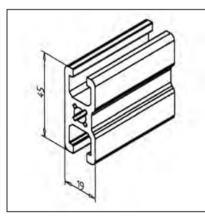
part no. 20.1000/0

ASSEMBLY

- MiniTec power-lock fastener
- Angle 19 GD-Z
- Bolt-fastener 15

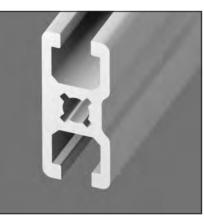
- Screw connection

PROFILE 19 X 45



TECHN. DATA / ITEMS SUPPLIED

- x =	6,173 cm⁴
- ly =	1,843 cm⁴
- wx =	2,743 cm ³
- wy =	1,836 cm ³
- Weight	1,101 kg/m
- Length	6 m
 Packing unit 	60 m



APPLICATIONS

-	Light	supports,	Bracings

- Light constructions

- Panel frames

- Shelves

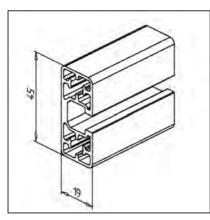
part no. 20.1001/0

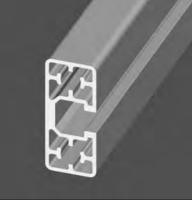
ASSEMBLY

- MiniTec power-lock fastener
- Angle 19
- Bolt-fastener 15
- Screw connection

part no. 20.0993/0

PROFILE 45 X 19





TECHN. DATA / ITEMS SUPPLIED

- lx =	6,106 cm₄
- ly =	1,384 cm⁴
- wx =	2,71 cm ³
- wy =	1,45 cm ³
- Weight	0,814 kg/m
- Length	6 m
- Packing unit	72 m

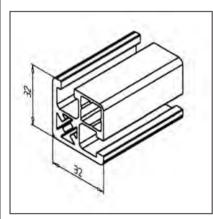
APPLICATIONS			
- Weight-optimized constructions			
Light accention of			
- Light constructions			
- Light sliding windows			
- Support plates			

- Base plates

ASSEMBLY

- Side 19 mm: MiniTec Power-lock fastener 45 F part no. 21.0818/0
- Side 45 mm: angle, power-lock fastener N or bolt-fastener

PROFILE 32 X 32 UL



TECHN. DATA / ITEMS SUPPLIED

- x =	4,100 cm⁴
- ly =	4,100 cm⁴
- wx =	2,267 cm ³
- wy =	2,267 cm ³
- Weight	1,052 kg/m
- Length	6 m
 Packing unit 	48 m



APPLICATIONS

- Light constructions - Tables - Horizontal or vertical sliding doors

- Bracings



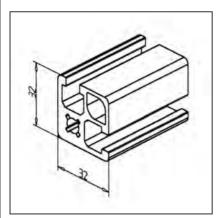
part no. 20.1064/0

ASSEMBLY

- MiniTec power-lock fastener

- Angle 19 GD-Z part no. 21.2078/0
- Bolt-fastener 15 part no. 21.1024/0
- Screw connection

PROFILE 32 X 32 F





TECHN. DATA / ITEMS SUPPLIED

- x =	4,825 cm₄
- ly =	4,825 cm⁴
- wx =	2,703 cm ³
- wy =	2,703 cm ³
- Weight	1,288 kg/m
- Length	6 m
- Packing unit	48 m

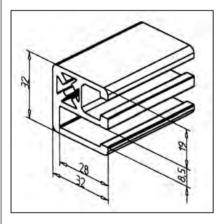
AFFLICATIONS
- Light constructions
- Tables
 Horizontal or vertical-sliding doors
- Bracings

ASSEMBL - MiniTec power-lock fastener

- Angle 19 GD-Z, part no. 21.2078/0
- Bolt-fastener 15, part no. 21.1024/0

- Screw connection

CLAMP PROFILE 32 X 32



TECHN. DATA / ITEMS SUPPLIED

- lx =	5,024 cm₄
- ly =	4,418 cm ⁴
- wx =	3,041 cm ³
- wy =	2,398 cm ³
- Weight	1,211 kg/m
- Length	6 m
- Packing unit	48 m



APPLICATIONS

- All types of safety equipment

- For clamping surface elements such as corrugated mesh, panels or plates up to a thickness of 8 mm
- For large flexible panels, split panel into sections using a center bar of clamp profile 45x32

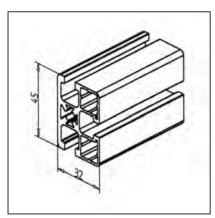
8 -50

part no. 20.1070/0

- MiniTec power-lock fastener; no bores required
- No cut-outs in surface elements required
- Premount 3 sides of the frame
- Insert surface element and mount last profile strut
- Push in distance profile on the inside or knock in with a flat tool
- For panel elements < 4 mm mount additional insert seal
- Distance profile part no. 22.1039/0 see page 182

part no. 20.1065/0

PROFILE 45 X 32 UL





TECHN. DATA / ITEMS SUPPLIED

- x =	8,292 cm₄
- 1X -	0,232 011
- ly =	5,178 cm⁴
- wx =	3,685 cm ³
	2,815 cm ³
- wy =	2,013 011-
- Weight	1,257 kg/m
- Length	6 m
- Packing unit	48 m

APPLICATIONS
- General constructions
- Light constructions
- Tables
- Racks
- Sliding doors

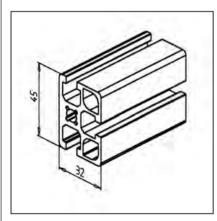
- Anne
100

ASSEMBLY

TIONS

 MiniTec power-lock fastener
- Angle 19 / 25 / 45 / 45 x 90 GD-Z
- Bolt-fastener 15 / 20
- Screw connection

PROFILE 45 X 32 F



TECHN. DATA / ITEMS SUPPLIED

- x =	10,189 cm⁴
- ly =	6,499 cm⁴
- wx =	4,528 cm ³
- wy =	3,762 cm ³
- Weight	1,588 kg/m
- Length	6 m
 Packing unit 	48 m



APPLICATIONS

- General constructions
- Tables
- Racks
- Sliding-doors
- Rails

part no. 20.1055/0



- MiniTec power-lock fastener
- Angle 19 / 25 / 45 / 45 x 90 GD-Z
- Bolt-fastener 15 / 20
- Screw connection

CLAMP PROFILE 45 X 32

ds and the second se

TECHN. DATA / ITEMS SUPPLIED

6,465 cm4

9,521 cm⁴

3,999 cm3

4,119 cm³

1,615 kg/m

6 m

48 m

- Ix =

- ly =

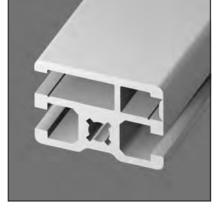
- wx =

- wy =

- Weight

- Length

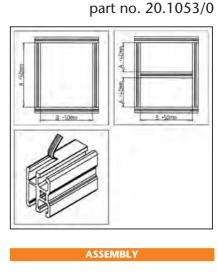
- Packing unit



APPLICATIONS

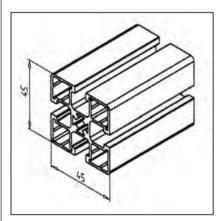
- All types of safety equipment

- Extra deep 28mm slot for fixing panels & wire mesh up to 8mm thick
- For large flexible panels, split panel into sections using a center bar of clamp profile 45x32



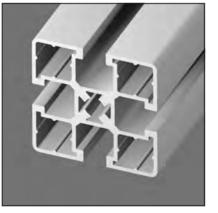
- MiniTec power-lock fastener
- No cut-outs in surface elements required
 Premount 3 sides of the frame
- Premount 3 sides of the frame
 Insert surface element and mount last
- profile strut
- Push in distance profile on the inside or knock in with a flat tool
- For panel elements < 4 mm mount additional insert seal
- Distance profile part no. 22.1039/0
- see page 182

PROFILE 45 X 45 UL



TECHN. DATA / ITEMS SUPPLIED

- Ix =	9,953 cm⁴
- ly =	9,953 cm⁴
- wx =	4,423 cm ³
- wy =	4,423 cm ³
- Weight	1,445 kg/m
- Length	6 m
 Packing unit 	54 m



APPLICATIONS

- General weight, optimized engineering structures

- General constructions

part no. 20.1063/0



- MiniTec power-lock fastener
- Angle 19 / 25 / 45 / 45 x 90 GD-Z
- Bolt-fastener 20
- Screw connection

part no. 20.1033/0

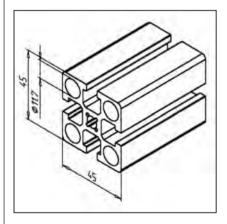
CI. 610 TECHN. DATA / ITEMS SUPPLIED **APPLICATIONS** ASSEMBLY - Ix = 14,172 cm4 - General constructions - MiniTec power-lock fastener - ly = 14,172 cm4 - Angle 19 / 25 / 45 / 45 x 90 GD-Z - Bolt-fastener 20 - wx = 6,298 cm³ - wy = 6,298 cm³ - Screw connection - Weight 2,005 kg/m - Length 6 m

PROFILE 45 X 45

36 m

- Packing unit

PROFILE 45 X 45 F



TECHN. DATA / ITEMS SUPPLIED

- Ix =	15,934 cm⁴
- ly =	15,934 cm⁴
- wx =	7,081 cm ³
- wy =	7,081 cm ³
- Weight	2,205 kg/m
- Length	6 m
 Packing unit 	36 m



APPLICATIONS

-	General	constructions	

- Compressed air piping

- Linear guides

part no. 20.1006/0



ASSEMBLY

- MiniTec power-lock fastener

- Angle 25 / 45, bolt-fastener, screw connection
- Bores Ø 11,7 mm reborable for piping thread G 1/4" for connection of blanking screws or pneumatic elements
- Lateral connections G 1/8" direct into the profile.

PROFILE 45 X 45 G

SP CONTRACTOR

TECHN. DATA / ITEMS SUPPLIED

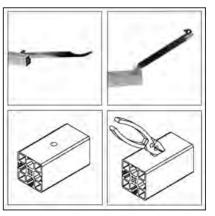
- lx =	14,087 cm4
- ly =	14,087 cm ⁴
- wx =	6,261 cm ³
- wy =	6,261 cm ³
- Weight	1,997 kg/m
- Length	6 m
- Packing unit	36 m



APPLICATIONS

- General constructions, particularly for use in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set
- Grooves can be closed with the aluminium cover profile L, **part no. 20.1021/0**, when opened too far
- Silicon sealings for profile connections on request

part no. 20.1028/0



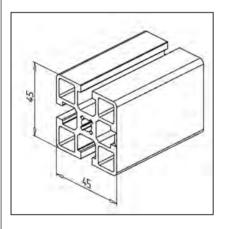
ASSEMBLY

- For tightening the MiniTec power-lock fastener, the groove cover must be opened by tear-off lever **part no. 26.0815/0** at the profile end. Opening can be covered with end cap profile G **part no. 22.1056/1**

- Angle 25 / 45

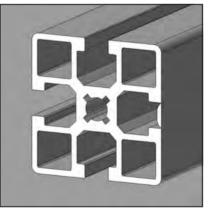
- The grooves can be opened up to any length with the tear-off lever **part no.** 26.0815/0

PROFILE 45 X 45 1G



TECHN. DATA / ITEMS SUPPLIED

- lx =	13,617 cm₄
- ly =	14,091 cm⁴
- wx =	6,052 cm ³
- wy =	6,262 cm ³
- Weight	1,897 kg/m
- Length	6 m
- Packing unit	36 m

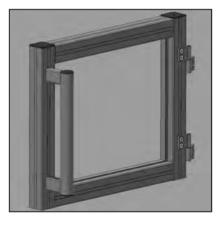


APPLICATIONS

- Groove cover can be torn out

- General constructions, particularly for use in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set
- Opened groove can be closed with the aluminium cover profile L, **part no. 20.1021/0**
- Silicon sealings for profile connections on request

part no. 20.1126/0



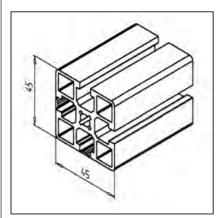
ASSEMBLY

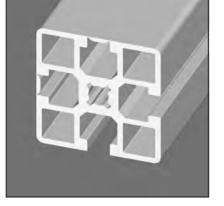
- For tightening power-lock fastener, the groove cover must be opened with tearoff leaver, **part no. 26.0815/0** at the profile end
- Cover opened groove with end cap G part no. 22.1056/0

- Angle 25 / 45

part no. 20.1072/0

PROFILE 45 X 45 2G





TECHN. DATA / ITEMS SUPPLIED

- x =	13,549 cm⁴
- ly =	13,549 cm⁴
- wx =	5,938 cm ³
- wy =	5,938 cm ³
- Weight	1,925 kg/m
- Length	6 m
- Packing unit	36 m

- General engineering structures, particularly for use in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set

APPLICATIONS

- Grooves can be closed with the aluminium cover profile L, **part no. 20.1021/0**, when opened too far

- Silicon sealings for profile connections on request



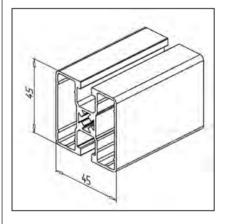
ASSEMBLY

- For tightening power-lock fastener, the groove cover must be opened with tearoff leaver, **part no. 26.0815/0** at the profile end

- Cover with end cap G part no. 22.1056/1

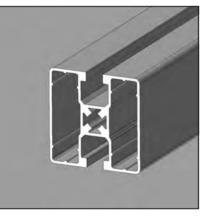
- Angle 25 / 45

PROFILE 45 X 45 UL 2GG



TECHN. DATA / ITEMS SUPPLIED

- Ix =	9,974 cm⁴
- ly =	8,553 cm⁴
- wx =	4,432 cm ³
- wy =	3,801 cm ³
- Weight	1,254 kg/m
- Length	6 m
- Packing unit	54 m
-	

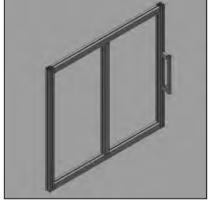


APPLICATIONS

- Weight optimized constructions

- General constructions, particularly for use in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set

- Silicon sealings for profile connections on request part no. 20.1122/0



ASSEMBLY

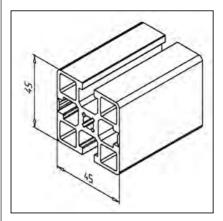
- MiniTec power-lock fastener

- Angle 19 / 25 / 45 / 45 x 90

- Bolt-fastener 20

- Screw connection

PROFILE 45 X 45 2GG



TECHN. DATA / ITEMS SUPPLIED

13,069 cm4

14,045 cm⁴

5,808 cm3

6,242 cm³

1,925 kg/m

6 m

36 m

- Ix =

- ly =

- wx =

- wy =

- Weight

- Length

- Packing unit



APPLICATIONS

- General constructions, particularly for use in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set
- Grooves can be closed with the aluminium cover profile L, **part no. 20.1021/0**, when opened too far
- Silicon sealings for profile connections on request



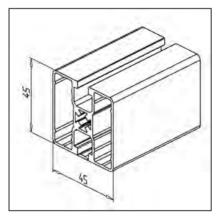
ASSEMBLY

- For tightening power-lock fastener, the groove cover must be opened with tearoff leaver, **part no. 26.0815/0** at the profile end

- Cover with end cap G part no. 22.1056/1

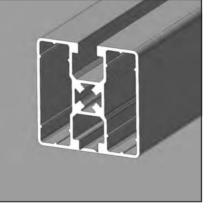
- Angle 25 / 45

PROFILE 45 X 45 UL 3G



TECHN. DATA / ITEMS SUPPLIED

- x =	10,44 cm₄
- ly =	8,557 cm⁴
- wx =	4,64 cm ³
- wy =	3,803 cm ³
- Weight	1,281 kg/m
- Length	6 m
 Packing unit 	54 m



APPLICATIONS

- Groove cover can be torn out

- Weight optimized constructions

- General constructions, particularly useful in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set
- Silicon sealings for profile connections on request

part no. 20.1123/0



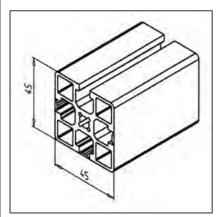
ASSEMBLY

- MiniTec power-lock fastener

- Angle 19 / 25 / 45 / 45 x 90

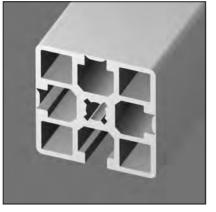
- Screw connection

PROFILE 45 X 45 3G



TECHN. DATA / ITEMS SUPPLIED

- Ix =	13,554 cm⁴
- ly =	14,049 cm ⁴
- wx =	5,941 cm ³
- wy =	6,244 cm ³
- Weight	1,953 kg/m
- Length	6 m
- Packing unit	36 m



APPLICATIONS

- General constructions, particularly useful in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set
- Grooves can be closed with the aluminium cover profile L, **part no.** 20.1021/0
- Silicon sealings for profile connections on request

part no. 20.1048/0
ASSEMBLY
- For tightening power-lock fastener, the

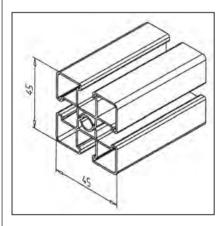
- For tightening power-lock fastener, the groove cover must be opened with tearoff leaver, **part no. 26.0815/0** at the profile end

- Cover with end cap G part no. 22.1056/1

- Angle 25 / 45

- The grooves can be opened up to any length with the tear-off lever **part no.** 26.0815/0

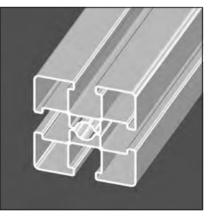
PROFILE 45 X 45 VA



TECHN. DATA / ITEMS SUPPLIED

- Material: WN DIN 1.4301	
(x5 Cr Ni 18-10, SUS 304)	

6,47 cm⁴
6,47 cm ⁴
2,88 cm ³
2,88 cm ³
2,85 kg/m
6 m
40 m



APPLICATIONS

- Food and beverage industry
- Outdoor constructions

- Chemical industry

- Pharmaceutical industry

- High temperatures

part no. 20.2000/0



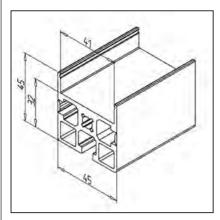
ASSEMBLY

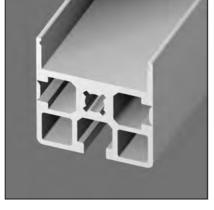
- Power-lock fastener H, part no. 21.1018/1

- Angles

- Screws M8, stainless

PROFILE 45 X 45 R





TECHN. DATA / ITEMS SUPPLIED

- lx =	8,296 cm₄
- ly =	12,997 cm⁴
- wx =	3,247 cm ³
- wy =	5,776 cm ³
- Weight	1,711 kg/m
- Length	6 m
- Packing unit	36 m

APPLICATIONS

- Combination of constructional element and:

- Cable duct

- Guiding groove for belt conveyor

- Serpentine energy chain guide

- Multi-purpose conduit with snap on cover

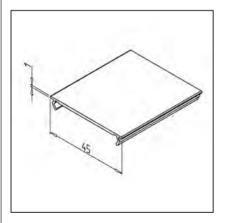
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X	

ASSEMBLY

- MiniTec power-lock fastener

- The lateral grooves can be opened up to any length with the tear-off lever part no. 26.0815/0

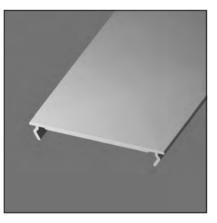
COVER PROFILE 45 X 45 R



TECHN. DATA / ITEMS SUPPLIED

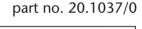
- PVC impact resistant, grey

- Weight	0,110 kg/m
- Length	2 m



APPLICATIONS

- Covering of profiles 45 x 45 R





ASSEMBLY

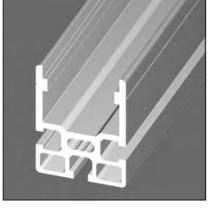
- Snaps onto profile 45 x 45 R

part no. 20.1046/0

part no. 20.1143/0

PROFILE HEIGHT ADJUSTMENT

the second secon



TECHN. DATA / ITEMS SUPPLIED

- Ix =	40,251 cm₄
- ly =	39,822 cm⁴
- wx =	9,624 cm ³
- wy =	14,749 cm ³
- Weight	2,94 kg/m
- Length	6 m
 Packing unit 	24 m

APPLICATIONS

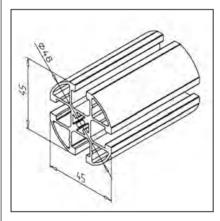
- Height adjustment

- Telescopic applications

ASSEMBLY

- When processed profile can be either clamped or snapped in

PROFILE 45 R 4



TECHN. DATA / ITEMS SUPPLIED

- x =	8,163 cm⁴
- ly =	8,163 cm⁴
- wx =	3,628 cm ³
- wy =	3,628 cm ³
- Weight	1,405 kg
- Length	6 m
 Packing unit 	48 m

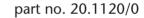


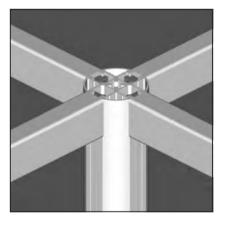
- Weight-optimised constructions

- Handrail

- Connection of profiles 19

- Handles with different length for doors and drawers





ASSEMBLY

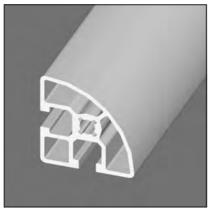
- MiniTec Power lock fastener

- Angle 19 GD-Z, part no. 21.2078/0

- Screw connection

PROFILE 45 R 90°

55



TECHN. DATA / ITEMS SUPPLIED

9,138 cm⁴
9,138 cm⁴
3,581 cm ³
3,581 cm ³
1,478 kg/m
6 m
48 m

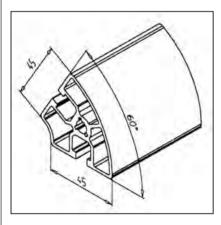
APPLICATIONS
- Light construction
- Tables
- Racks
- Framework constructions

part no. 20.1069/0

ASSEMBLY

- MiniTec power-lock fastener
- Angle 45 R 90°
- Cross bolt-fastener

PROFILE 45 R 60°



TECHN. DATA / ITEMS SUPPLIED

- x =	11,446	cm₄
- ly =	10,280	cm₄
- wx =	3,667	cm³
- wy =	3,752	cm³
- Weight	1,575	kg/m
- Length	6	m
 Packing unit 	48	m

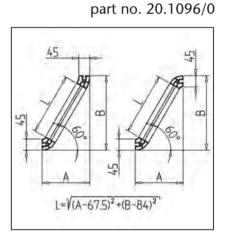


APPLICATIONS

- Angled enclosures
- Tables
- Racks

- Framework constructions

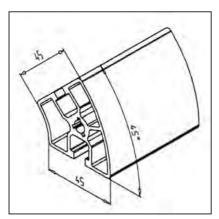
- Bracings



ASSEMBLY

- MiniTec power-lock fastener

PROFILE 45 R 45°

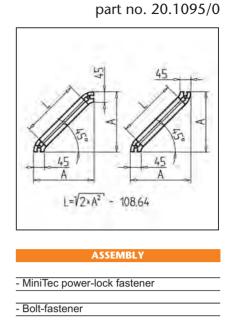




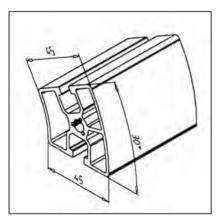
TECHN. DATA / ITEMS SUPPLIED

- Ix =	12,457 cm⁴
- ly =	11,296 cm⁴
- wx =	3,976 cm ³
- wy =	3,837 cm ³
- Weight	1,607 kg/m
- Length	6 m
- Packing unit	48 m
. .	

APPLICATIONS
- Angled enclosures
- Tables
- Racks
- Framework constructions
- Bracings



PROFILE 45 R 30°



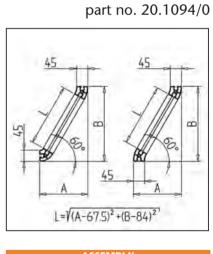
TECHN. DATA / ITEMS SUPPLIED

- x =	12,138 cm⁴
- ly =	11,006 cm⁴
- wx =	4,018 cm ³
- wy =	3,883 cm ³
- Weight	1,626 kg/m
- Length	6 m
 Packing unit 	48 m



APPLICATIONS

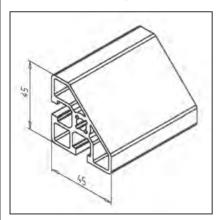
- Angled enclosures
- Tables
- Racks
- Framework constructions
- Bracings

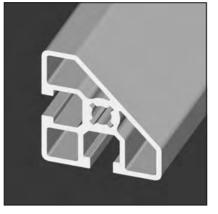


ASSEMBLY

- MiniTec power-lock fastener

PROFILE 45 / 45°





TECHN. DATA / ITEMS SUPPLIED

- Ix =	8,626 cm⁴
- ly =	8,626 cm⁴
- wx =	3,315 cm ³
- wy =	3,315 cm ³
- Weight	1,443 kg/m
- Length	6 m
- Packing unit	48 m
¥	

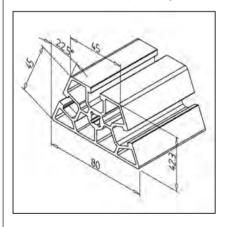
APPLICATIONS
- Light construction
- Tables
- Framework constructions
- Bracings

part no. 20.1029/0

ASSEMBLY

- MiniTec power-lock fastener - Angle 45°
- Angle 45 / 90
- Bolt-fastener

PROFILE 45 / 22,5°



TECHN. DATA / ITEMS SUPPLIED

- x =	14,506 cm⁴
- ly =	33,432 cm⁴
- wx =	7,934 cm ³
- wy =	8,515 cm ³
- Weight	2,225 kg/m
- Length	6 m
 Packing unit 	36 m



APPLICATIONS

- Machine guards + angled enclosures

- Tables

- Connection of construction elements at an angle of 45°

- Bracings

part no. 20.1030/0



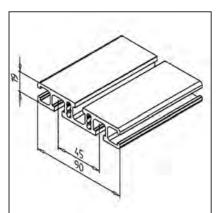
ASSEMBLY

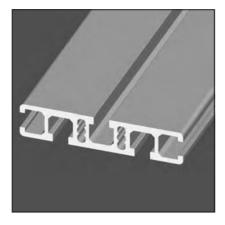
- MiniTec power-lock fastener

- Angle

part no. 20.0995/0

PROFILE 19 X 90





TECHN. DATA / ITEMS SUPPLIED

- lx =	3,436 cm₄
- ly =	45,455 cm⁴
- wx =	3,493 cm ³
- wy =	10,101 cm ³
- Weight	1,919 kg/m
- Length	6 m
- Packing unit	48 m

APPLICATIONS
- Base plates
- Bearing surfaces
 Slide plate for linear guide
- Plates for floor fastening
- Showcases

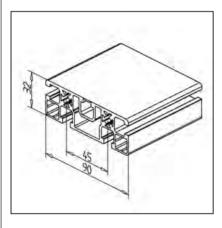
Y	

ASSEMBLY

- Bolt-fastener

- Angle

PROFILE 90 X 32 UL



TECHN. DATA / ITEMS SUPPLIED

- Ix =	10,627 cm₄
- ly =	64,889 cm⁴
- wx =	5,832 cm ³
- wy =	14,340 cm ³
- Weight	2,464 kg/m
- Length	6 m
 Packing unit 	36 m



APPLICATIONS

- General constructions
- General weight, optimized engineering structures
- Tables
- Racks
- Enclosures



part no. 20.1066/0

ASSEMBLY

- MiniTec power-lock fastener

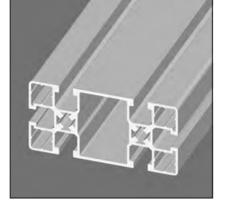
- Angle

- Screw connector

- The t-slot can be opened up to any length with the tear-off lever part no. 26.0815/0

PROFILE 45 X 90 UL

R



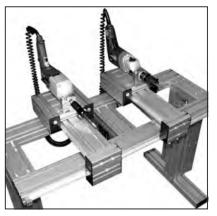
TECHN. DATA / ITEMS SUPPLIED

- Ix =	73,907 cm₄
- ly =	19,194 cm⁴
- wx =	16,423 cm ³
- wy =	8,530 cm ³
- Weight	2,421 kg/m
- Length	6 m
- Packing unit	24 m

APPLICATIONS

- General weight, optimized engineering structures
- Counterweighted sliding doors and devices

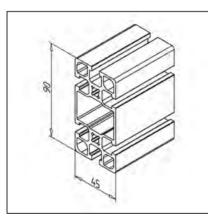
part no. 20.1067/0



ASSEMBLY

- MiniTec power-lock fastener
- Angle 19 / 25 / 45 / 45 x 90 GD-Z
- Bolt-fastener 20
- Screw connection

PROFIL 45 X 90 F



TECHN. DATA / ITEMS SUPPLIED

- x =	100,988 cm₄
- ly =	24,340 cm⁴
- wx =	22,441 cm ³
- wy =	10,818 cm ³
- Weight	3,134 kg/m
- Length	6 m
 Packing unit 	24 m



APPLICATIONS

 General 	constructions

- Counterweighted vertical doors



part no. 20.1032/0

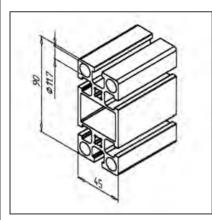
ASSEMBLY

- MiniTec power-lock fastener

- Angle 19 / 25 / 45 / 45 x 90 GD-Z

part no. 20.1009/0

PROFILE 45 X 90





TECHN. DATA / ITEMS SUPPLIED

- x =	113,205 cm₄
- ly =	28,584 cm⁴
- wx =	25,156 cm ³
- wy =	12,704 cm ³
- Weight	3,667 kg/m
- Length	6 m
- Packing unit	24 m

APPLICATIONS
 General heavy duty construction
- 4 cavities for compressed air piping

- Cavity is not suitable for counterweights



ASSEMBLY

- MiniTec power-lock fastener

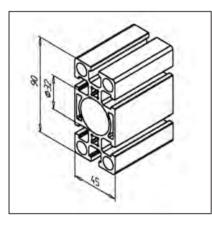
- Angle 25 / 45 / 90

- Bolt-fastener

- Bores Ø 11,7 mm reborable for piping thread G 1/4" for connection of blanking screws or pneumatic elements

- Lateral connections G 1/8" direct into the profile

PROFILE 45 X 90 S



TECHN. DATA / ITEMS SUPPLIED

- Ix =	113,487 cm₄
- ly =	30,719 cm⁴
- wx =	25,219 cm ³
- wy =	13,653 cm ³
- Weight	3,860 kg/m
- Length	6 m
 Packing unit 	24 m



APPLICATIONS

- General constructions

- Linear guides LB as slide

- Pillar guides

- Use as a compressed air line with connecting plate and seal kit

- Central bore Ø 32 mm for ball-bushings LME 20, for ball-bearings 6201 or 6002, for compressed air piping or guiding of hydraulic add-in cylinders



ASSEMBLY

- MiniTec power-lock fastener

- Angle 45 / 90

- Screw connection

PROFILE 45 X 90 G part no. 20.1015/0 The TECHN. DATA / ITEMS SUPPLIED ASSEMBLY APPLICATIONS - Ix = 101,241 cm⁴ - MiniTec power-lock fastener - General constructions, particularly useful in the food industry, in medical 25,318 cm4 engineering and for the filling of - All 6 grooves can be opened up to the - ly = beverages, where strict hygienic length desired standards are set - wx = 22,498 cm3 - Groove cover be removed using tear-off lever part no. 26.0815/0 - Cavity is suitable for counterweights 11,252 cm³ - wy = - Weight 3,191 kg/m

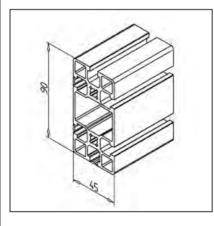
PROFILE 45 X 90 2 G

6 m

24 m

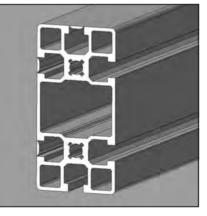
- Length

- Packing unit



TECHN. DATA / ITEMS SUPPLIED

- Ix =	98,137 cm₄
- ly =	24,317 cm⁴
- wx =	21,808 cm ³
- wy =	10,807 cm ³
- Weight	3,108 kg/m
- Length	6 m
 Packing unit 	24 m



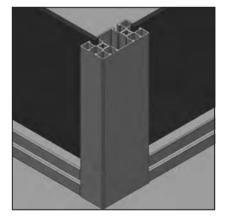
APPLICATIONS

- Groove cover can be torn out

- General constructions, particulary useful in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set

- Cavity is suitable for counterweights

part no. 20.1081/0



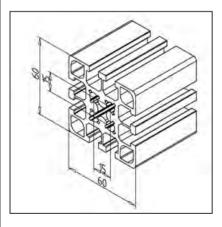
ASSEMBLY

- MiniTec power-lock fastener

- Groove cover be removed using tear-off lever part no. 26.0815/0

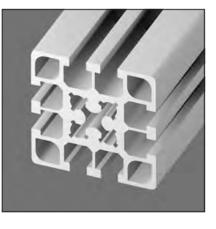
PROFILE 45 X 60 F part no. 20.1023/0 54X54 60x60 45x45 32×32 TECHN. DATA / ITEMS SUPPLIED **APPLICATIONS** ASSEMBLY - Ix = 32,068 cm4 - Universal for general constructions - MiniTec power-lock fastener - ly = 17,587 cm4 - Corner post in large guard units - Angle 19 / 25 / 45 / 45 x 90 10,689 cm³ - Central boring for thread M8 - wx = 7,816 cm³ - wy = - Weight 2,603 kg/m - Length 6 m - Packing unit 24 m

PROFILE 60 X 60 F



TECHN. DATA / ITEMS SUPPLIED

- Ix =	40,715 cm⁴
- ly =	40,715 cm⁴
- wx =	13,571 cm ³
- wy =	13,571 cm ³
- Weight	3,655 kg/m
- Length	6 m
 Packing unit 	24 m

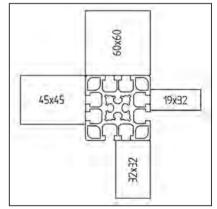


APPLICATIONS

- Universal for general constructions

- Corner post in large guard units

part no. 20.1049/0



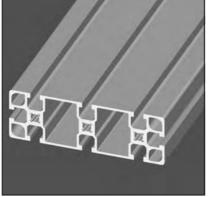
ASSEMBLY

- MiniTec power-lock fastener

- Angle 19 / 25 / 45 / 45 x 90

- Central boring for thread M10

PROFILE 45 X 135 F



TECHN. DATA / ITEMS SUPPLIED

- x =	34,958 cm₄
- ly =	307,866 cm⁴
- wx =	15,537 cm ³
- wy =	45,609 cm ³
- Weight	4,319 kg/m
- Length	6 m
- Packing unit	12 m



- General constructions

- Cavity is suitable for counterweights

part no. 20.1087/0

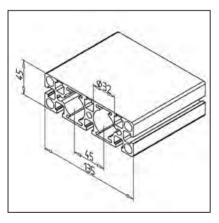
ASSEMBLY

- MiniTec power-lock fastener

- Angle 19 / 25 / 45 / 45 x 90

- Bolt-fastener

PROFILE 45 X 135 1G



TECHN. DATA / ITEMS SUPPLIED

- x =	47,064 cm⁴
- ly =	359,242 cm⁴
- wx =	20,618 cm ³
- wy =	53,221 cm ³
- Weight	5,570 kg/m
- Length	6 m
 Packing unit 	12 m



APPLICATIONS

- General constructions, particularly useful in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set

- Linear guids as slide

- Central bore Ø 32 mm for ball-bushings LME 20, for ball-bearings 6201 or 6002, for compressed air piping or guiding of hydraulic add-in cylinders

part no. 20.1078/0



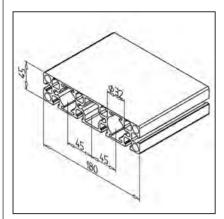
ASSEMBLY

- MiniTec power-lock fastener

- 3 closed t-slots can be opened up to any length with the tear-off lever
- part no. 26.0815/0

part no. 20.1079/0

PROFILE 45 X 180 1G



TECHN. DATA / ITEMS SUPPLIED

61,015 cm4

810,885 cm⁴

26,704 cm3

90,097 cm³

6,954 kg/m

6 m

12 m

- Ix =

- ly =

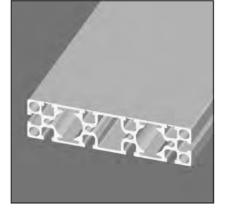
- wx =

- wy =

- Weight

- Length

- Packing unit



APPLICATIONS

- General constructions, particularly useful in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set

- Linear guides LB as slide

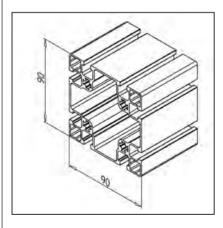
- Central bore Ø 32 mm for ball-bushings LME 20, for ball-bearings 6201 or 6002, for compressed air piping or guiding of hydraulic add-in cylinders

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ASSEMBLY

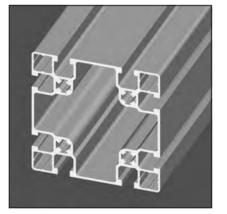
- MiniTec power-lock fastener
- 4 closed t-slots can be opened up to any length with the tear-off lever part no. 26.0815/0

PROFIL 90 X 90 UL



TECHN. DATA / ITEMS SUPPLIED

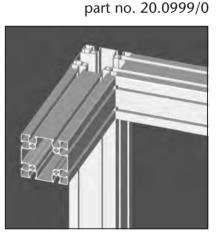
- Ix =	132,001 cm₄
- ly =	132,001 cm⁴
- wx =	29,334 cm ³
- wy =	29,334 cm ³
- Weight	3,776 kg/m
- Length	6 m
 Packing unit 	12 m



APPLICATIONS

- Weight optimized constructions

- Cavity is suitable for counterweights



- MiniTec power-lock fastener
- Angle 45 GD-Z or 90 GD-Z
- Screw connection
- Bolt-fastener

PROFILE 90 X 90 L

and a second sec



TECHN. DATA / ITEMS SUPPLIED

- x =	186,260 cm₄
- 1X -	100,200 011
- ly =	186,260 cm⁴
- wx =	41,391 cm ³
- wy =	41,391 cm ³
- Weight	5,222 kg/m
- Length	6 m
- Packing unit	12 m



- General heavy duty applications

- Cavity is suitable for counterweights

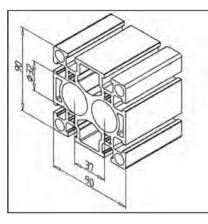
part no. 20.1010/0



ASSEMBLY

- MiniTec power-lock fastener
- Angle 45 GD-Z or 90 GD-Z
- Screw connection
- Bolt-fastener 20

PROFILE 90 X 90 S



TECHN. DATA / ITEMS SUPPLIED

- x =	223,949	cm₄
- ly =	208,888	cm ⁴
- wx =	49,766	cm ³
- wy =	46,419	cm ³
- Weight	7,514	kg/m
- Length	6	m
 Packing unit 	12	m



APPLICATIONS

- General heavy duty constructions

- Linear guides LB as slide

- Central bore Ø 32 mm for ball-bushings LME 20, for ball-bearings 6201 or 6002, for compressed air piping or guiding of hydraulic add-in cylinders



part no. 20.1019/0



ASSEMBLY

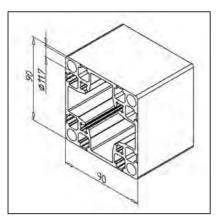
- MiniTec power-lock fastener

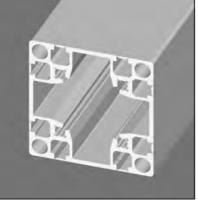
- Angle 45 or 90

- Screw connection

part no. 20.1082/0

PROFILE 90 X 90 G





TECHN. DATA / ITEMS SUPPLIED

- Ix =	195,271 cm⁴
- ly =	195,271 cm⁴
- wx =	43,393 cm ³
- wy =	43,393 cm ³
- Weight	5,329 kg/m
- Length	6 m
- Packing unit	12 m

APPLICATIONS
- Groove cover can be torn out

 General constructions, particularly useful in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set

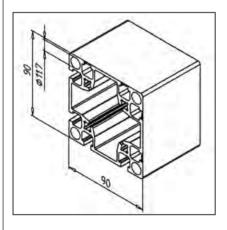
- Cavity is suitable for counterweights

ASSEMBLY

- MiniTec power-lock fastener

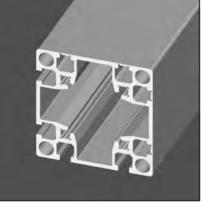
- 8 closed t-slots can be opened up to any length with the tear-off lever part no. 26.0815/0

PROFILE 90 X 90 2 G



TECHN. DATA / ITEMS SUPPLIED

- Ix =	190,169 cm⁴
- ly =	190,178 cm⁴
- wx =	41,825 cm ³
- wy =	42,707 cm ³
- Weight	5,217 kg/m
- Length	6 m
 Packing unit 	12 m



APPLICATIONS

- Groove cover can be torn out

- General constructions, particulary useful in the food industry, in medical engineering and for the filling of beverages, where strict hygienic standards are set

- Cavity is suitable for counterweights

part no. 20.1044/0

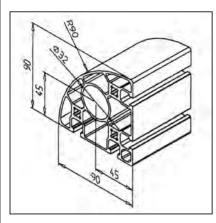


ASSEMBLY

- MiniTec power-lock fastener

- 4 closed t-slots can be opened up to any length with the tear-off lever part no. 26.0815/0

PROFILE 90 R 90°





TECHN. DATA / ITEMS SUPPLIED

- x =	113,389 cm₄
- ly =	113,389 cm⁴
- wx =	21,874 cm ³
- wy =	21,874 cm ³
- Weight	4,265 kg/m
- Length	6 m
- Packing unit	12 m

APPLICATIONS
- Tables, frames
- General constructions

part no. 20.1091/0



ASSEMBLY

- MiniTec power-lock fastener

- Cross bolt-fastener

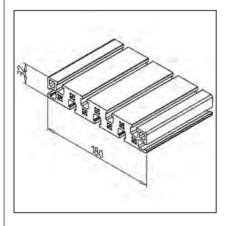
- Bolt-fastener

- End cap, **part no. 22.1021/1**

- Base and transport plate M10 - M20

- Corner Connection 90 R 90°

PROFILE 32 X 180



TECHN. DATA / ITEMS SUPPLIED

- Ix =	33,804 cm₄
- ly =	843,825 cm⁴
- wx =	21,068 cm ³
- wy =	93,758 cm ³
- Weight	9,539 kg/m
- Length	6 m
 Packing unit 	6 m



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- Slides for MiniTec- linear system LR	
 Clamping surfaces 	

- Base plate

- Heavy duty constructions



part no. 20.1016/0

ASSEMBLY

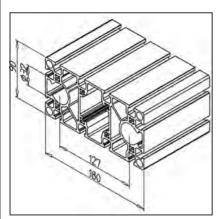
- MiniTec power-lock fastener

- Angle 45 GD-Z or 90 GD-Z

- Screw connection

part no. 20.1013/0

PROFILE 90 X 180 S





	1	ille i
-		

TECHN. DATA / ITEMS SUPPLIED

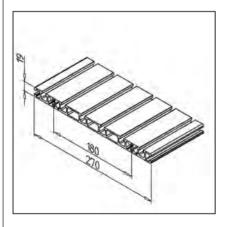
- Ix =	376,784 cm⁴
- ly =	1421,865 cm⁴
- wx =	83,729 cm ³
- wy =	157,983 cm ³
- Weight	11,482 kg/m
- Length	6 m
 Packing unit 	6 m

APPLICATIONS			
- General heavy duty constructions			
- Linear guiding LB as slide			
- Central bore Ø 32 mm for ball-bushings LME 20, for ball-bearings 6201 or 6002, for compressed air piping or guiding of hydraulic add-in cylinders			

ASSEMBLY

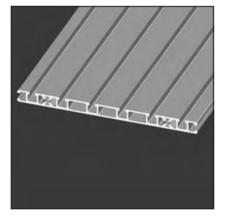
- MiniTec power-lock fastener
- Angle 45 or 90
- Screw connection

PROFILE 270 X 19



TECHN. DATA / ITEMS SUPPLIED

- x =	10,348 cm₄
- ly =	1352,197 cm⁴
- wx =	10,167 cm ³
- wy =	100,162 cm ³
- Weight	5,612 kg/m
- Length	6 m
 Packing unit 	18 m



APPLICATIONS

_			
-	Table	tops	

- Workstations

- Can be used for breadboard constructions in schooling and training projects - i.e. pneumatic, electronics, automatic-control with universal clamping socket, part no. P20060/0

- Demonstration units

part no. 20.1077/0



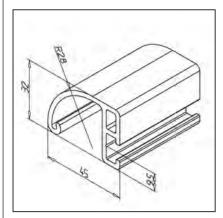
ASSEMBLY

- MiniTec power-lock fastener

- Screw connection

- Bolt-fastener 15, part no. 21.1024/0

HANDLE PROFILE



TECHN. DATA / ITEMS SUPPLIED

3,531 cm₄ 7,654 cm₄

1,985 cm3

2,856 cm³

0,890 kg/m

6 m

- Ix =

- ly =

- wx =

- wy =

- Weight

- Length



APPLICATIONS

- Handles of different lengths

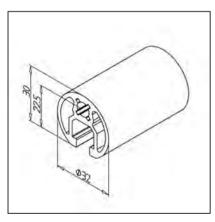
- Edges
- Table edges
- Cover ledge for cable, pneumatic conducts

part no. 20.1045/0

ASSEMBLY

- Screw connection
- Mounting angle
- Lateral cover with end caps left part no. 22.1055/0 and right part no. 22.1054/0

HANDLE PROFILE 32



TECHN. DATA / ITEMS SUPPLIED

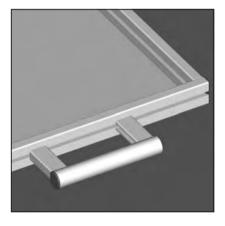
- x =	2,601 cm₄
- ly =	2,636 cm⁴
- wx =	1,682 cm ³
- wy =	1,649 cm ³
- Weight	0,911 kg
- Length	6 m
 Packing unit 	84 m



APPLICATIONS

- Handles of different lengths for doors, drawers, handrails
- Edging of panel elements or posters up to 8 mm
- Horizontal profile for fixing of small roller conveyors

part no. 20.1088/0



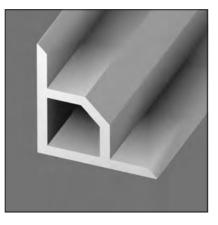
- MiniTec power lock fastener
- Angle 19 GD, part no. 21.1107/0
- Bolt-fastener
- Screw connection
- Lateral cover with end cap for handle profile 32

part no. 20.1011/0

2 . 10

ANGULAR PROFILE 89 X 89

The set of the set of



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٨٩	SEMBLY	

- Screws M8 x 20 and square nuts M8

TECHN. DATA / ITEMS SUPPLIED

- x =	105,416 cm₄
- ly =	105,416 cm⁴
- wx =	17,413 cm ³
- wy =	17,413 cm ³
- Weight	4,868 kg/m
- Length	3 m
 Packing unit 	36 m

APPLICATIONS

- Consoles

- Support surface

- Material for special mounting angles

PROFILE CAPS

SELF-LOCKING PROFILE CAPS FOR ALUMINIUM PROFILES

Profile caps for aluminium profiles fulfill important functional duties: Due to unprotected profile ends dirt and debris may intrude into the inside of the profiles which can lead to hygienic problems – not only in sensitive areas. Moreover, unprotected aluminium profiles do have sharp burrs – a possible but avoidable source for work accidents. All this is prevented by profile caps: The profiles remain clean and protected, the risk of cut injuries is minimized. Not least, they harmoniously complete the optics of the aluminium profiles.

However, in practice it is irritating for users if the mentioned functions are not ensured because of loose profile caps. MiniTec has recognized this problem and extends its portfolio with self-locking profile caps. These are fixed permanently by means of an integrated lockplug. The resulting connection prevents the cap from being dissolved from the profile. It remains at the intended place – even under hardest stress and the most extreme conditions.

True to its motto "The Art of Simplicity" the use of MiniTec profile caps is quite simple: The lock pin is driven shortly inside the profile by means of a rubber hammer. Thereby, drillings or any further treatment becomes redundant. Additionally, removing the cap is just as simple as installing it: With the help of a pin of four millimeters of diameter the plugs can be striked inside the profile for the caps to be detached. Spare plugs that make the once removed profile caps reusable again are available separately.



Insert Cap



Hammer the pin



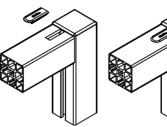
Profile stays clean and secured

		AL ANODIZED	VA
PROFILE SECTION	ABS GREY	(fastening screw	
	(Thislum and 2 mm)		
PROFILE SERIES MINI			
19x11	22.1030/1		
19x19	22.1031/1		
PROFILE SERIES 30 (Th	nickness 3 mm)		
23x16	22.0994/1*		
16x30	22.0981/1*		
23x23	22.0992/1*		
23x30	22.0993/1*		
30x30	22.1146/1*	22.1149/2	
30R90°	22.1144/1*		
30R60°	22.1169/1*		
30R45°	22.1168/1*		
30R30°	22.1167/1*		
30x60	22.1134/1*		
60x60x30	22.0978/1*		
	· · · · · ·		
PROFILE SERIES 45 (Th		22 10(0/2	
19x32	22.1220/1*	22.1060/2	
19x45	22.1001/1*	22.1064/2	
45x19	22.1136/1*	/- /-	
32x32	22.1002/1*	22.1062/2	
32x32 clamp profile	22.1032/1	22.1062/2	
45x32	22.1003/1*	22.1065/2	
45x32 clamp profile	22.1046/1	22.1065/2	
45x45	22.1004/1*	22.1067/2	22.1067/5
45R4	22.1137/1*		
45R90°	22.0996/1*	22.0996/2	
45R60°	22.1018/1*	22.1018/2	
45R45°	22.1017/1*	22.1017/2	
45R30°	22.1019/1*	22.1019/2	
Profile height adj.	22.0979/1		
45/45°	22.0995/1*		
45/22,5°	22.1052/1		
19x90	22.1014/1		
90x32	22.1061/1		
45x90	22.1007/1*	22.1068/2	
45x60	22.1058/1		
60x60	22.1057/1		
45x135	22.1049/1		
45x180	22.1048/1		
90x90	22.1069/1	22.1008/2	
90R90°	22.1021/1		
32x180	22.1059/1		
90x180	2x 22.1069/1	2x 22.1008/2	
270x19	3x 22.1014/1		
Handle profile	right 22.1054/0		
Handle profile 32	left 22.1055/0 22.1162/1*		
nunale prome 52	22.1102/1		

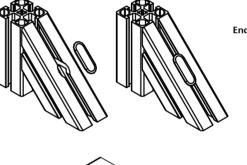
*	With	pin.

ACCESSORIES	MATERIAL	PART NO.
Flat head screw M8x10 for fixing caps made of aluminum or stainless steel	VA	21.1666/0
Replacement pins for caps with hammer taps (10 pack)	ABS grey	22.1009/1

OTHER COVERS	MATERIAL	PART NO.
End cap G for G-Profile	PA6 grau	22.1056/0
End cap GL for G-Profile	PA6 grau	22.1208/1
Lamella plug 7	PE grau	22.1200/1
Lamella plug 9	PE grau	22.1201/1
Lamella plug 15	PE grau	22.1202/1
Lamella plug 22	PE grau	22.1209/1



End cap G



End cap GL

		<	
0	9		
			Lamella plugs

SEA	MATERIAL	PART NO.	
Seal	Silicone	24.1117/0	
Seal plate	Silicone	24.1116/0	
Seal plate 45	with double-slot	Silicone	24.1118/0
	J. C.	and the second	0
Seal plate 45	Seal plate 45 with slot	Seal pla with dou	

with double-slot

POWER-LOCK FASTENER

PROFILE CONNECTION WITHOUT MACHINING





Due to recent studies there is much optimization potential especially in connection technology for profile systems. The connection must be seen as a complete system.

The total cost of a connection is composed of a number of factors:

- Design and dimensioning of bores and threads
- Providing equipment and devices
- Procurement and management of drilling and threading tools
- Work Preparation
- Working time for drilling, threading
- Internal transport

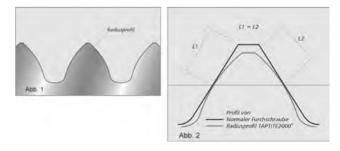
The decisive factor in this consideration is not the cost of the individual connectors. Fundamental cost factor is working time - both in design, production planning and workshop.

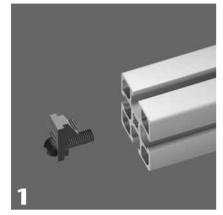


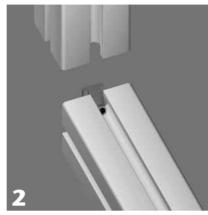
MiniTec power-lock fastener 45 SF

Apart from the cost and time advantage the MiniTec profile connector has numerous other benefits such as post-adjustability, ESD performance, ergonomic design and optical benefits. With self-tapping screws the MiniTec power-lock fastener has become even faster. The fastener is simply screwed on to the front side of the profile with the screw. With a standard cordless screwdriver this whole process takes a maximum of 3 seconds. There is no preparation for drilling, tapping, measuring or planning required.

Not only the economic superiority speaks for the MiniTec connector with self-tapping screw. Thanks to the trilobular socket shape combined with the radial profile shape of the thread flanks the new screws have low friction moments. The radial profile shape causes only little material displacement and reduces the amount of shaping work. Thus, the forming torque is lowered by up to 50%. This ensures controlled assembly and higher clamping forces with less clamping force scattering.









Easy three-step-assembly

ASSEMBLY

- 1 Slightly tighten pressure piece with screw M8 x 25 on the front side of the profile
- **2** Push profile 2 with its groove beneath the egdes of the pressure piece until the desired position is reached
- **3** Tighten set screw M8 with hex screwdriver SW4. Recommended tightening torque approximately 12 Nm

ADVANTAGES

- The corners of the profile connection remain free for panel elements
- The joint is invisible from the outside
- Secured against rotation
- Load capacity: 6000 N (UL Profile: 4000N)
- Cross connections can be easily implemented
- The compound is electrically conductive
- Ergonomically optimized

NAME	PART NO.	DESCRIPTION
Power-Lock fastener 45	21.1018/0	with filister screw M8/SW5
Power-Lock fastener 45 SF	21.0818/0	with self-tapping Torx screw M8/T40
Power-Lock fastener 45 H	21.1018/1	Cylindrical srew M8/SW5, Corrosion resistant version for use in corrosive environments
Power-Lock fastener 45 SF short	21.0020/0	with self-tapping Torx screw M8/T40, for profile connections with flush end cap
Power-Lock fastener 30	21.0014/0	with filister screw M8/SW5
Power-Lock fastener 30 SF	21.0016/0	with self-tapping Torx screw M8/T40
Power-Lock fastener 30 SF ESD	21.0037/0	with self-tapping Torx screw M8/T40



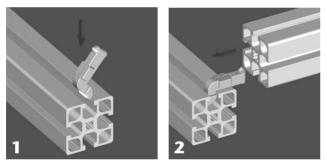
Impuls wrench part no. 26.0800/0 for joint-friendly work.

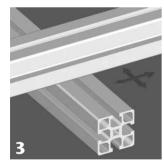
CROSS-CONNECTOR

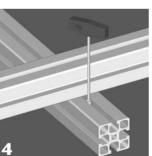
FRICTIONAL CONNECTION OF INTERSECTING PROFILES WITHOUT MACHINING



Both profiles are adjustable in direction of the groove. Particularly suitable for the attachment of linear axes LR / LB to machine frames.







ASSEMBLY

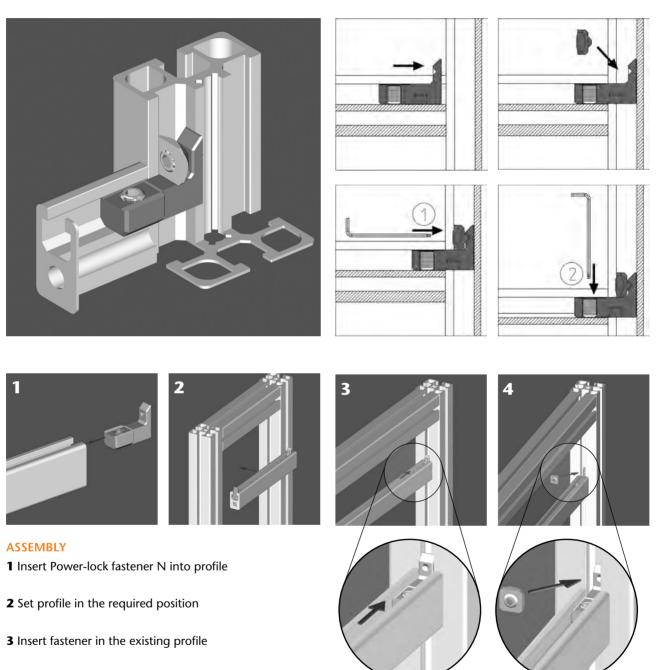
- **1** Swivel the connector into any existing base frame
- 2 Insert the profile to be connected over the connector
- **3** Position the brace profile
- **4** Tighten the set screw in the connector with a torque of 10 Nm



Slightly grease profiles at the contact points to avoid noise due to vibration.

POWER-LOCK FASTENER N

FOR SUBSEQUENT FITTING OF PROFILES INTO EXISTING FRAMES WITHOUT MACHINING

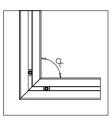


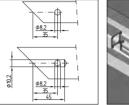
4 Slide nut over the L-shape end of the fastener and tighten with hex-key. Than tighten set screw (both 10 Nm).

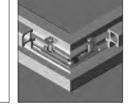
MITRE CONNECTIONS

CONSTRUCTIONS WITH HIGH VISUAL DEMANDS

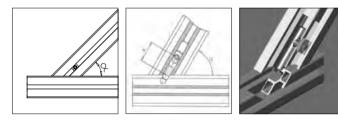
Mitre connections are used for high visual requirements on design. It should be noted that the capacity of these compounds are less than standard connectors. For heavily loaded structures mitre connections should not be used!







Mitre connector for front side connection of profiles at any angle of 30° to 180°



Mitre connector N

for connecting profiles with the grooves of continuous profiles at any angle of 30° to 90°

NAME	PART NO.	DESCRIPTION
Mitre connector 45 for profiles series 30	21.1400/0	Drill Ø 10.2 mm bore in the profile core bore. Drill Ø 8.2 bore at the distance 36.5 mm from the profile end. Insert the mitre connector in both open profile ends, position the M8 square nut with the set screw, and tighten it.
Mitre connector 30 for profiles series 30	21.1890/0	Core bore needs no machining. Other installation steps like mitre connector 45.
Mitre connector N 45 for profiles series 45	21.1401/0	Drill Ø 10.2 mm bore in the profile core bore. Drill Ø 8.2 bore depending on the angle and at distance A from the profile end (see table). Insert the mitre connector in the open profile end, position the M8 square nut with the set screw and tighten it.
Mitre connector N 30 for profiles series 45	21.0945/0	Core bore needs no machining. Other installation steps like mitre connector N 45.



Drilling jig part no. 26.1050/0 for mitre connector 45 Drilling jig part no. 26.1060/0 for mitre connector N45 Drilling jig part no. 26.1063/0 for mitre connector 30 Drilling jig part no. 26.1056/0 for mitre connector N30

Drilling jig for mitre connector N

Distance A (position of the lateral bore of the threaded pin) depends on the mitre angle. The exact amount is to be taken from the middle bore core drilling of the mitred profile to the middle of the drilling. To safely exclude dimensional errors and ensure the correct functioning of the connection, we recommend the use of our drilling jig for mitre connector N, part no. 26.1060/0.

Distance	s for co	mmon a	ngles:										
α	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°
A(mm)	21,0	22,9	24,8	25,9	27,0	27,6	28,2	28,6	29,0	29,2	29,4	29,45	29,5





Mitre connection N

Drilling jig for mitre connector

Distance A (position of the lateral bore of the threaded pin) for front-side connection of profiles is consitently 35 mm. The exact amount is to be taken from the middle bore core drilling of the mitred profile to the middle of the drilling. To safely exclude dimensional errors and ensure the correct functioning of the connection, we recommend the use of our drilling jig for mitre connector.





Use of MiniTec drilling jigs Slide jig in central bore of the mitred profile to the stopper. Tighten with screw. Insert ino profile with bore through the drilling guide inside the fixing screw.

BOLT AND BUTT FASTENER

SUBSEQUENT ASSEMBLY OF PROFILES INTO EXISTING FRAMES, EXTENSION OF PROFILES.

Bolt fastener

To compensate for the reduced capacity compared to our standard connector, bolt connectors should always be used in pairs. Note the weakening of the profile cross section.

Another criterion is the precise form of the connection bore. Deviations from the circular shape lead to reduction in the bearing surface of the connector. It is therefore necessary to process the connection bore on a milling machine.

This connection is not suitable for structures with air supply inside the profile (e.g. pneumatic applications)

Butt fastener

The processing of the profiles corresponds to processing for the bolt connectors. For the profile extension we recommend a combination of butt connectors and mounting strips made of steel.

Application

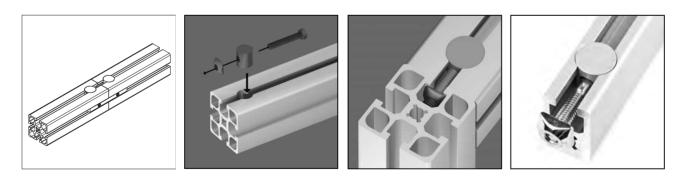
For rectangular connection of profiles

- Subsequent mounting of profiles into existing frames.
- Adjustable
- Extension of profiles

Processing

Step drilling Ø 7 / Ø 20 mm, resp. Ø 9 / Ø 15 mm depth: 16 mm, position: middle of the groove, 20 mm from profile end. Use drilling jig for positioning.

- 1 Insert hex screw M8 x 35 in bolt and if possible preassemble square nut into second profile
- 2 Insert bolt in step drilling and connect with square nut.
- **3** Pretighten with ball-headed key 5 A/F. Final thightening with L-key 5 A/F.
- Recommended locking torque: 15 Nm
- Static load: 3500 N



NAME	PART NO.	DESCRIPTION
Bolt fastener 15	21.1024/0	For profile series 32 and narrow side 19
DUIL TASLETIER TS	21.1024/0	9x15 stepped bore, 16 mm deep, 22.5 mm from the end of profile
Polt factoriar 20	Bolt fastener 20 21.1021/0	For profile series 45
Doit lasteller 20		7x20 stepped bore, 16 mm deep, 22.5 mm from the end of profile
Butt fastener 20	21 1020/0	For profile series 45
Butt fastener 20 21.10	21.1020/0	7x20 stepped bore, 16 mm deep, 22.5 mm from both ends of profile



Drilling jig part no. 26.1092/0 for correct position of the stepped bore

SCREW CONNECTION

FORM-LOCKING CONNECTIONS WHICH MUST BE SECURED AGAINST DISLOCATION.



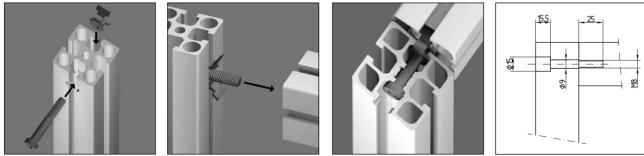


Application
Constructions with high dynamic loads

Processing

Thread M8; step drilling Ø 9 /Ø 15 mm with drilling jig Part no. 26.1092/0 for insert screw M8 x 50

- Position anti-twist lock in the groove
- Push the screw through anti-twist lock
- Screw in and tighten the screw into threaded connection profile
- Recommended locking torque: 20 Nm
- Static load: 18000 N



Stepped bore



Drilling jig part no. 26.1092/0 for correct position of stepped bore

MOUNTING ANGLES

EASY INSTALLATION WITHOUT MACHINING

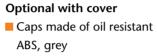


Angle aluminum die casting, powder coated, grey No processing

retrofitting of profiles possible

adjustable









ESD versionwithout powder coatingwith ESD square nuts Z

Assembly

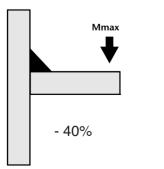
Use mounting material from fastening kit.

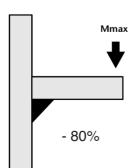
LOAD CAPACITY

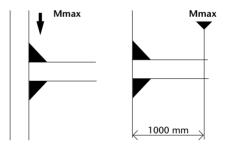
ANGLE	NUMBER OF	Mmax	Mmax
ANGLE	SCREWS	(N)	(Nm)
Angle 19	2	3.600	280
Angle 25	2	3.600	280
Angle 45	2	3.600	280
Angle 45x90	4	7.200	560
Angle 90	8	14.400	1.120

All values include double safety.

These values are valid only for angles mounted in pairs If used one-sided, the load reduces as follows:

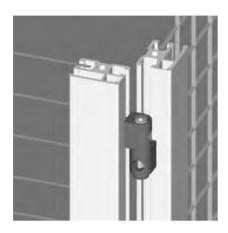




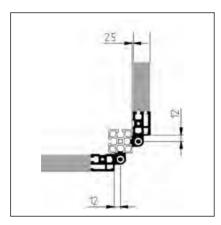


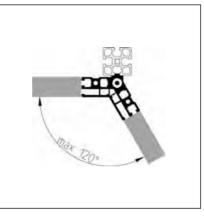
PROTECTIVE FIELD SUSPENSION, ADJUSTABLE ANGLE

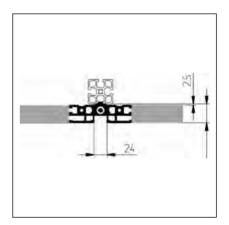
CONNECTING PROTECTION FIELDS

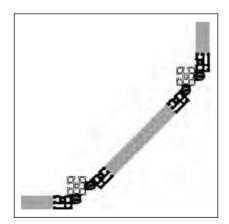


MOUNTING POSSIBILITIES









SCREWS

OTHER STANDARDS AND DIMENSIONS ARE AVAILABLE ON REQUEST

CYLINDRICAL SCREWS

M8 with flat head and hexagon socket



THREAD	GALVANIZED	STAINLESS
M08 x 12	21.1264/0	
M08 x 16	21.1200/0	21.1200/1
M08 x 18	21.1268/0	
M08 x 20	21.1202/0	21.1202/2
M08 x 22	21.1280/0	21.2017/0
M08 x 24	21.1269/0	
M08 x 25	21.1204/0	21.1204/1
M08 x 30	21.1206/0	21.1206/1
M08 x 35	21.1208/0	21.1208/1
M08 x 40	21.1210/0	21.1210/1
M08 x 45	21.1211/0	
M08 x 50	21.1212/0	21.1212/1
M08 x 55	21.1877/0	
M08 x 60	21.1214/0	
M08 x 65	21.1299/0	
M08 x 70	21.1282/0	
M08 x 75	21.1392/0	
M08 x 80	21.1225/0	
M08 x 90	21.1226/0	
M08 x 100	21.1662/0	

M6 with flat head and hexagon socket

	_	
THREAD	GALVANIZED	STAINLESS
M06 x 12	21.1143/0	21.1143/1
M06 x 14	21.1367/0	
M06 x 16	21.1238/0	21.1238/1
M06 x 18	21.1239/0	
M06 x 20	21.1240/0	21.1340/1
M06 x 22	21.1265/0	
M06 x 25	21.1242/0	21.1242/1
M06 x 30	21.1243/0	21.1243/1
M06 x 35	21.1245/0	21.1693/0
M06 x 40	21.1247/0	21.1247/1
M06 x 45	21.1172/0	
M06 x 50	21.1171/0	21.1171/1
M06 x 55	21.1248/0	21.1248/1
M06 x 60	21.1154/0	
M06 x 65	21.1868/0	
M06 x 70	21.1591/0	

M5 with flat head and hexagon socket

THREAD	GALVANIZED	STAINLESS
M05 x 08	21.1193/0	
M05 x 10	21.1279/0	
M05 x 12	21.1220/0	21.1220/1
M05 x 16	21.1235/0	
M05 x 20	21.1222/0	
M05 x 25	21.1224/0	21.1224/1
M05 x 30	21.1237/0	21.1237/1
M05 x 35	21.2195/0	
M05 x 40	21.1284/0	21.1284/1
M05 x 45	21.1219/0	
M05 x 50	21.1691/0	
M05 x 55	21.1353/0	

COUNTERSUNK SCREWS

M8 with hexagon socket		
THREAD	GALVANIZED	STAINLESS
M08 x 10	21.1552/0	21.1550/0
M08 x 12	21.1263/0	
M08 x 16	21.1513/0	21.1513/1
M08 x 20	21.1514/0	21.1514/1
M08 x 25	21.1520/0	
M08 x 30	21.1516/0	
M08 x 35	21.1947/0	
M08 x 40	21.1547/0	
M08 x 45	21.1645/0	
M08 x 50	21.1517/0	21.1517/1
M08 x 55	21.1546/0	
M08 x 60	21.1523/0	
M08 x 65	21.1949/0	
M08 x 70	21.1950/0	
M08 x 90	21.1946/0	

M6 with hexagon socket

THREAD	GALVANIZED	STAINLESS
M06 x 10	21.2219/0	21.2219/1
M06 x 12	21.1518/0	
M06 x 16	21.1506/0	21.1506/1
M06 x 20	21.1507/0	
M06 x 25	21.1566/0	
M06 x 30	21.1508/0	
M06 x 35	21.1509/0	
M06 x 40	21.1510/0	
M06 x 45	21.1951/0	
M06 x 50		21.2236/1
M06 x 55	21.1511/0	
M06 x 60	21.1512/0	
M06 x 65	21.2156/0	
M06 x 70	21.2134/0	

M5 with hexagon socket

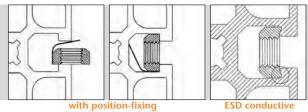
THREAD	GALVANIZED	STAINLESS
M05 x 10	21.1532/0	
M05 x 12	21.1543/0	21.1595/0
M05 x 14	21.1519/0	
M05 x 16	21.1503/0	21.1503/1
M05 x 18	21.1537/0	
M05 x 20	21.1504/0	
M05 x 25	21.1505/0	
M05 x 30	21.1482/0	
M05 x 35	21.2215/0	
M05 x 40	21.2127/0	
M05 x 45	21.1945/0	21.1945/1
M05 x 50	21.2123/0	

M4 with hexagon socket

THREAD	GALVANIZED	STAINLESS
M04 x 08	21.1500/0	
M04 x 10	21.1557/0	
M04 x 12	21.1948/0	
M04 x 16	21.1501/0	21.1501/1
M04 x 20	21.1502/0	
M04 x 25	21.1571/0	
M04 x 30	21.1203/0	

SQUARE NUTS, RHOMBUS NUTS AND SQUARE WASHERS

AVAILABLE FOR M3, M4, M5, M6 AND M8



Square nuts can be pivoted at any point in the profile. When used in the vertical profile apply square nut with position-fixing. Can be pivoted like the standard square nut; the position-fixing holds the nut in the desired position.

Use square nuts M6 and M8 Z for ESD applications.



THREAD	GALVANIZED	STAINLESS
M8	21.1334/0	-

Screws for mounting surface elements

Flat head screw	GALVANIZED	STAINLESS
M06 x 12	21.2074/0	-
M06 x 16	21.1246/0	-
M06 x 20	21.1246/1	-



Square nut M5 for profile series MINI THREAD GALVANIZED STAINLESS

		-
M5 x 08	21.1382/0	

Square nut 30 with position-fixing

		-
THREAD	GALVANIZED	STAINLESS
M8	21.1570/0	-
M6	21.1569/0	-
M5	21.1568/0	-
M4	21.1567/0	-



THREAD	GALVANIZED	STAINLESS
M8	21.1351/0	21.1351/1
M6	21.1330/0	21.1330/1
M5	21.1320/0	21.1320/1
M4	21.1310/0	21.1310/1
M3	21.1309/0	21.1309/1



Square nuts with position-fixing

THREAD	GALVANIZED	STAINLESS
M8	21.1351/2	21.1351/4
M6	21.1330/2	21.1330/4
M5	21.1320/2	21.1320/4
M4	21.1310/2	21.1310/4
M3	21.1309/2	21.1309/4



nut Z. ESD conductive

quare nut z, ESD conductive		
THREAD	GALVANIZED	STAINLESS
M8	21.1390/0	-
M6	21.1391/0	-
M5	21.1627/0	-

Square nut 7 with position-fixing, ESD conductive

square nut 2 with position-fixing, ESD conductive		
THREAD	GALVANIZED	STAINLESS
M8	21.1390/2	-
M6	21.1391/2	-
M5	21.1627/2	-



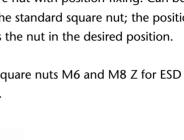
SPECIAL SCREWS

Screws for power-lock fasteners

Fillister head screw	GALVANIZED	STAINLESS
M08 x 25	21.1189/0	-
M08 x 25 SF*	21.1492/0	-
self-tapping thread		

Screws for end caps VA/AL/LR

Flat head screw	GALVA- NIZED	STAINLESS
M08 x 10	-	21.1666/0



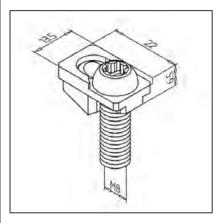




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POWER-LOCK FASTENER 30 SF



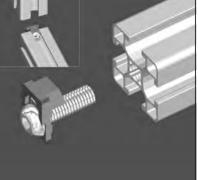


APPLICATIONS

- Power-lock connection of profiles series 30

- Also suitable for cross joints

part no. 21.0016/0



ASSEMBLY

- Mount fastener by hand onto profile face with torx wrench T40

- Tighten set screw M8 with key A/F 4

- Recommended locking torque: 12 Nm

TECHN. DATA / ITEMS SUPPLIED

- Connecting element steel, zinc plated, chromated

- Self tapping torx screw T40

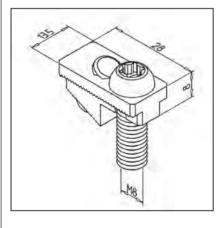
- Weight

- Power-Lock fastener 30 (standard) part no. 21.1014/0 with filister head screw A/F 5

- Power-Lock fastener 30 SF ESD part no. 21.0037/0 with self - threading torx screw

POWER-LOCK FASTENER 45 SF

0,020 kg



TECHN. DATA / ITEMS SUPPLIED

- Connecting element steel, zinc plated, chromated

- 1 self tapping screw M8 x 25, galvanized

- Weight

- Power-Lock fastener 45 (standard) part no. 21.1018/0 with filister head screw A/F 5

0,029 kg

- Power-Lock fastener 45 H - stainless version part no. 21.1018/1 with cylinder head screw A/F 5

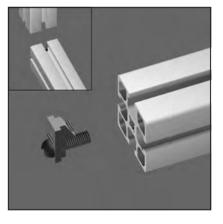


APPLICATIONS

- Power-lock connection for all profiles, also suitable for crossjoints

- For larger profile sections several fasteners can be used

- part no. 21.1018/0 and 21.0818/0 suitable for ESD applications



part no. 21.0818/0

ASSEMBLY

- Mount fastener by hand onto profile face with torx wrench T40

- Tighten set screw M8 with key A/F 4

- Recommended locking torque 12 Nm

part no. 21.0020/0

POWER-LOCK FASTENER 45 SF SHORT

Real Property of the second se

TECHN. DATA / ITEMS SUPPLIED

- 1 connecting element steel, zinc plated,

- 1 fillister head screw M8 x 25

chromated

- Weight



APPLICATIONS

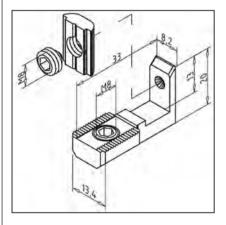
- For the Assembly of profiles with flush end cap

ASSEMBLY

- Mount fastener by hand onto profileface with torx wrench T40
- Tighten set screw M8 with key A/F 4
- Recommended locking torque 12 Nm

POWER-LOCK FASTENER N 30

0,028 kg



TECHN. DATA / ITEMS SUPPLIED

- 1 connecting element steel, zinc plated, chromated,

with set screw M8

- 1 square nut M8 with pre-mounted screw

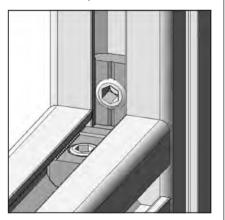
- Weight

0,025 kg



APPLICATIONS

- Power-lock connection of profiles series 30
- Particularly for subsequent insertion of profiles into existing frames



part no. 21.0033/0

ASSEMBLY

- Set profile with fastener in required position
- Slide square nut over the L-shape end of the fastener and tighten it

- Tighten set screw of fastener

- Recommended torque for both set screws: 10 Nm

POWER-LOCK FASTENER N 45

TECHN. DATA / ITEMS SUPPLIED

0,036 kg/m

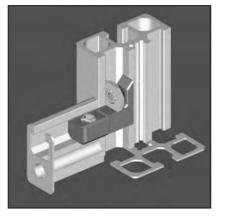
- 1 connecting element steel, zinc plated,

chromated,

- Weight

with set screw M8 x 10

- 1 Nut M8 with set screw M8 x 08



APPLICATIONS

- Connects to all types of profiles

- Particularly for subsequent insertion of profiles into existing frames
- For profile sections bigger than 45 x 45 several fasteners can be used

part no. 21.0918/0

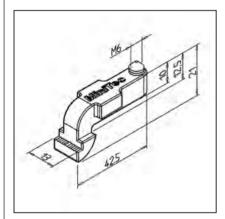
ASSEMBLY

- Set profile with fasteners in required position
- Slide nut M8 over the L-shape end of the fastener and tighten with hex-key 4 A/F

- Tighten set screw M8 x 10 of fastener

 Recommended torque for both screws: 10 Nm

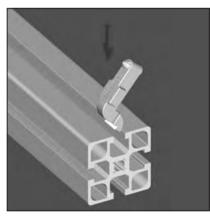
CROSS-CONNECTOR 45



TECHN. DATA / ITEMS SUPPLIED

- 1 connecting element, steel, zinc plated, chromated, with preassembled set screw M6 x 16

0,035 kg

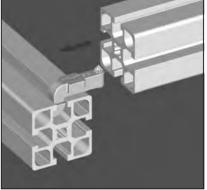


APPLICATIONS

- For connecting all types of profile

- Particularly for subsequent insertion profiles into existing constructions
- For profile sections bigger than 45 x 45 several fasteners can be used
- Suitable for ESD applications

part no. 21.0006/0



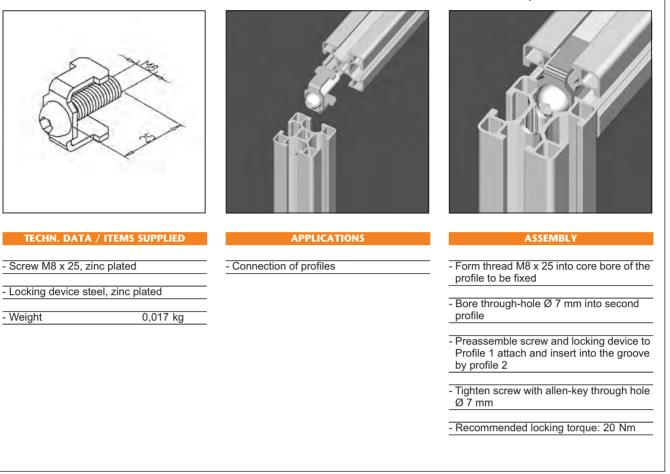
ASSEMBLY

- Swivel the connector into the existing frame
- Push the new profile over the connector
- Tighten set screw in connector with wrench size 3 to 10 Nm torque

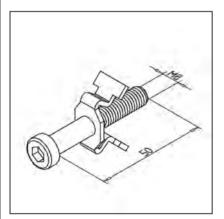
- Weight

SCREW-CONNECTION 30 N

part no. 21.1385/0



SCREW CONNECTION 45



TECHN. DATA / ITEMS SUPPLIED

- Hex socket cap screw M8 x 50, zinc plated

- Locking device: steel, zinc plated

- Weight 0,027 kg



APPLICATIONS

 Profile connections which must be secured against dislocation

- Secure connection all types of profiles

part no. 21.1017/0

ASSEMBLY

- From thread M8 x 25 into profile to be fixed
- Bore step-drilling Ø 9 x 15 at the position of required connection
- Insert the locking device into the groove and put the screw through the bore of the element
- Tighten the screw
- Recommended locking torque: 20 Nm

- see page 70

SCREW CONNECTION 32

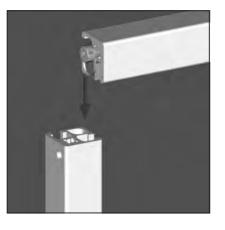
TECHN. DATA / ITEMS SUPPLIED

0,015 kg

- Hex socket cap screw M8 x 25

- Anti-rotation device AL GD

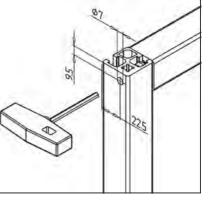
- Weight



APPLICATION

- Connection with effective anti-rotation function for profile series 32 and 19

part no. 21.1386/0

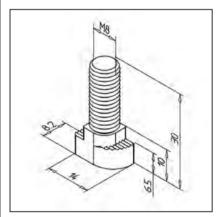


ASSEMBLY

- Form a thread M8 with thread former

- Drill a through hole bore Ø 7 in profile 2
- Insert the anti-rotation device in profile 1 and connect with profile 2
- Tighten the screw with recommended locking torque: 20 Nm

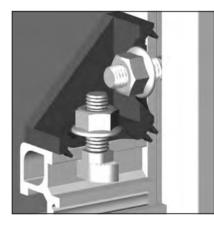
HAMMER HEAD SCREW



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

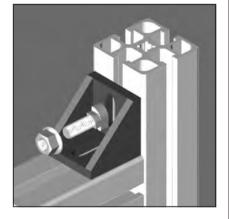
- Weight 0,013 kg



APPLICATIONS

- Simple attachment of add-on parts or accessories on profiles

- Attachment of mounting angle 45 GD 45 x 90 GD-Z part no. 21.1397/0 45 GD part no. 21.1133/0 45 GD-Z part no. 21.1349/0 90 GD-Z part no. 21.0978/0



part no. 21.1370/0

ASSEMBLY

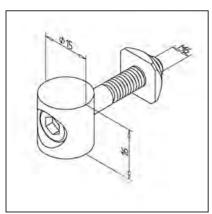
- Insert hammer head screw into profile groove, tighten nut M8

- When tightening the nut, the hammer head will turn crosswise

- Recommended nut:

Self-locking flange hex nut part no. 21.1334/0

BOLT-FASTENER 15



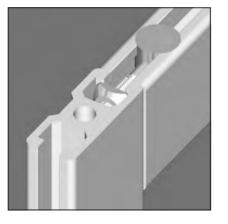
TECHN. DATA / ITEMS SUPPLIED

0,032 kg

- 1 bolt aluminium

- Fastening kit

- Weight

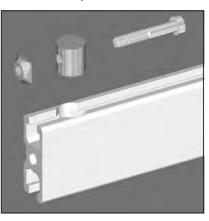


APPLICATIONS

- For connection of profiles 19 and 32

- Particularly for subsequent insertion into existing constructions

part no. 21.1024/0



ASSEMBLY

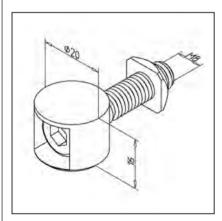
- Step drilling Ø 9 x 15, depth 16 mm, positioned 22,5 mm from profile end to the middle of the groove
- Insert the bolt into the step drilling and pretighten by using ball-headed key 4 A/F

- Final tightening with L-key

- Recommended locking torque: 15 Nm

- See page 68

BOLT-FASTENER 20



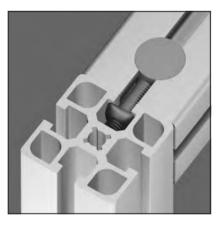
TECHN. DATA / ITEMS SUPPLIED

0,036 kg

- 1 Bolt GD- Zn

- Fastening kit

- Weight



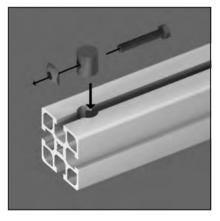
APPLICATIONS

- For connection of all types of profiles

 Particularly for subsequent insertion into existing constructions

- For connection of profile 45 x 19

part no. 21.1021/0



ASSEMBLY

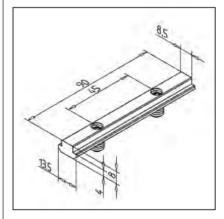
- Step drilling Ø 7 x 20 depth 16 mm, positioned 22,5 mm from profile end to the middle of the groove
- Insert the bolt into the step drilling and pretighten by using ball-headed key 5 A/F

- Final tightening with L-key

- Recommended locking torque: 15 Nm
- See page 68

BUTT FASTENER part no. 21.1020/0 \$20 TECHN. DATA / ITEMS SUPPLIED - 2 Bolts GD - Zn - Profile extension - Step drilling Ø 7 x 20 depth 16 mm, positioned 22,5 mm from profile end to the - Fastening kit - Butt connector middle of the groove - Insert the fastener and pretighten the - Weight 0,056 kg screw with a ball-headed key 5 A/F - Final tightening with L-key - Recommended tightening torque 15 Nm - See page 69

T-SLOT BAR 90



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

- 2 set screws M8 x 14, 4 A/F, zinc plated

0,062 kg

- Weight

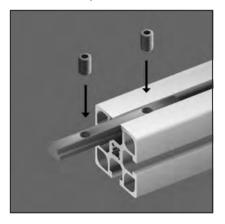
- Stainless version part no. 21.0992/0



APPLICATIONS

- Profile extension

- Fixing of bearings for linear guides



part no. 21.1029/0

ASSEMBLY

- Insertion into the profile groove

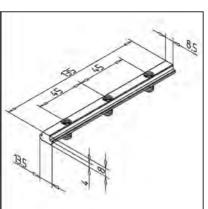
- Clamp with set screw

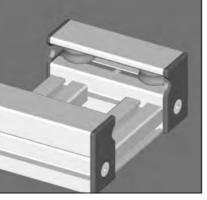
- No processing required

- For larger profiles or heavy-duty applications use multiple t-slot bars

part no. 21.0988/0

T-SLOT BAR 135





APPLICATIONS

- Fixing of bearings in standard slide LW

TECHN. DATA / ITEMS SUPPLIED

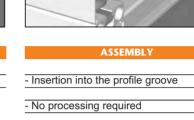
- Steel, zinc plated

- 3 set screws M8 x 14, 4 A/F, zinc plated

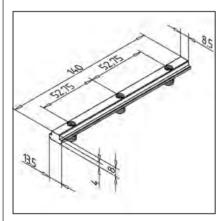
0,094 kg

- Weight

- Stainless version part no. 21.0987/0



T-SLOT BAR 140



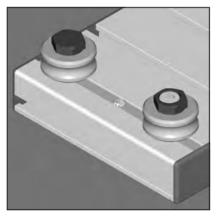
TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

- 3 set screws M8 with hexagonal A/F 4, zinc plated

- Weight 0,096 kg

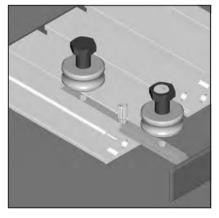
- Stainless version part no. 28.0030/0



APPLICATIONS

- Fixing of bearings in linear slides LW 32 E

part no. 28.0026/0



ASSEMBLY

- Insertion into the profile groove

- No processing required

T-SLOT BAR 180

TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

zinc plated

- Weight



APPLICATIONS

- Face fastening of profiles or ready-for-use elements

- Profile extension

- Fixing of bearings for linear guides

T	

part no. 21.1101/0

ASSEMBLY

- Insertion into the profile groove

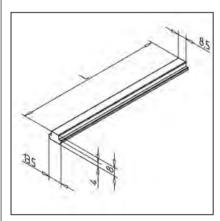
- No processing required
- For larger profiles or heavy duty applications use multiple t-slot bars

- Stainless version part no. 21.0986/0

- 4 set screws M8 with hexagonal A/F 4,

0,125 kg

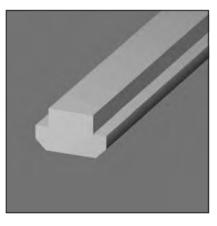
T-SLOT BAR PROFILE



TECHN. DATA / ITEMS SUPPLIED

- Steel, plain	
- Weight	0,650 kg/m
- Length	3 m

- Stainless version part no. 21.1030/1



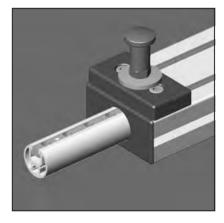
APPLICATIONS

- Production of clamping ledges, connecting elements for special lengths

- Production of reinforcing elements

- Ledges with special perforation

part no. 21.1030/0



ASSEMBLY

- Insertion into the profile groove

84 MINITEC PROFILE SYSTEM

part no. 21.0945/0

MITRE CONNECTOR N 30

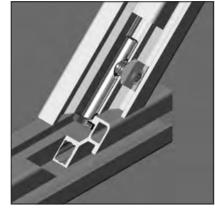
TECHN. DATA / ITEMS SUPPLIED

0,022 kg

- Steel, zinc plated

- Fastening kit

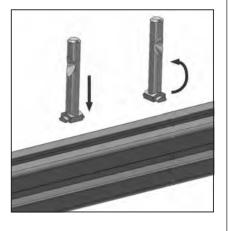
- Weight



APPLICATIONS

- Mitre connection of profiles on profile groove

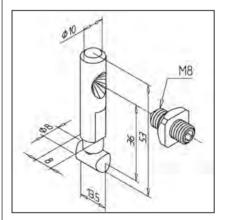
- For subsequent fitting in the groove



ASSEMBLY

- Insert mitre connector N 30 into groove and core bore
- Use drilling jig for mitre connector N30 part no. 26.1056/0

MITRE CONNECTOR N 45



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

Fastening kit

- Weight 0,035 kg

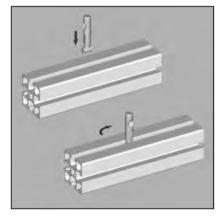


APPLICATIONS

- Mitre connection of profiles on profile groove

- For subsequent fitting in the groove

part no. 21.1401/0

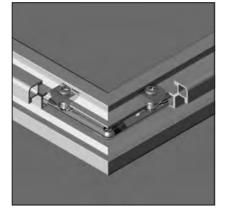


ASSEMBLY

- Drill Ø 10,2 mm bore in the profile core bore
- Alternatively use drilling jig for mitre connector N 45 part no. 26.1060/0 597

- see page 597

MITRE CONNECTOR 30



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

- Fastening kit

- Weight 0,040 kg

APPLICATIONS
Show cases
Exhibition racks
Displays
Frames

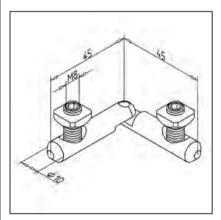
part no. 21.1890/0

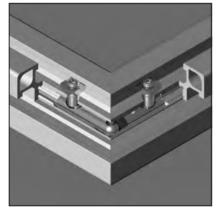
AJJENDET

- Insert mitre connector 30 into both profile ends
- Position square nuts on top of the thread M8; tighten the connector with set screws M8
- Use drilling jig for mitre connector 30 part no. 26.1063/0

- see page 597

MITRE CONNECTOR 45





TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

- Fastening kit

- Weight 0,065 kg

APPLICATIONS

- Show cases
- Exhibition racks
- Displays

- Frames

part no. 21.1400/0

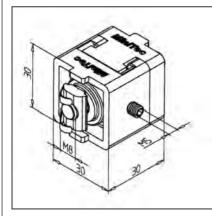


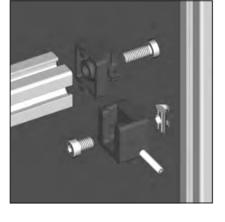
ASSEMBLY

- Insert the mitre connector into both profile ends
- Position square nuts on top of the thread M8; tighten the connector with set screws M8
- Alternatively use drilling jig for mitre connector 45 part no. 26.1050/0 see page 597

MOUNTING BRACKET 30

part no. 21.2068/0





TECHN. DATA / ITEMS SUPPLIED

- Polyamide, grey

- Fastening kit, unilateral for cross-tie and upright piece

0,041 kg

- Weight

APPLICATIONS

- Connection of profiles

- For subsequent insertion of profiles into existing constructions, relocatable in direction of the groove

- Removable attachments

|--|

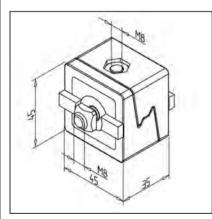
ASSEMBLY

- Use fastening kit

- Insert cross-tie profile into T-solt

- For adjustment use set screw M5

MOUNTING BRACKET 45



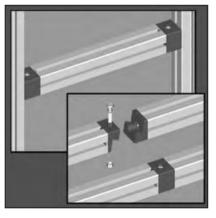
TECHN. DATA / ITEMS SUPPLIED

0,428 kg

- GD- Zn, powder coated, grey

- Fastening kit

- Weight



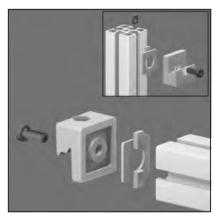
APPLICATIONS

- Connection of profiles

- For subsequent insertion of profiles into existing constructions, relocatable in direction of the groove

- Fixing of support surfaces

- Removable attachments



part no. 21.1411/0

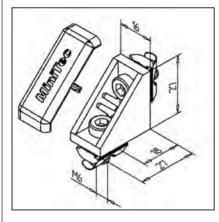
ASSEMBLY

- Use fastening kit

- In case of mounting into vertical profiles, the use of square-nut M8 with positionfixing **part no. 21.1351/2** is recommended

- Recommended locking torque: 20 Nm

ANGLE 16 GD-Z



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit

- Conductive version part no. 21.2077/6

0,038 kg

- Weight



APPLICATIONS

 Constructions made from profile series 16 or 23, subsequent insertion of profiles or components into existing constructions

- Fixing of panels, table-tops

- Reinforcement of constructions made from profile series 16 or 23

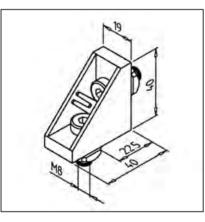


part no. 21.2077/0

ASSEMBLY

- Use fastening kit
- Recommended locking torque: 8 Nm
- Suitable end cap MW 16 GD-Z, grey: part no. 22.1138/1

ANGLE 19 GD-Z



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit

- Conductive version part no. 21.2078/6

0,055 kg

- Weight



APPLICATIONS

- Connection of profiles 19 and 32

 For subsequent insertion of profiles into existing constructions, relocatable in direction of the groove

- Fixing of bearing surfaces

part no. 21.2078/0



ASSEMBLY

- Use fastening kit

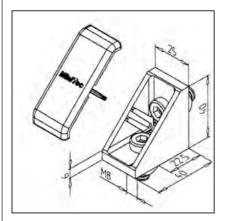
- In case of mounting into vertical profiles, use of square-nut M8 with position-fixing, part no. 21.1351/2

- Suitable end-cap MW 19 GD-Z, grey part no. 22.1139/1

- Recommended locking torque: 20 Nm

part no. 21.0969/0

ANGLE 25 GD-Z



TECHN. DATA / ITEMS SUPPLIED

- Conductive version part no. 21.0969/6

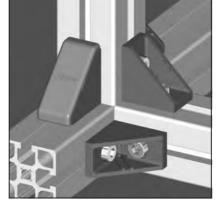
0,066 kg

- Aluminium GD, powder coated, grey

- Removable centering tabs

- Fastening kit

- Weight



- General constructions, particularly for subsequent insertion of profiles into existing constructions

- Fixing of panel elements, table tops

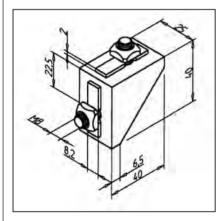
- Strengthening of profile constructions

ASSEMBLY

- Use fastening kit
- If non-aligning grooves, break centering tabs with pliers
- For subsequent mounting into vertical profiles use square nut M8 with positionfixing part no. 21.1351/2
- End cap MW 25 GD-Z
- part no. 22.0997/1

- Recommended locking torque: 20 Nm

ANGLE 25 S



TECHN. DATA / ITEMS SUPPLIED

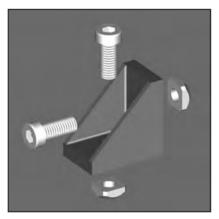
- Aluminium GD, powder coated, grey
- Locking device against torsion

- Fastening kit

- Conductive version part no. 21.1134/6

0,066 kg

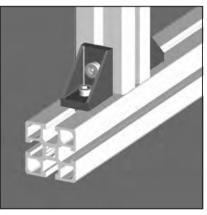
- Weight



APPLICATIONS

- General constructions, particularly for subsequent insertion of profiles into existing constructions

- Strengthening of profile connections



ASSEMBLY

- Use fastening kit

- For mounting into vertical profile use square nut M8 with position-fixing part no. 21.1351/2

- Recommended locking torque 20 Nm

part no. 21.1134/0

ANGLE 30 GD

A CONTRACTOR

TECHN. DATA / ITEMS SUPPLIED

- Conductive version part no. 21.1347/6

0,053 kg

- Aluminium GD, powder coated, grey

- Fastening kit

- Weight

APPLICATIONS

 Constructions made from profile series 30, subsequent insertion of profiles or components into existing constructions

- Fixing of panels, table-tops

- Reinforcement of constructions made from profiles series 30

part no. 21.1347/0

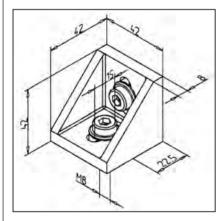
ASSEMBLY

- Use fastening kit

- Recommended locking torque: 8 Nm

- Suitable end cap MW 30 GD-Z, grey: part no. 22.1026/1

ANGLE 45 GD



TECHN. DATA / ITEMS SUPPLIED

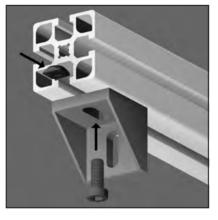
- Aluminium GD, powder coated, grey

- Fastening kit

- Conductive version part no. 21.1133/6

0,114 kg

- Weight



APPLICATIONS

- General constructions, particularly for subsequent insertion of profiles into existing constructions

- Fixing of panel elements, table tops

- Strengthening of profile constructions

part no. 21.1133/0



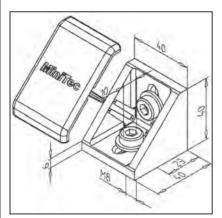
ASSEMBLY

- Use fastening kit

- For subsequent mounting into vertical profiles use square nut M8 with position-fixing part no. 21.1351/2
- Hammer head screw part no. 21.1370/0 can be used
- Recommended locking torque 20 Nm

part no. 21.1349/0

ANGLE 45 GD-Z



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

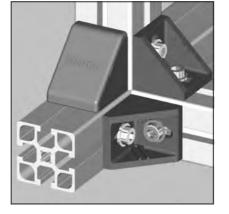
- Conductive version part no. 21.1349/8

0,086 kg

- Removable centering tabs

- Fastening kit

- Weight



- General constructions, particularly for subsequent insertion of profiles into existing constructions

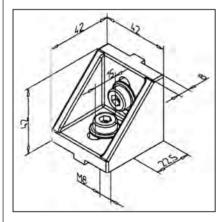
- Fixing of panel elements, table tops

- Strengthening of profile constructions

ASSEMBLY

- Use fastening kitIf non-aligning grooves, break centering tabs with pliers
- For subsequent mounting into vertical profiles use square nut M8 with positionfixing part no. 21.1351/2
- Use hammer head screw
- part no. 21.1370/0
- Recommended locking torque: 20 Nm
- End cap MW 45 GD-Z
- part no. 22.1024/1

ANGLE 45 VA

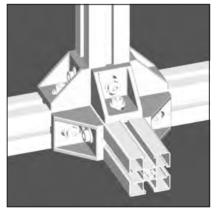


TECHN. DATA / ITEMS SUPPLIED

- Material: WN DIN 1.4301 X5 CR NI 18 -10, SUS 304, stainless steel

- Fastening kit

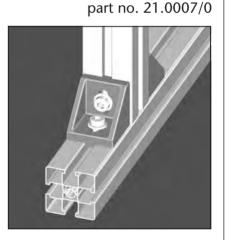
0,255 kg - Weight



APPLICATIONS

- General constructions, particularly suitable for subsequent insertion of profiles into existing constructions

- Strengthening of profile constructions



ASSEMBLY

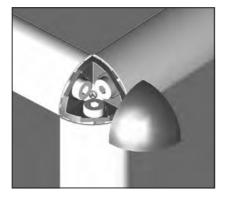
- Use fastening kit

- For subsequent mounting into vertical profiles use square nut M8 with position fixing part no. 21.1351/4

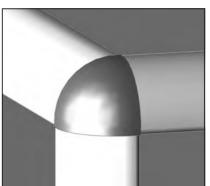
- Recommended locking torque 20 Nm

MINITEC PROFILE SYSTEM 91

ANGLE 30 R 90°



part no. 21.2109/0



TECHN. DATA / ITEMS SUPPLIED

0,043 kg

- Aluminium GD, nature

- End cap MW 30 R 90°, grey, part no. 22.1143/1

•

Fastening kit

- Weight

	1	٩F	P	Ц	CA	T	01	٩S	
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- Corner fastening of profiles 30 R 90°

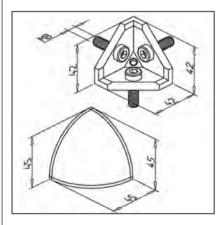
- Constructions for show cases, tables etc.

ASSEMBLY

- With mounting material from scope of supply in central drilling of the profile

- Clip on end cap

ANGLE 45 R 90°



TECHN. DATA / ITEMS SUPPLIED

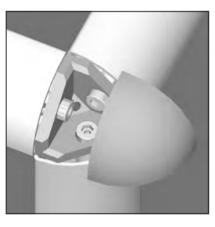
- Aluminium GD, nature

- End cap MW 45 R 90°, grey, **part no.** 22.1033/1

- Fastening kit

- Weight

0,098 kg

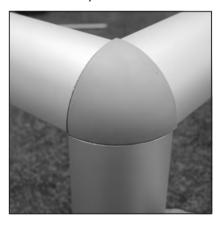


APPLICATIONS

- Corner fastening of profiles 45 R 90°

- Constructions for show cases, tables etc.

part no. 21.1710/1



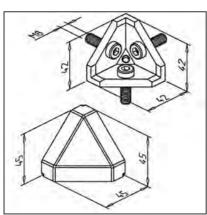
ASSEMBLY

- With mounting material from scope of supply in central drilling of the profile

- Clip into the end cap

part no. 21.1708/1

ANGLE 45°



TECHN. DATA / ITEMS SUPPLIED

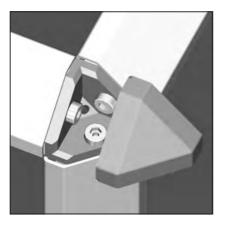
0,107 kg

- Aluminium GD, nature

- End cap 45°/3, grey

- Fastening kit

- Weight



APPLICATIONS

- Corner fastening of profiles 45 / 45°

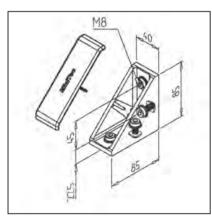
- Constructions for show cases, tables etc.

ASSEMBLY

- With mounting material from scope of supply in central drilling of the profile

- Clip into the end cap

ANGLE 45 X 90 GD-Z



TECHN. DATA / ITEMS SUPPLIED

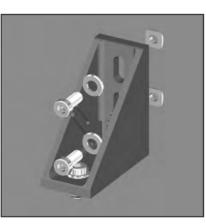
- Aluminium GD, powder coated, grey

- Fastening kit

- Weight

- Conductive version part no. 21.1397/6

0,281 kg



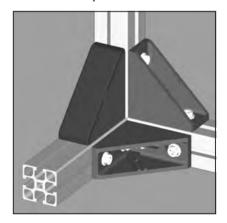
APPLICATIONS

- General constructions, particularly for subsequent insertion of profiles into existing constructions

- Fixing of panel elements, table tops

- Strengthening of profile constructions

part no. 21.1397/0



ASSEMBLY

- Use fastening kit

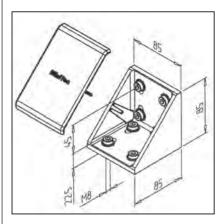
- For mounting into vertical profile use square nut M8 with position-fixing part no. 21.1351/2

- Recommended locking torque: 20 Nm

- Use hammer head screw part no. 21.1370/0

- Suitable end cap MW 45 x 90 GD-Z part no. 22.0998/1

ANGLE 90 GD-Z



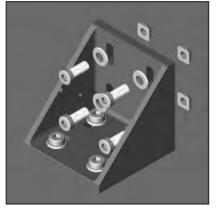
TECHN, DATA / ITEMS SUPPLIED

- Conductive version part no. 21.0978/6

- Aluminium GD, powder coated, grey

- Fastening kit

- Weight



APPLICATIONS

- For profiles 90 and 180

- General constructions, particularly for subsequent insertion of profiles into existing constructions

- Strengthening of all profile connections

part no. 21.0978/0

ASSEMBLY

- Use fastening kit

- For subsequent mounting into vertical profiles use square nut M8 with position-fixing **part no. 21.1351/2**

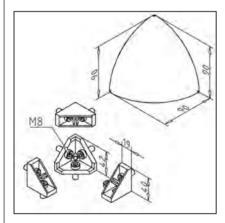
- Hammer head screw can be used

- Recommended locking torque: 20 Nm

- Suitable end cap MW 90 GD-Z part no. 22.0999/1

CORNER CONNECTION 90 R 90°

0,497 kg



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD

 End cap MW 90 R 90°, grey, part no. 22.0980/1

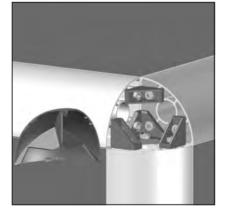
- Angle 45°, part no. 21.1708/2

- Angle 19 GD-Z, part no. 21.2078/2

0,267 kg

- Fastening kit

- Weight



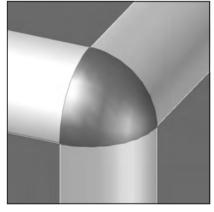
APPLICATIONS

- Corner connections of profiles 90 R 90°

- Constructions for show cases, tables etc.

etc. - Clip into the end cap

part no. 21.2199/0

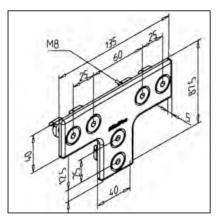


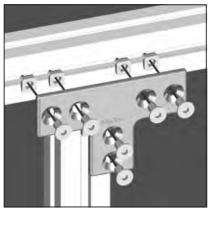
ASSEMBLY - Fasten with screws from the fastening kit

in central bore of the profile

part no. 21.0019/0

T-SHEET VA





APPLICATIONS

- Strenthening of profile constructions

00 00

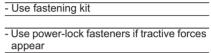
TECHN, DATA / ITEMS SUPPLIED

0,259 kg

- Sheet stainless steel

- Fastening kit

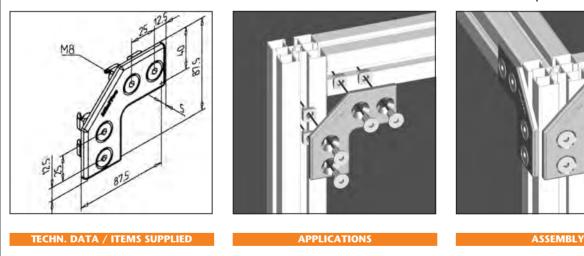
- Weight



ASSEMBLY

part no. 21.0018/0

0



- Use fastening kit

- Use power-lock fasteners if tractive forces appear

ANGLE-SHEET VA

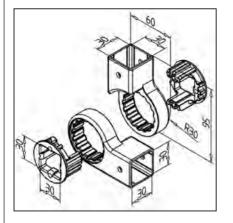
- Fastening kit

- Sheet stainless steel

- Weight 0,163 kg - Strengthening of profile constructions

- Also suitable for cross joints (double application)

MULTI CONNECTOR 30



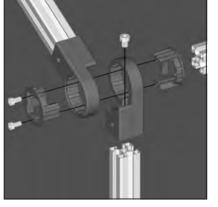
TECHN. DATA / ITEMS SUPPLIED

0,135 kg

- ABS, grey

- Weight

- Fastening kit



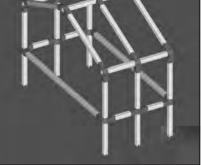
APPLICATIONS

- Easy connection for profiles

- Angle adjustable in 22,5° raster

1.17.

part no. 22.1140/0

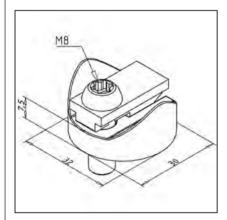


ASSEMBLY

- Attach swivel arm on face side of profile

- Insert socket from the side
- Insert other profile into socket and position it
- Secure it with 2 hex socket cap screws against movement

ADAPTER G32 / G32

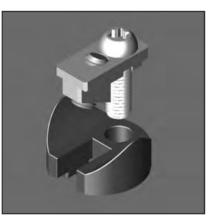


TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit

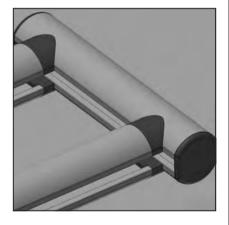
- Weight 0,041 kg



APPLICATIONS

- For connection of handle profile 32 with handle profile 32

part no. 21.0954/0

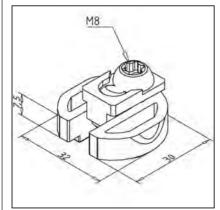


ASSEMBLY

- Screw on profile face and fasten with power-lock fastener
- Push in cross direction profile and attach it to the desired location

part no. 21.0955/0

ADAPTER G32 / 30 X 30



TECHN. DATA / ITEMS SUPPLIED

0,032 kg

- Aluminium GD, powder coated, grey

- Fastening kit

- Weight



APPLICATIONS

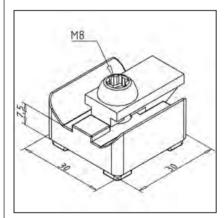
- For connection of handle profile 32 with profile 30 x 30

1 1 1 1 1 1 1 1 1	

ASSEMBLY

- Screw on profile face and fasten with power-lock fastener
- Push in cross direction profile and attach it to the desired location

ADAPTER 30 X 30 / G32



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit

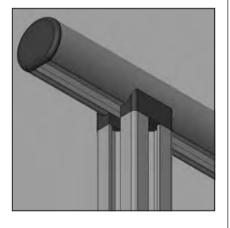
- Weight 0,046 kg



APPLICATIONS

- For connection of profile 30 x 30 with handle profile 32

part no. 21.0953/0



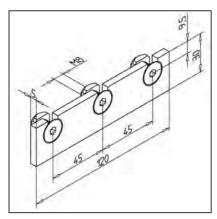
ASSEMBLY

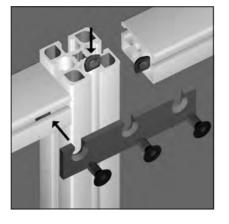
- Screw on profile face and fasten with power-lock fastener
- Push in cross direction profile and attach it to the desired location

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MINITEC PROFILE SYSTEM

CONNECTING BAR





TECHN. DATA / ITEMS SUPPLIED

- Bar steel, zinc plated

- Fastening kit

- Weight

APPLICATIONS

- Connection of different profiles

- Subsequent insertion of profiles into existing constructions

		6
-	8	
19		

part no. 21.1113/0

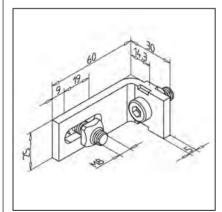
ASSEMBLY

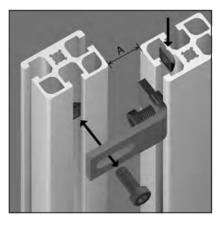
- Use fastening kit

- No processing required

GUARD UNIT FIXING ANGLE 45 ST

0,156 kg





TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

- Fastening kit

- Weight 0,103 kg

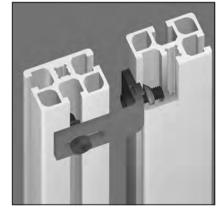
APPLICATIONS

- Fixing of guards made from profile 45 x 32

- Usable in frames made from any profile

- Flush mounting of element

part no. 21.1404/0



ASSEMBLY

- Use fastening kit

- No processing required

- First fix the angle to vertical profile, then screw guard unit from rear with angle

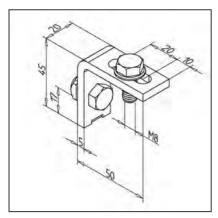
- A = 10 mm - 28 mm

A1

part no. 21.1399/0

77

GUARD UNIT FIXING ANGLE 19

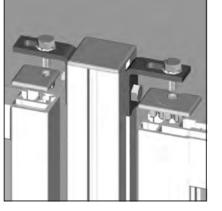


TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

- Fastening kit

- Weight



APPLICATIONS

- Fixing of guards made from clamp-profiles 32 x 32 or 45 x 32 or from all other standard profiles

- Fixing of guards at any angle

- For clamp profile 32 x 32 use end cap part no. 22.1032/3
- For clamp profile 45 x 32 use end cap part no. 22.1046/3

ASEMBLY

- Drill thread M8 x 20 in both ends of vertical profiles of the guard

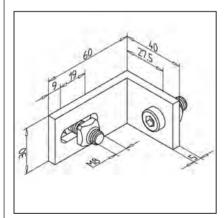
- Insert guard in angles, adjust position of the angles and fix it (wrench 13)

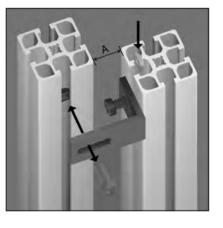
- Fix guard with screws of fastening kit

- Alternatively: use snap bolts 25 part no. 21.1758/0 in lower threads of the guard for very quick assembly, fixing with upper screws only
- A1 = 10,5 mm 30,5 mm A2 = 10,5 mm - 17,5 mm

GUARD UNIT FIXING ANGLE 45 AL

0,089 kg





TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural anodized

- Fastening kit

- Weight 0,067 kg

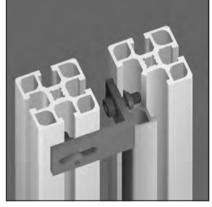
APPLICATIONS

- Fixing of frame-elements made from profile 45 x 45

- Usable in frames made from any profile

- Flush mounting of element

part no. 21.1407/0



ASSEMBLY

- Use fastening kit
- No processing required
- First fix the angle to vertical profile, then screw guard unit from rear with angle

- A = 10 mm - 28 mm

GUARD UNIT FIXING ANGLE GD-K

0,039 kg

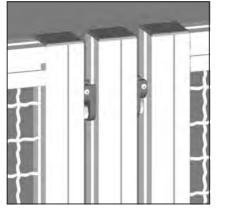
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TECHN, DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit

- Weight



APPLICATIONS

- Guards from all profiles

- Movable flaps

- It is also possible to mount the guards at the front when fitting the suspensions to the front of the post

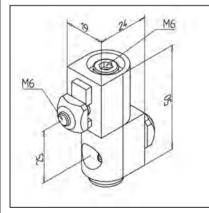
ASSEMBLY

- Screw the guard suspension to the pillars

- Attach M8 x 25 cheese-head screws to the protective panel
- Hang the guard in place, and tighten the set screw using an Allen key from the rear
- A = 16 mm ± 0.75

- Guard cannot be removed from outside

GUARD UNIT WITH ADJUSTABLE FIXING ANGLE



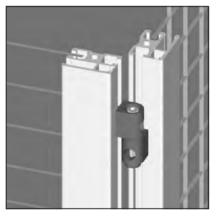
TECHN. DATA / ITEMS SUPPLIED

0,114 kg

- Aluminium GD, powder coated, grey

- Fastening kit

- Weight



APPLICATIONS

- Connection of profiles at any angle

- Erection of guard units at any angle

part no. 21.1403/0



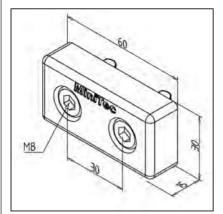
ASSEMBLY

- Mount the lower fixing half on the post and align it
- Mount the upper half on the guard unit and insert the guard unit
- Insert the cylinder head screw and tighten it with key 4 A/F. The inserted hexagon nut in the lower fixing half is secured against torsion

- See page 73

part no. 21.0008/0

CONNECTING PLATE 30 X 60



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit

- Weight

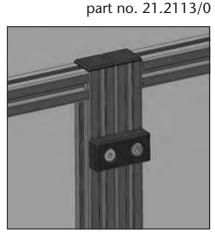


APPLICATIONS

- Connection of two guards without gap

- Strengthening of guard units

- Connection of premounted units or modules

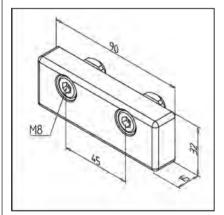


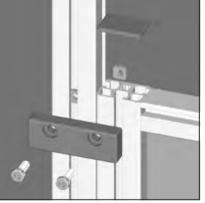
ASSEMBLY

- Use fastening kit; fasten on profile groove of save guard and pile

CONNECTING PLATE 90 X 32

0,085 kg





TECHN. DATA / ITEMS SUPPLIED

0,135 kg

- Aluminium GD, powder coated, grey

- Fastening kit

- Weight

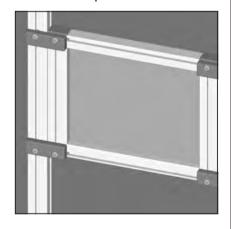


- Connection of two guards without gap

- Strengthening of guard units

- Connection of premounted units or modules

part no. 21.1346/0



ASSEMBLY

- Use fastening kit

CONNECTING PLATE 45 X 90

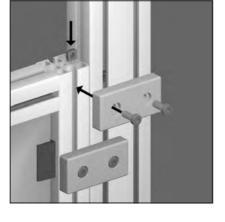
90 Ø M8 40

TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit

- Weight



APPLICATIONS

- Connection of guards without gap

- Strengthening of guard units

- Connection of premounted units or modules

part no. 21.1472/0

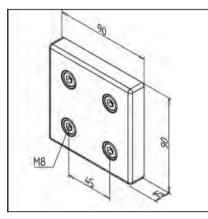


ASSEMBLY

- Use fastening kit

CONNECTING PLATE 90 X 90

0,181 kg

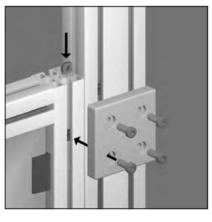


TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit

- Weight 0,366 kg



APPLICATIONS

- Connection of guards without gap

- Strengthening of guard units

- Connection of premounted units or modules

part no. 21.1473/0

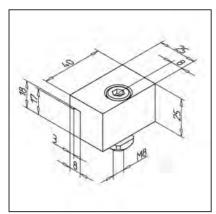


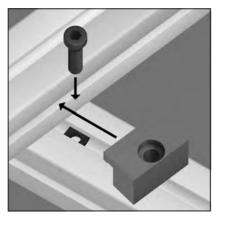
ASSEMBLY

- Use fastening kit

part no. 21.1027/0

CLAMPING CLAW





APPLICATIONS

- Parallel connection of profiles at various angles

ASSEMBLY

- Use fastening kit

- No processing required

TECHN. DATA / ITEMS SUPPLIED

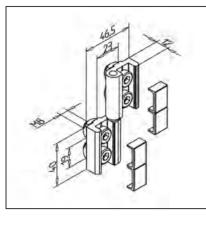
0,063 kg

- Aluminium anodized

- Fastening kit

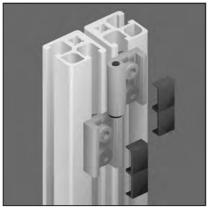
- Weight

HINGE 19



TECHN. DATA / ITEMS SUPPLIED

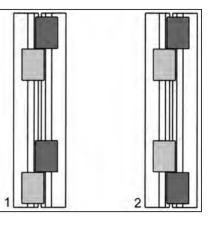
- Aluminium, natural anodized with stainless steel cylinder
- Fastening kit
- End caps
- Weight 0,111 kg
- 400 N
- Load max.
- Order with position fixing nuts, part no. 21.1100/7



APPLICATIONS

- Swing doors and lids

- Mount in reversed orientation for non lift removable or horizontal applications
- Connection of profiles 19 at various angles



part no. 21.1100/0

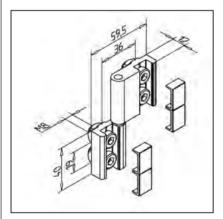
ASSEMBLY

- Use fastening kit

- For fixing directly on panel elements or on profile surfaces we deliver hinge 19 without fixing element part no. 21.1100/2
- 1: lift removable

- 2: non lift removable

HINGE 32



TECHN. DATA / ITEMS SUPPLIED

0,128 kg

400 N

- Aluminium, natural anodized with stainless steel cylinder

- Fastening kit
- End caps
- Weight

- Load max.

- Order with position fixing nuts, part no. 21.1095/7

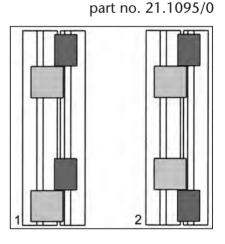


APPLICATIONS

- Swing doors and lids

- Mount in reversed orientation for non lift removable or horizontal applications

- Connection of profiles 19, 32 and 45 at various angles



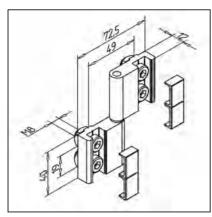
ASSEMBLY

- Use fastening kit

- For fixing directly on panel elements or on profile surfaces we deliver hinge 32 without fixing element part no. 21.1095/2
- 1: lift removable
- 2: non lift removable

01 100 (/0

HINGE 45



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural anodized with stainless steel cylinder

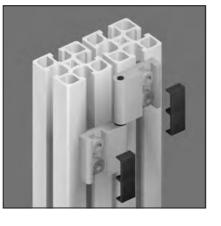
- Fastening kit

- End caps

- Weight	

0,145 kg - Load max. 400 N

- Order with position fixing nuts, part no. 21.1096/7



APPLICATIONS

- Swing doors and lids

- Connection of profiles 45 at various angles

- Attachment of guards

- Mount in reversed orientation for non lift removable or horizontal applications

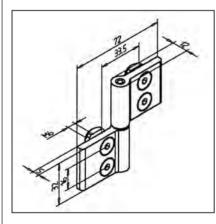
part no. 21.1096/0
ASSEMBLY
- Use fastening kit
- For fixing directly on panel elements or on

profile surfaces we deliver hinge 45 without fixing element part no. 21.1096/2

- 1: lift removable

- 2: non lift removable

HINGE L 19/30



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural anodized, steel cylinder-bolt

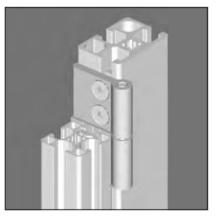
- Fastening kit

- End caps

- Weight 0,089 kg

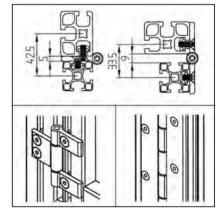
400 N

- Load max.



APPLICATIONS

- Doors, lids, movable attached constructions on profiles 19, 32 and 45
- According to arrangement of hinges, lift removable or non-lift-removable constructions are possible
- Connection of profiles 19 and 30 at various angles



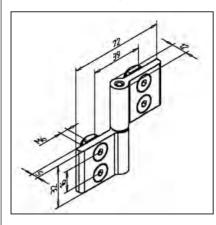
part no. 21.1374/0

ASSEMBLY

- Use fastening kit

- For production of hinges in various length or bore distances or piano-hinges
- extrusion part no. 20.0093/0 is available

HINGE L 30/30



TECHN. DATA / ITEMS SUPPLIED

0,089 kg

400 N

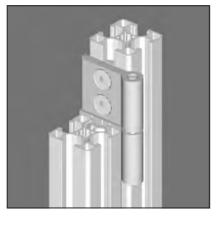
- Aluminium, natural anodized, steel cylinder-bolt

- Fastening kit

- End caps

_		
_	Weight	

- Load max.



APPLICATIONS

- Doors, lids, movable attached constructions
- According to arrangement of hinges, lift removable or non-lift-removable constructions are possible
- Connection of profiles 30 at various angles

<u>101 101 </u>	0 0

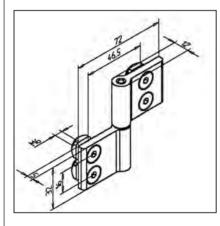
part no. 21.1376/0

ASSEMBLY

- Use fastening kit

 For production of hinges in various length or bore distances or piano-hinges extrusion part no. 20.0093/0 is available

HINGE L 30/45



TECHN. DATA / ITEMS SUPPLIED

400 N

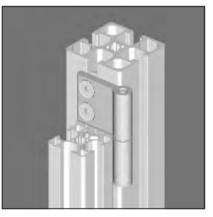
 Aluminium, natural anodized, steel cylinder-bolt

- Fastening kit

- End caps

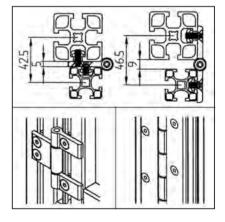
- Weight 0,089 kg

- Load max.



APPLICATIONS

- Doors, lids, movable attached constructions
- According to arrangement of hinges, lift removable or non-lift-removable constructions are possible
- Connection of profiles 30 and 45 at various angles



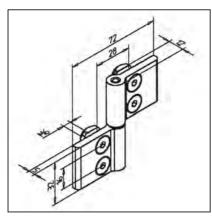
part no. 21.1377/0

ASSEMBLY

- Use fastening kit

- For production of hinges in various length or bore distances or piano-hinges extrusion **part no. 20.0093/0** is available

HINGE L 19/19



TECHN. DATA / ITEMS SUPPLIED

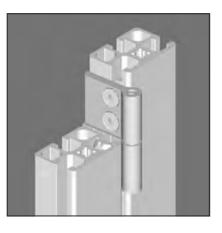
- Aluminium, natural anodized with stainless steel cylinder

- Fastening kit

- Weight 0,089 kg

400 N

- Load max.



APPLICATIONS

- Doors, lids, movable attachments at profiles 19 and 32

- Attachment of guards

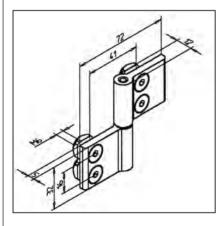
- Mount in reversed orientation for non lift removable or horizontal applications
- Connection of profiles 19 at various angles

part no. 21.1373/0				
	0 0			
ASSE	MBLY			

- Use fastening kit

- For production of hinges at various length or piano-hinges is hinge-profile 5GB, part no. 20.0093/0 available

HINGE L 19/45



TECHN. DATA / ITEMS SUPPLIED

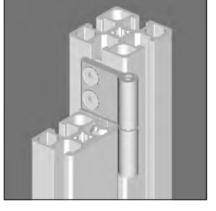
400 N

- Aluminium, natural anodized with stainless steel cylinder

- Fastening kit

- Weight 0,089 kg

- Load max.

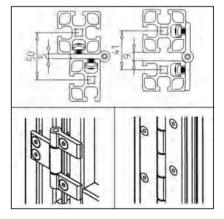


APPLICATIONS

- Doors, lids, movable attachments at profiles 19, 32 and 45

- Mounting of guards

- Mount in reversed orientation for non lift removable or horizontal applications
- Connection of profiles 19, 32 and 45 at various angles



part no. 21.1375/0

ASSEMBLY

- Use fastening kit

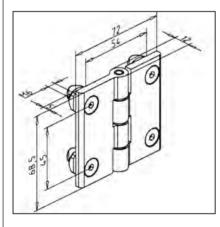
- For production of hinges at various length or piano-hinges is hinge-profile 5GB, part no. 20.0093/0 available

107

MINITEC PROFILE SYSTEM

HINGE L 45/45 part no. 21.1378/0 ß 0 TECHN. DATA / ITEMS SUPPLIED **APPLICATIONS** ASSEMBLY - Aluminium, natural anodized - Doors, lids, movable attachments at - Use fastening kit profiles 45 with stainless steel cylinder - For production of hinges at various length - Fastening kit - Mounting of guards or piano-hinges is hinge-profile 5GB, part no. 20.0093/0 available - Weight 0,089 kg - Mount in reversed orientation for non lift removable or horizontal applications - Load max. 400 N - Connection of profiles 45 at various

DOOR HINGE SMALL

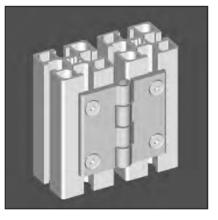


TECHN. DATA / ITEMS SUPPLIED

- Aluminium

- Fastening kit

- Weight 0,120 kg



APPLICATIONS

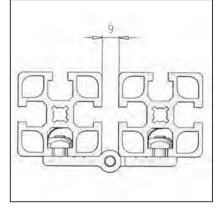
- Suitable for large doors and lids

- Guard units

angles

- Connection of profiles at any angle

part no. 21.0973/0

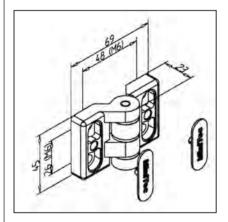


ASSEMBLY

- Use fastening kit

DOOR HINGE LARGE part no. 21.0970/0 ğ TECHN. DATA / ITEMS SUPPLIED APPLICATIONS ASSEMBLY - Aluminium - Suitable for large doors and lids - Use fastening kit - Fastening kit - Guard units - Weight 0,235 kg - Connection of profiles at any angle

HINGE 19 S

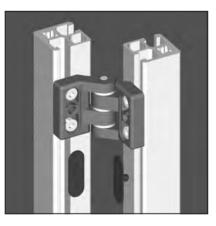


TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Without fastening kit
- End caps
- 0,100 kg - Weight 600 N

```
- Load max.
```

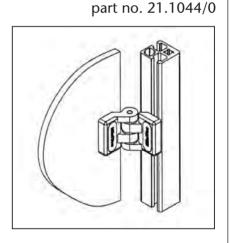


APPLICATIONS

- Suitable for large doors and flaps of profiles type 19 or 32

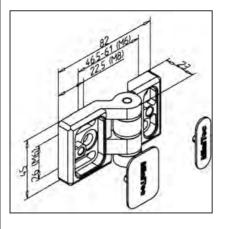
- Guard units

- Connection of profiles 19 and 32 at any angle



- Fasten hinge with 2 M6 x 18 bolts and 2 square nuts on the profile groove, or with screws corresponding to the material thickness directly on the panel elements
- For heavy-duty applications use multiple hinges
- Bending range 270°

HINGE 32 S



TECHN. DATA / ITEMS SUPPLIED

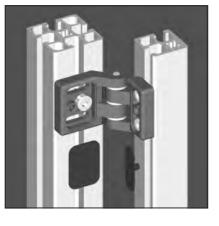
- Aluminium GD, powder-coated, grey

- Without fastening kit

- End caps

- Weight	0,105 kg

- Load max. 600 N



APPLICATION

- Suitable for large doors and flaps

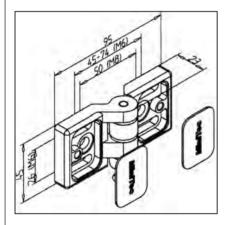
- Guard units

- Connection of profiles 19, 32 and 45 at any angles

SEMBL

- Fasten hinge with 2 M6 x 18 bolts and 2 square nuts on the profile groove or with screws corresponding to the material thickness directly on the panel elements
- Other hinge half on profile 45 x 45 with screw M8 x 30 or 2 screws M6 x 18 fasten
- For heavy-duty applications use multiple hinges
- Bending range 270°

HINGE 45 S



TECHN. DATA / ITEMS SUPPLIED

0,100 kg

600 N

- Aluminium GD, powder-coated, grey

- Without fastening kit

- End caps

- Weight

- Load max.

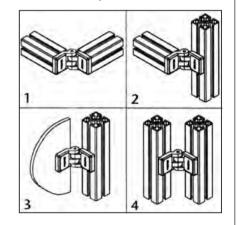
APPLICATIONS

- Suitable for large doors and flaps

- Guard units

- Connection of profiles at various angles
- For heavy-duty application use multiple hinges

part no. 21.1098/0



ASSEMBLY

- 1: 2 screws M8 x 30

- 2: 2 screws M6 x 18, 2 square nuts M6, 1 screw M8 x 30
- 3: 2 screws M6 x 18, 2 square nuts M6, 2 screws M6 for panel element according to material
- 4: 4 screws M6 x 18, 4 square nuts M6
- Bending range 270

part no. 21.1055/0

HINGE 45 M6

0

24



part no. 21.1175/0

ASSEMBLY

- Use fastening kit

TECHN. DATA / ITEMS SUPPLIED

- ABS, grey - Fastening kit - Weight 0,061 kg - Load max. 160 N

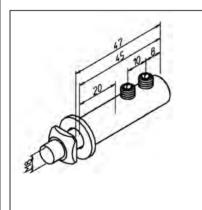
	CATH	ONE
APPLI	CALL	UNS

- Suitable for light doors and lids

- Guard units

- Connection of profiles at various angles

INTERAL HINGE AL



TECHN. DATA / ITEMS SUPPLIED

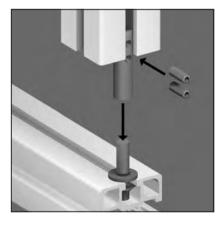
- Aluminium, natural	
 Fastening kit 	
- Weight	0,020 kg
- Load max.	250 N



APPLICATIONS

- Doors
- Lids
- Movable elements
- Subsequent insertion of doors

part no. 21.1142/0

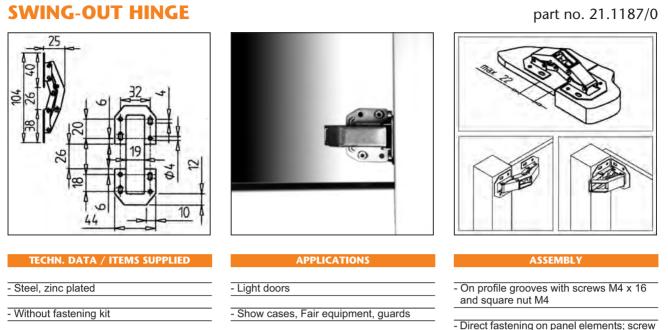


ASSEMBLY

- Screw snap bolts onto the frame and insert washer

- Insert hinge into door element

- Hold the door element above the grooves, push hinges onto snap bolts and tighten them

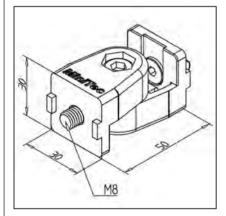


- Doors close without gap, bearing on the outside or flush on the inside
- Direct fastening on panel elements; screw length according to material thickness
 - Direct fastening on profile surface

LINK 30 S

- Weight

- Load max.



0,082 kg

50 N

TECHN. DATA / ITEMS SUPPLIED

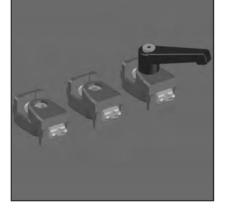
0,087 kg

- Aluminium GD, powder coated, grey

- Fastening kit

- Locking device against torsion

- Weight



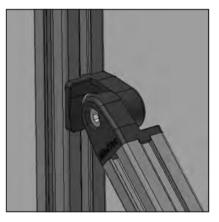
APPLICATIONS

- Connection of profiles at any angle

- Subsequent insertion of profiles into existing frames

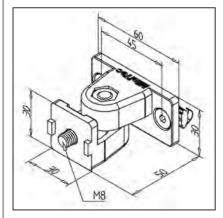
- Alternatively: Angle bracket 30 S part no. 21.2222/0
- Alternatively: Angle bracket fixed 30 S part no. 21.2225/0

part no. 21.2106/0



- First part of hinge to be mounted on profile face
- Second part of hinge to be mounted on frame
- Screw both parts together on hinge point

LINK 30 F / S

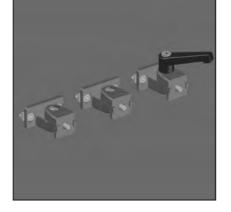


TECHN. DATA / ITEMS SUPPLIED

0,105 kg

- Aluminium GD, powder coated, grey

- Locking device against torsion

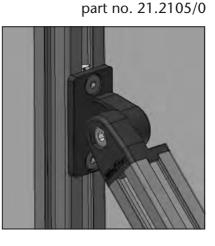


APPLICATIONS

- Connection of profiles at any angle

- Subsequent insertion of profiles into existing frames
- Alternatively: Angle bracket 30 F / S **part no. 21.2221/0**

- Alternatively: Angle bracket fixed 30 F / S part no. 21.2224/0



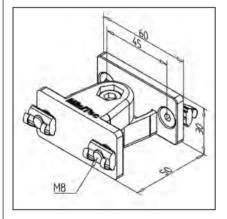
ASSEMBL

- First part of hinge to be mounted on profile face
- Mount profile with angle bracket on frame

LINK 30 F

- Fastening kit

- Weight



TECHN. DATA / ITEMS SUPPLIED

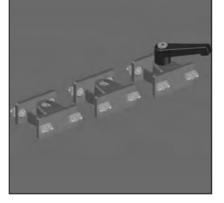
0,126 kg

- Aluminium GD, powder coated, grey

- Fastening kit

- Locking device against torsion

- Weight



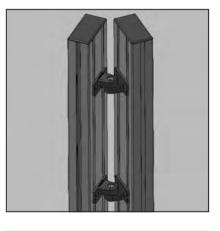
APPLICATIONS

- Connection of profiles at any angle

- Subsequent insertion of profiles into existing frames

- Alternatively: Angle bracket 30 F **part no. 21.2223/0**

- Alternatively: Angle bracket fixed 30 F part no. 21.2226/0



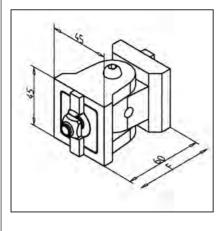
part no. 21.2111/0

ASSEMBLY

- Fastening of hinges on profile groove

- Screw both parts together on hinge point

LINK





- Aluminium GD, powder coated, grey

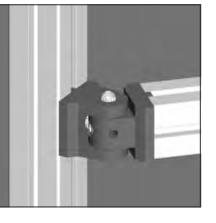
- Fastening kit

- AL GD locking device against torsion

5000 N

- Load Fmax.

- Weight 0,250 kg



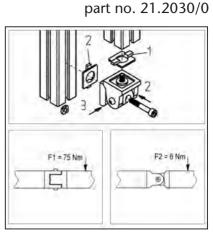
APPLICATIONS

- Connection of profiles at any angle

- Braces

- Reinforcement of frame constructions

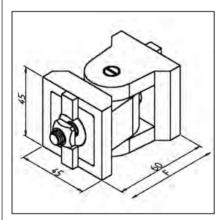
- Not to be used as a hinge



ASSEMBLY

- 1: Joint half with pre-mounted screw to desired position fasten
- 2. Screw from scope of supply insert and joint half of 2 fix swivel (to it mobile side 90°)
- 3: Tighten lateral connecting screws

ANGLE BRACKET



TECHN. DATA / ITEMS SUPPLIED

1500 N

0,240 kg

- Aluminium GD, powder coated, grey

- Fastening kit
- AL GD locking device against torsion
- Load max.

- Weight



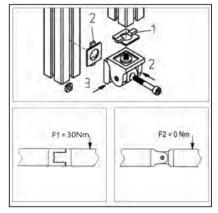
APPLICATIONS

 Heavy swivel doors, bearing assembly of movable add-on pieces

- Not lockable

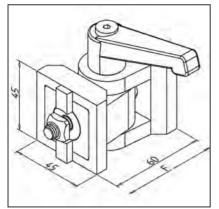
- For heavy loads use multiple hinges

part no. 21.2020/0



- 1: Joint half with pre-mounted screw to desired position fasten
- 2: Screw from scope of supply insert and joint half of 2 fix (to it, do not solve camp pins swivel mobile side 90°!)

ANGLE BRACKET FIXABLE





1500 N

0,280 kg

- Aluminium GD, powder coated, grey
- Fastening kit
- AL GD locking device against torsion
- Load max.
- Weight



APPLICATIONS

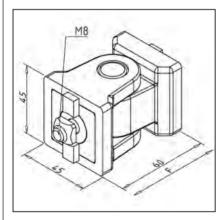
- Heavy swivel doors, bearing assembly of movable add-on pieces
- Clamping lever for positioning of add-on parts
- Fixing of pieces such as measuring devices that need to be adjusted quickly
- For heavy loads use multiple hinges

pa	rt no. 21.2010/0
F1 = 75 Nm	F2 = 3 Nm

ASSEMBLY

- 1: Joint half with pre-mounted screw to desired position fasten
- 2: Insert screw M8 x 50 and fix hinge half 2
- 3: Tighten clamping lever

ANGLE BRACKET 45 / 15



TECHN. DATA / ITEMS SUPPLIED

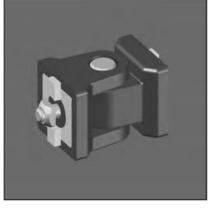
- Aluminium GD, powder coated, grey

- Fastening kit
- AL GD locking device against torsion

2700 N 0,312 kg

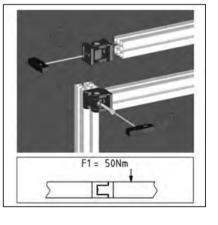
- Load max.

- Weight



APPLICATIONS

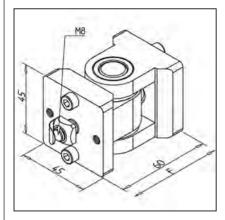
- Heavy swivel doors, bearing assembly of movable add-on pieces
- Clamping lever for positioning of add-on parts
- For heavy loads use multiple hinges



part no. 21.2315/0

- 1: Mount the hinge half 1 on the desired position (with key SA/F through bore in hinge half 2)
- 2: Insert screw M8 x 50 and fix hinge half 2

HEAVY DUTY HINGE



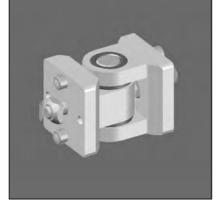
TECHN. DATA / ITEMS SUPPLIED

3500 N

0,679 kg

- Steel, zinc-plated
- Fastening kit
- Locking device against torsion
- Load

- Weight

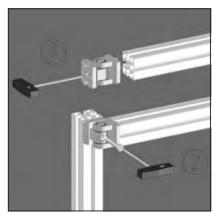


APPLICATIONS

- Heavy swivel doors, bearing assembly of movable add-on pieces

- Not lockable

- For heavy loads use multiple hinges

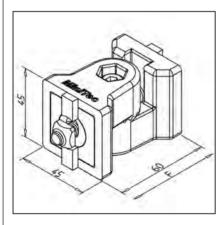


part no. 21.2034/0

ASSEMBLY

- First part of hinge to be mounted on profile face
- Second part of hinge to be mounted on frame

ANGLE BRACKET R



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

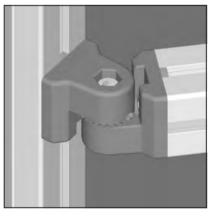
- Fastening kit
- Locking device against rotation AL GD

5000 N

0,263 kg

- Load max.

- Weight

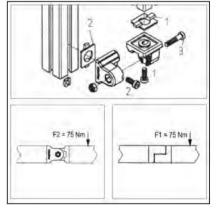


APPLICATIONS

- Setting angle 180° in steps of 15°

- Adjustale fixing of add-on parts such as grip-boxes, beams or monitors

- Safe adjustment through tooth system



part no. 21.2041/0

ASSEMBLY

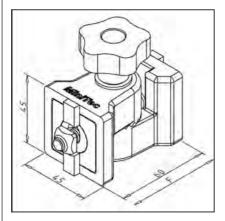
 1: Place locking device and screw first half of the bracket

- 2: Fix second half

- 3: Connect the 2 halves in desired angle and tighten

part no. 21.2230/0

ANGLE BRACKET R FIXABLE



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Locking device against torsion AL GD

5000 N

0,279 kg

- Fastening kit

- Load max.

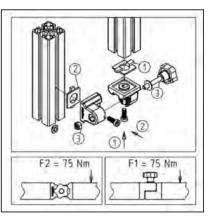


APPLICATIONS

- Setting angle 180° in steps of 15°

- Adjustale fixing of add-on parts such as grip-boxes, beams or monitors

- Safe adjustment through tooth system



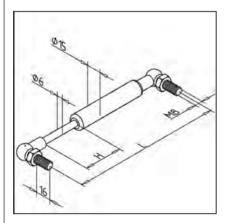
ASSEMBLY

- 1: Place locking device and screw first half of the bracket

- 2: Fix second half

- 3: Connect the 2 halves in desired angle and tighten

GAS SPRING 6 / 15



TECHN. DATA / ITEMS SUPPLIED

- Stroke (H) alternatively 20 / 40 / 60 / 80 / 100 / 120 / 150 mm

- Power (F) between 50 and 400 N (increments 50 N)

- Please indicate desired length of stroke and force



APPLICATIONS

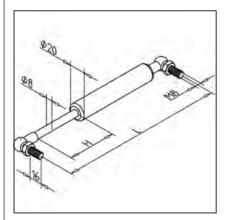
- Lift assist for hinged elements

- Suitable for lift and swivel movements

part no. 24.1126/0

H (mm)	L (mm)
20	115,5
40	155,5
60	194.5
80	235
100	273
120	316
150	375,5

GAS SPRING 8 / 20





part no. 24.1127/0

H (mm)	L (mm)	
57	206	
80	244	
100	286	
120	326	
140	366	
160	405	
180	446	
200	485,5	
220	527	
250	585,5	

TECHN. DATA / ITEMS SUPPLIED

- Stroke (H) alternatively 57 / 80 / 100 / 120 / 140 / 160 / 180 / 200 / 220 / 250 mm

- Power (F) between 80 and 750 N (increments 50 N)

- Please indicate desired length of stroke and force

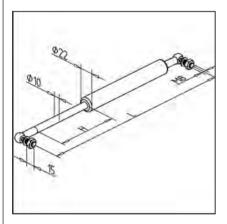
APPLICATIONS

- Suitable for lift and swivel movements

- Lift assist for hinged elements

ASSEMBLY

GAS SPRING 10/22



TECHN. DATA / ITEMS SUPPLIED

- Stroke (H) alternatively 100 / 150 / 200 / 250 / 300 / 350 / 400 mm

- Power (F) between 100 and 1200 N (increments 50 N)

- Please indicate desired length of stroke and force



APPLICATIONS

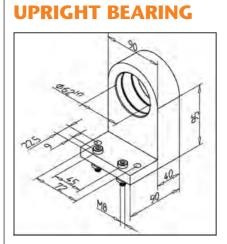
- Lift assist for hinged elements

- Suitable for lift and swivel movements

H (mm)	(mm)
100	286
150	386
200	486
250	586
300	686
350	786
400	886

part no. 24.1128/0

part no. 28.0158/0

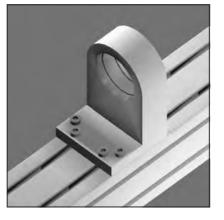


TECHN. DATA / ITEMS SUPPLIED

- Without ball bearing and locking rings

1,310 kg

- Aluminium, natural anodized



APPLICATIONS

- Large swivel frames

- Guiding of shafts, axles, drums, tires lengthwise and crosswise to the profile



ASSEMBLY

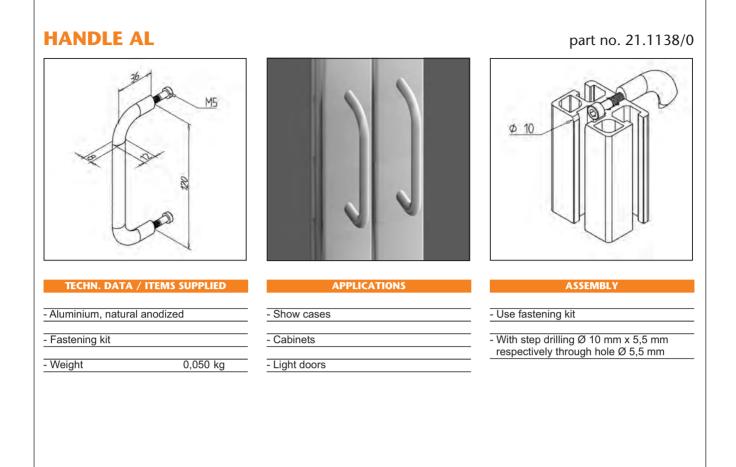
- Location hole fittting for radial ball bearing 6206 2RS part no. 50.0977/1

- Use fastening kit

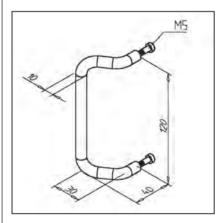
- Weight

- Fastening kit

MINITEC PROFILE SYSTEM 119



HANDLE AL ANGLED

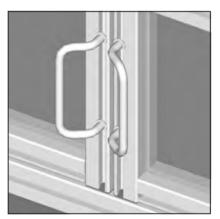


TECHN. DATA / ITEMS SUPPLIED

- Aluminium natural, anodized

- Fastening kit

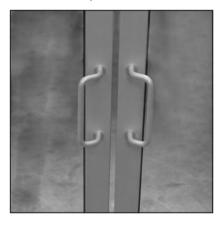
- Weight 0,050 kg



APPLICATIONS

 Show cases 	
- Cabinets	
- Light doors	

part no. 21.1348/0

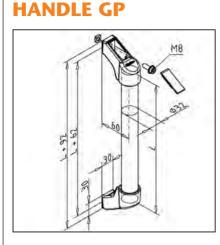


ASSEMBLY

- Use fastening kit

- 2 step drills Ø 10 mm x 5,5 mm or through-bores Ø 5,5 mm in 120 mm distance

part no. 21.2317/0





81

TECHN. DATA / ITEMS SUPPLIED

- Handle profile aluminium, anodized E6/ EV1
- Bracket ABS, grey

- Fasterling Kit steel,	zinc-plated
- Weight	0,247 kg
- Lenath	300 mm

- Other lengths on request

- Please measure L specify

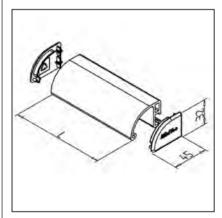
- Construction set without profile part no. 21.2317/1

APPLICATIONS
- Doors and lids
- Creeper
- Railing

 Attach bracket to handle profile
- Attach handle to profile grooves using
mounting material from fastening kit

ASSEMBL

CLOSED PROTECTIVE HANDLE





TECHN. DATA / ITEMS SUPPLIED

0,113 kg

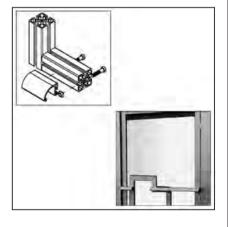
120 mm

- Aluminium anodized
- End caps
- Without fastening kit
- Weight
- Length
- Other lengths on request

- Please measure L specify

APPLICATIONS

- Doors	
- Lids	
- Guards	
- Furniture	



part no. 21.1048/0

- On profile groove with 2 hex socket cap screws M6 x 16 and square nut M6
- Directly on panel element with hex socket cap screw M6, length according to material thickness
- Assembly can also be carried out from the rear side; for this purpose insert square nut M6

PROFILE HANDLE 32

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TECHN. DATA / ITEMS SUPPLIED

- Please specify dimension L and A level

0,510 kg

300 mm

48 mm

- Assembly kit made from MiniTec

aluminium profiles

- Standard distance (A)

- Other lengths on request

- Fastening kit

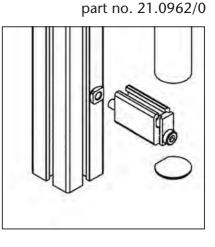
- Weight

- Length (L)



APPLICATIONS

- Handle for very large doors, lids, trolleys, removable panel elements

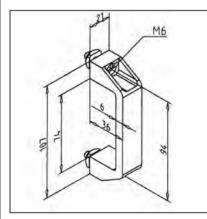


ASSEMBLY

- Enter square nut in existing construction

- Pre-assemble the spacers and profile connector with longer screws
- Insert the handle profile and tighten the profile connector to the spacers
- Clip on end caps

HANDLE 90



TECHN. DATA / ITEMS SUPPLIED

- PA 6.6, grey

- On request also deliverable in black part no. 21.1099/0

- Fastening kit

- Weight

0,025 kg



APPLICATIONS

- Doors		
- Lids		
- Guards		

part no. 21.1099/1

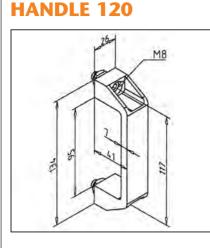


ASSEMBLY

- Use fastening kit

- Directly on panel element with hex socket cap screw M6, length according to material thickness
- Assembly can also be carried out from the rear side

part no. 21.1092/1





TECHN. DATA / ITEMS SUPPLIED

0,074 kg

- PA 6.6, grey

- On request also deliverable in black part no. 21.1092/0

- Fastening kit

- Weight

- On request ESD capability available in black part no. 32.1007/0

APPLICATIONS
- Doors
- Lids
- Guards

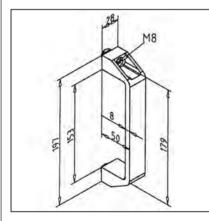
	-	
WA .	-	

ASSEMBLY

- Use fastening kit

- Directly on panel element with hex socket cap screw M8, length according to material thickness
- Assembly can also be carried out from the rear side

HANDLE 180



TECHN. DATA / ITEMS SUPPLIED

- PA 6.6, grey

- On request also deliverable in black part no. 21.1094/0

- Fastening kit

- Weight

0,099 kg



APPLICATIONS

- Doors		
- Lids		
- Guards		

part no. 21.1094/1



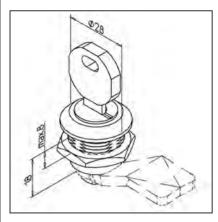
ASSEMBLY

- Use fastening kit

- Directly on panel element with hex socket cap screw M8, length according to material thickness

- Assembly can also be carried out from the rear side

CYLINDER LOCK



TECHN. DATA / ITEMS SUPPLIED

- Brass, chrome plated

- Without lock

- 2 keys

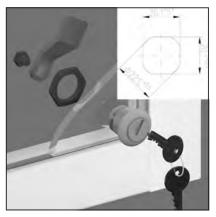
- Weight



APPLICATIONS

- Light doors from panel elements up to 8 mm thickness

part no. 21.1752/0

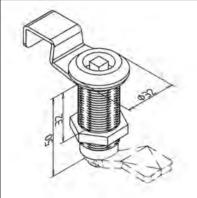


ASSEMBLY

- Bore Ø 22 mm in panel element
- Position: 22 mm from edge in both directions
- Selection of locks see page 132

BOLT LOCK 32 FOR FOUR-FACED KEY

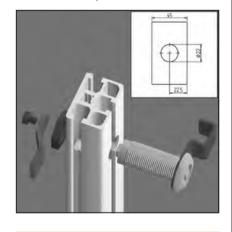
0,100 kg



APPLICATIONS

- Locking of doors and lids in guard units

part no. 21.1087/6



ASSEMBLY

- Bore Ø 22 mm in the middle of the profile

- Tighten bolt lock from the rear with fixing nut

- Selection of locks see page 132

TECHN. DATA / ITEMS SUPPLIED

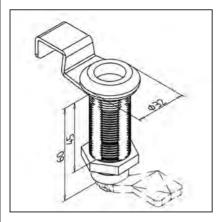
- Housing GD Zn, black
- With four-faced key
- Opener, black
- Fixing nut, steel, zinc plated
- Without lock

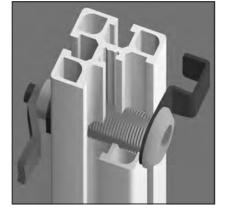
- Weight

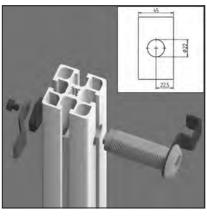


0,179 kg

BOLT LOCK 45 SOCKERT HEX HEAD WRENCH 10 A/F part no. 21.1087/9







TECHN. DATA / ITEMS SUPPLIED

- Housing GD Zn, black
 For socket hex head wrench 10 A/F
- Opener, black

- Fixing nut, steel, zinc plated

- Without lock

- Weight 0,111 kg

APPLICATIONS

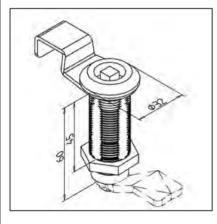
- For profiles 45

- Locking of doors and lids in guard units

ASSEMBLY

- Bore Ø 22 mm in the middle of the profile
- Tighten bolt lock from the rear with fixing nut
- Selection of locks see page 132

BOLT LOCK 45 FOR FOUR-FACED KEY

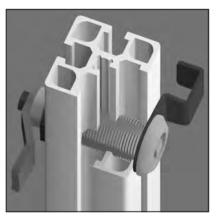


TECHN. DATA / ITEMS SUPPLIED

0,197 kg

- Housing GD Zn, black
- With four-faced key
- Opener, black
- Fixing nut, steel, zinc plated
- Without lock

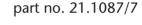
- Weight

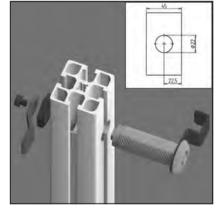


APPLICATIONS

- For profiles 45

- Locking of doors and lids in guard units

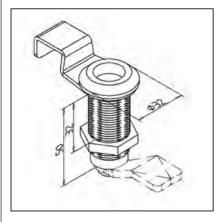


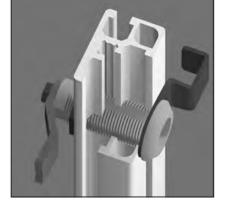


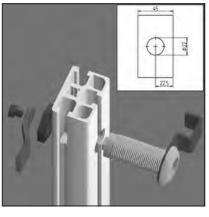
- Bore Ø 22 mm in the middle of the profile
- Tighten bolt lock from the rear with fixing nut
- Selection of locks see page 132

BOLT LOCK 32 SOCKET HEX HEAD WRENCH A/F 10 pa

part no. 21.1087/8







TECHN. DATA / ITEMS SUPPLIED

- Housing GD Zn, black - For socket hex head wrench A/F 10

Opener, black

- Fixing nut, steel, zinc plated

- Without lock

- Weight 0,102 kg

		CAT		-
AN 14	211	САТ	1.1.1.1	5

- For profiles 32

- Locking of doors and lids in guard units

ASSEMBLY

- Bore Ø 22 mm in the middle of the profile

- Tighten bolt lock from the rear with fixing nut

- Selection of locks see page 132

HANDLE 8 WITH PROFILE CYLINDER LOCK GREY

So and the solution of the sol

TECHN. DATA / ITEMS SUPPLIED

- Housing PA/GD Zn, grey

- Fixing nut, steel, zinc-plated

- Without lock

- Weight 0,145 kg



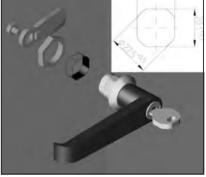
APPLICATIONS

- Locking of doors and lids in guard units

- For panel elements up to 8 mm thickness



part no. 21.2305/0



ASSEMBLY

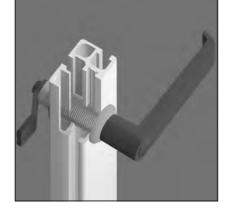
- Drill borehole according to drawing

- Tighten handle lock from the rear with fixing nut

part no. 21.1087/4

HANDLE 32 WITHOUT PROFILE CYLINDER LOCK

Real Provide Arrived A



TECHN. DATA / ITEMS SUPPLIED

- Housing PA/GD Zn, grey

- On request also deliverable in black part no. 21.1087/2

0,172 kg

- Fixing nut, steel, zinc plated

- Without lock

- Weight

APPLICATIONS

- For profiles 32

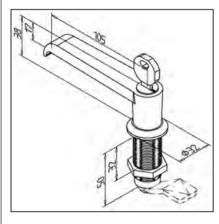
- Locking of doors and lids in guard units

ASSEMBLY

- Bore Ø 22 mm in the middle of the profile

- Tighten bolt lock from the rear with fixing nut
- Selection of locks see page 132

HANDLE 32 WITH PROFILE CYLINDER LOCK



TECHN. DATA / ITEMS SUPPLIED

- Housing PA/GD Zn, grey

- On request also deliverable in black part no. 21.1091/2

0,211 kg

- Fixing nut, steel, zinc plated

- Without lock

- Weight

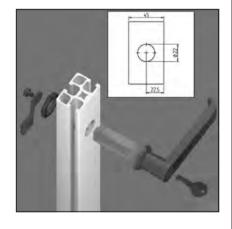


APPLICATIONS

- For profiles 32

- Locking of doors and lids in guard units

part no. 21.1091/4



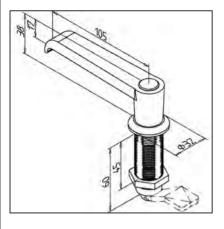
ASSEMBLY

- Bore Ø 22 mm in the middle of the profile

- Tighten handle lock from the rear with fixing nut

HANDLE 45 WITHOUT PROFILE CYLINDER LOCK

part no. 21.1087/3



TECHN. DATA / ITEMS SUPPLIED

- On request also deliverable in black part no. 21.1087/1

- Housing PA/GD Zn, grey

- Fixing nut, steel, zinc plated

- Without lock

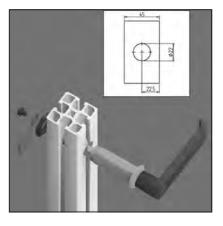
- Weight



APPLICATION

- For profiles 45

- Locking of doors and lids in guard units



ASSEMBL

- Bore Ø 22 mm in the middle of the profile

- Tighten handle lock from the rear with fixing nut
- Selection of locks see page 132

HANDLE 45 WITH PROFILE CYLINDER LOCK

0,195 kg

A CONTRACTOR

TECHN. DATA / ITEMS SUPPLIED

- Housing PA / GD Zn, grey

- On request also deliverable in black part no. 21.1091/1

0,230 kg

- Fixing nut, steel, zinc plated

- Without lock

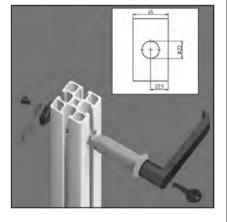
- Weight



APPLICATIONS

- For profiles 45

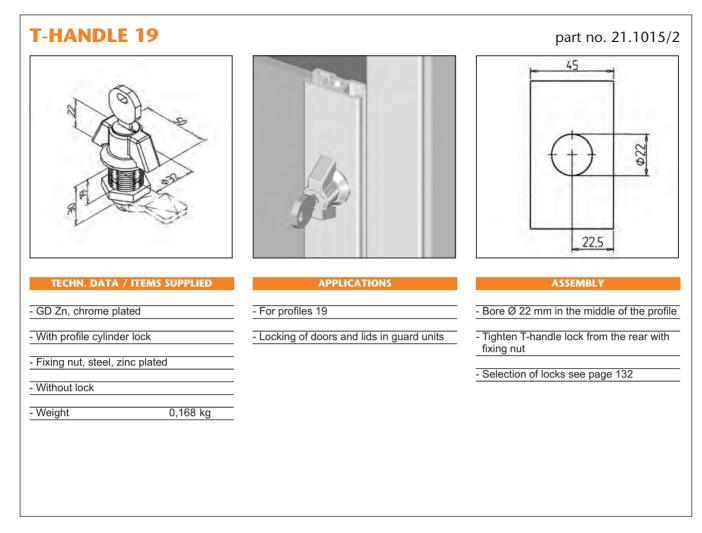
- Locking of doors and lids in guard units



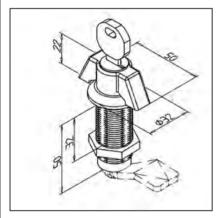
part no. 21.1091/3

ASSEMBLY

- Bore Ø 22 mm in the middle of the profile
- Tighten handle lock from the rear with fixing nut



T-HANDLE 32



TECHN. DATA / ITEMS SUPPLIED

0,188 kg

- GD Zn, chrome plated

- With profile cylinder lock

- Fixing nut, steel, zinc plated

- Without lock

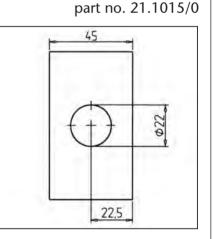
- Weight



APPLICATIONS

- For profiles 32

- Locking of doors and lids in guard units

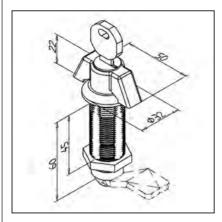


ASSEMBLY

- Bore Ø 22 mm in the middle of the profile

- Tighten T-handle lock from the rear with fixing nut

T-HANDLE 45





TECHN. DATA / ITEMS SUPPLIED

0,198 kg

- GD Zn, chrome plated

- With profile cylinder lock

- Fixing nut, steel, zinc plated

- Without lock

- Weight



- For profiles 45

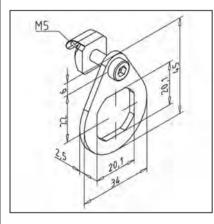
- Locking of doors and lids in guard units

part no. 21.1015/1

- Bore Ø 22 mm in the middle of the profile

- Tighten T-handle lock from the rear with fixing nut
- Selection of locks see page 132

TWIST-STOP F



TECHN. DATA / ITEMS SUPPLIED

- 1.4305 / steel zinc-plated

- Fastening kit

- Weight 0,0213 kg



APPLICATIONS

 Protection of bolt-locks, handles and Thandles against unwanted loosening or overturning

- In particular fitting in combination with Door stop S, **part no. 21.1767/0**

part no. 21.0941/0

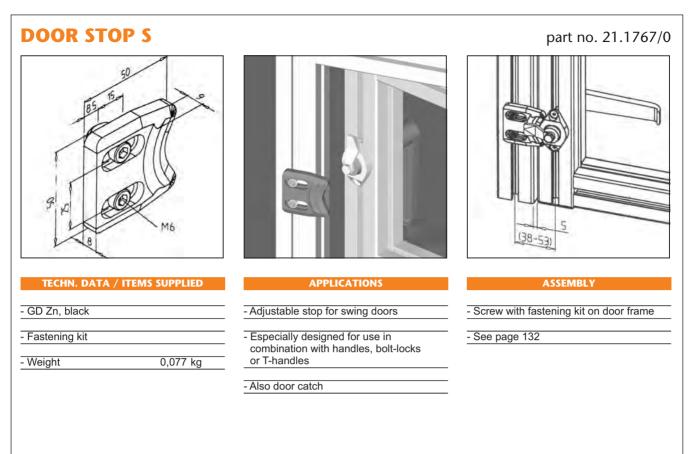


ASSEMBLY

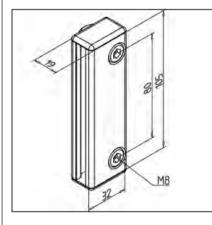
- Mount handle or bolt lock as usual, fasten hexagon nut

- Fix Twist-Stop F using fastening kit

- Mount lock



CATCH 19



TECHN. DATA / ITEMS SUPPLIED

- Profile 19 x 32

- End caps

- Fastening kit

- Weight

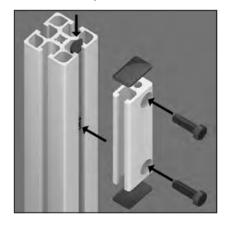
0,040 kg



APPLICATIONS

- Locking of doors and lids in connection with handles or bolt locks

part no. 21.1755/0



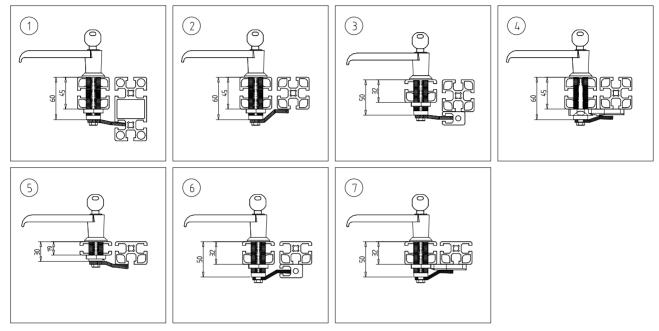
ASSEMBLY

- Use fastening kit

LOCKS

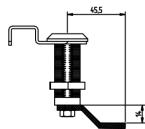
FITTING PRINCIPLES & SELECTION OF LOCKS

FITTING PRINCIPLES

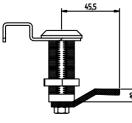


SELECTION OF LOCKS

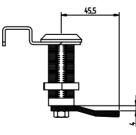
	Door profile 45 x 45 mm	Door profile 32 X 45 mm	Door profile 19 X 45 mm	Surface element 4-8 mm
DOOR PROFILE	Handle, T-Handle or Bolt lock 45	Handle, T-Handle or Bolt lock 32	Handle, T-Handle or Bolt lock 19	CYLINDER LOCK
		part no.	of locks	
① 90 x 45	21.1093/1	21.1093/0	-	21.1093/2
2 45 x 45	21.1093/5	21.1093/3	21.1093/4 o. /0	21.1093/2
3 with Catch 19	21.1093/4	21.1093/2	-	-
④ with Door catch S	21.1093/3	21.1093/1	-	_
(5) 32 x 45	-	-	21.1093/1	-
6 with Catch 19	-	21.1093/5	-	21.1093/0
⑦ with Door catch S	-	21.1093/4	21.1093/0	-



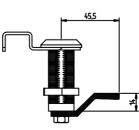
part no. 21.1093/0



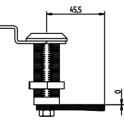
part no. 21.1093/4



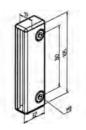
part no. 21.1093/1



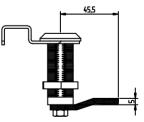
part no. 21.1093/5



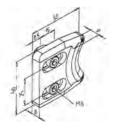
part no. 21.1093/2



Catch 19 part no. 21.1755/0



part no. 21.1093/3



Door catch S part no. 21.1767/0

ONE OR TWO-SIDED LOCKING

Items supplied

- Bolt lock, steel, black with square key
- Guiding element, steel, galvanized
- Latch with rollers (I = 1100 mm), steel, galvanized
- Rod guide, plastic, black with injected nut M6

Optional

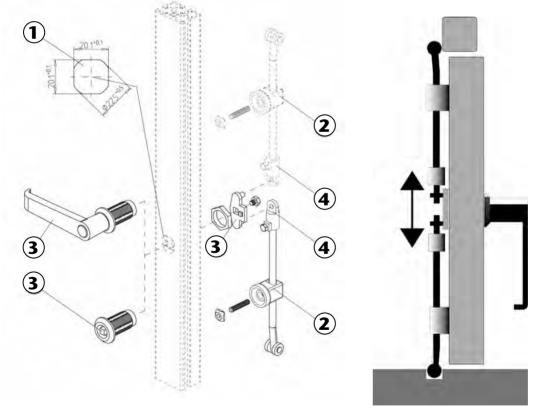
Handle with or without lock

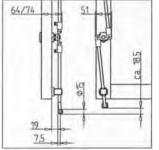
Applications

- For locking doors at upper or lower beam
- Use 2 rods for 2-sided locking
- Order bolt lock, handle without lock or handle with cylinder lock
- Especially suited for control boxes or double-sided doors

AVAILABLE VERSIONS

	Bolt lock		Handle without lock		Handle cylinde	
PROFILE	1 ROD	2 RODS	1 ROD	2 RODS	1 ROD	2 RODS
32 x 45	21.1798/0	21.1798/2	21.1798/3	21.1798/4	21.1798/5	21.1798/6
45 x 45	21.1788/0	21.1788/2	21.1788/3	21.1788/4	21.1788/5	21.1788/6





Assembly

- 1 Mill bore Ø 22,5 mm as shown in figure below
- (2) Fix rod guide with set screw M6 x 30 at desired position. No drilling necessary. Screw square nut loose onto set screw. Insert the square nut into the profile groove and twist the plastic part until the guide is fixed
- **3** Attach bolt lock or handle
- **4** Insert rod into guiding element and connect with latch

ROD LOCK WITH FALLING LATCH

TWO-SIDED INTERLOCK WITH FALLING LATCH

Items supplied

1 Rod lock insert

- (2) handle
- **3** Falling latch (2 pcs.)
- **4** Adaptors for rods
- **(5)** Rods with lug (Lmax = 1200) (2 pcs.)

Optional

Assembly

6 Cable channel part no. 20.1071/0

1 Bore Ø 13 mm in vertical door profile

2 Screw lock and falling latch at door profile3 Cut rods according to your doorsize.

Mount adaptors at rod-ends. Link rods with

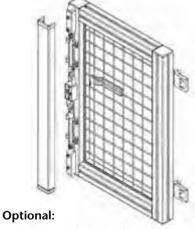
- **7** Protecting cap for cable channel **part no. 22.1117**/1
- **8** Cable clip **part no. 22.1210/0**

lock and falling latch

(4) Insert handle and fix(5) Adjust falling latch

Application

- For locking doors at upper and lower beam
- Especially suited for doors in frames
- Max. door height 2750 mm
- 5 3 6 4 ര് 4 6 1 1 H ł IJ Ω, ļÌ 5 H P Ш dł лH 3 8



Rod cover with cable channel

1 PROFILE SYSTEM 1.4 HANDLES, LOCKS, STOPS

part no. 21.1748/0

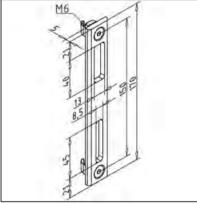
TECHN. DATA / ITEMS SUPPLIED APPLICATIONS - Door Lock steel, zinc-plated, fitted in - Swing doors for guard units profile 45x45 frame - Fittings aluminum anodized - Other embodiments and profiles on - Profile cylinder with 3 keys mounted request, for Example, G - sided profile - Weight 0,850 kg with fixed knob but without lock mounting

- Weight + 1,950 kg/m - Standard version H = 2000mm HG = 1000mm

- Other lengths and profiles on request
- Please specify dimension H and HG
- level
- Please specify a version 1 or 2 - Construction set without profile part no. 21.1748/2

DOOR HANDLE

STRIKING PLATE FOR DOOR LOCK



TECHN. DATA / ITEMS SUPPLIED

0,061 kg

- Profile 19 x 32

- Fastening kit

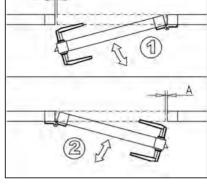
- Weight



APPLICATIONS

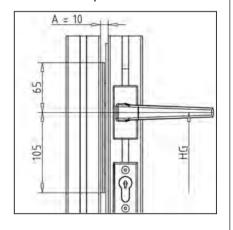
- Locking of doors and lids in connection with handles or bolt locks

- No post processing required to profile groove of the door pillar



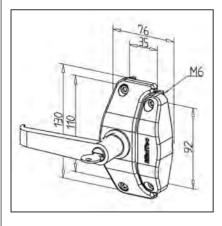
- Allow 5mm space between door and
- Using striking plate with 10 mm gap
- Closing wedge engages in opposite groove
- Position horizontal profile offside lock area or use counter sunk screw M8 x 25

part no. 21.0966/0



- Use fastening kit
- Door gap at lock 10 mm

ROTARY LOCK 30



TECHN. DATA / ITEMS SUPPLIED

- Aluminium	GD,	powder	coated,	grey

- Fastening kit

- Weight 210949/0 0,432 kg
- Weight 210959/0 0,441 kg

- Fmax. 1000 N



APPLICATION

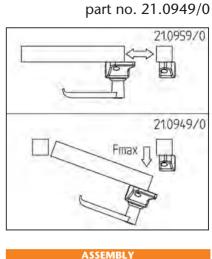
- Rotary Lock 30 for swing doors: part no. 21.0949/0
- Rotary Lock 30 for sliding doors: part no. 21.0959/0

- For profiles series 30

- Locking of doors and lids

- No processing of profile necessary

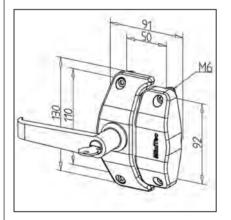
- Position moveable



- Use fastening kit

- Fastening on profile groove - without processing/boring of profiles

ROTARY LOCK 45



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey					
 Fastening kit 					
- Weight 210948/0	0,476 kg				
- Weight 210958/0	0,493 kg				
- Fmax.	2200 N				

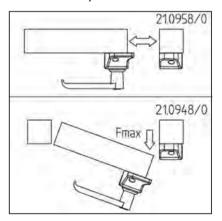


APPLICATIONS

- Rotary lock 45 for swing doors: part no. 21.0948/0 Sliding door lock 45 for sliding doors:
- part no. 21.0958/0

- Locking of doors and lids

- No processing of profile necessary
- Position moveable



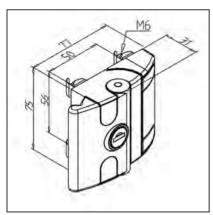
part no. 21.0948/0

ASSEMBLY

- Use fastening kit

- Fastening on profile groove without processing/boring of profiles
- No extra door stop necessary

TRUNK LOCK COMPACT



TECHN. DATA / ITEMS SUPPLIED

- GD-ZN, black

- Fastening kit

- Weight

- Lock cylinder with two keys



APPLICATIONS

- Closing of doors and lids in guard units

- At the same door stop

- Also suitable for frameless doors

- Closed trunk can not be removed

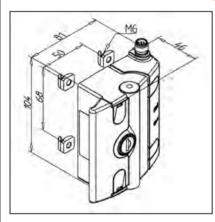
	part r	no. 21.	2311/0
2			

ASSEMBLY

- Mount trunk lock on the door and jamb and mount screw cover
- To mount no profile be required

TRUNK LOCK WITH QUERY

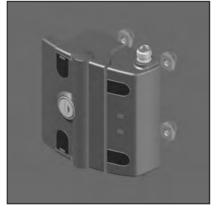
0,255 kg



TECHN. DATA / ITEMS SUPPLIED

- GD-Zn, black
- Lock cylinder with two keys
- Fastening kit
 Reliability values according to EN ISO 13849-1 category 4 performance Level PLe
- Operating voltage DC24V ±15%
 2 safety outputs, p-type, short-circuit proof
 Connection type M12, 8-pin
- UL-approved

- Weight 0,448 kg



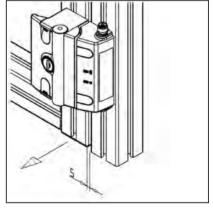
APPLICATIONS

- Closing and securing doors and lids kat. 4 / PLe thanks to integrated transponder coded technology

- At the same door stop

- Closed trunk lock can not be removed

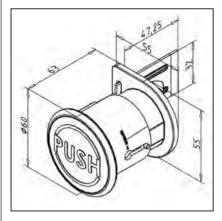
part no. 21.2323/0



- Mount trunk lock on the door and jamb and mount screw cover
- Electrical connection may also optionally be mounted below
- To mount no profile be required
- Matching leads available on request

EMERGENCY RELEASE FOR TRUNK LOCK

part no. 21.2316/0



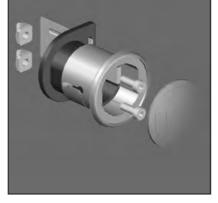
TECHN. DATA / ITEMS SUPPLIED

0,123 kg

- Plastic / steel zinc plated

- Fastening kit

- Weight



APPLICATIONS

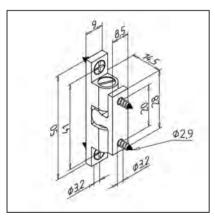
- Assembly in connection with our case lock compact part no. 21.2311/0 or Trunk lock with query part no. 21.2323/0

- To open the door from the inside, on the outside lock attached

- Also functioned with locked trap catch

- When emergency release is snapped into place, closure of door is prevented

BALL LATCH 50



TECHN. DATA / ITEMS SUPPLIED

0,030 kg

- Brass

- Holding force adjustable 10 - 50 N

- Fastening kit

- Weight



APPLICATIONS

 Stop and catch for swing and sliding doors

- Ball latch 50 suitable for T-slots of reworked profiles. Allows gap-free closing of sliding doors

- Doors, lids, removable panel elements

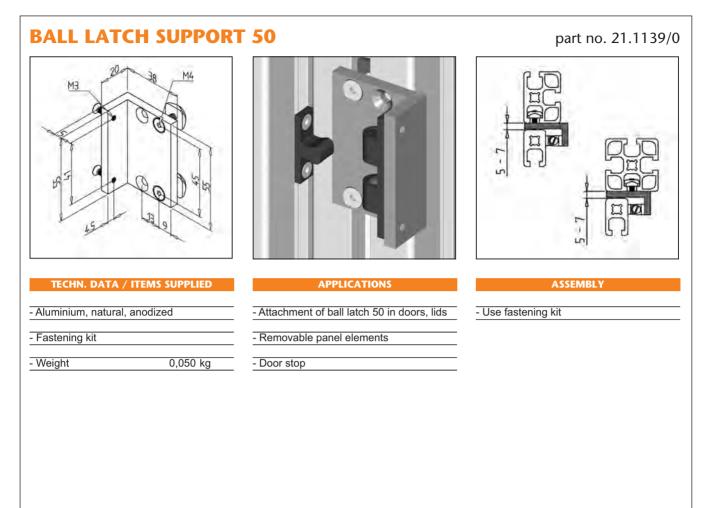


part no. 21.1763/0

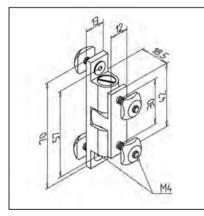
ASSEMBLY

- Also works with closed-off case closure

- Use fastening kit to fix the ball latch on any surface
- Use ball latch support 50
- part no. 21.1139/0 if necessary



BALL LATCH 70



TECHN. DATA / ITEMS SUPPLIED

- Brass

- Holding force adjustable 50 - 150 N

- Fastening kit

- Weight

0,095 kg

APPLICATIONS

- Quick attachment of easy to remove panel elements

- Stop and catch for sliding doors, swing doors, lids



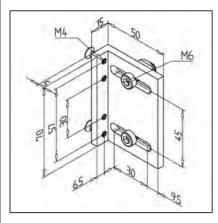


ASSEMBLY

- Use fastening kit

- Use ball latch support 70 part no. 21.1137/0 if necessary.

BALL LATCH SUPPORT 70



TECHN. DATA / ITEMS SUPPLIED

0,050 kg

- Aluminium, natural, anodized

- Fastening kit

- Weight



APPLICATIONS

- Attachment of ball latch 70 in doors, lids, removable panel elements

- Door stop

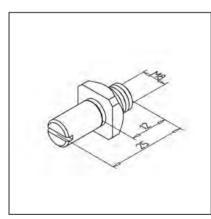
- If using profile 32, ball latch support has to be shortened

part no. 21.1137/0

ASSEMBLY

- Use fastening kit

SNAP BOLT 25



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

- With square nut, zinc plated

- Weight

- Stainless version part no. 21.1758/1

0,010 kg

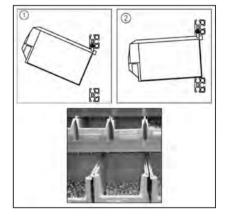


APPLICATIONS

- Attachment of grab trays in work benches between 2 profiles

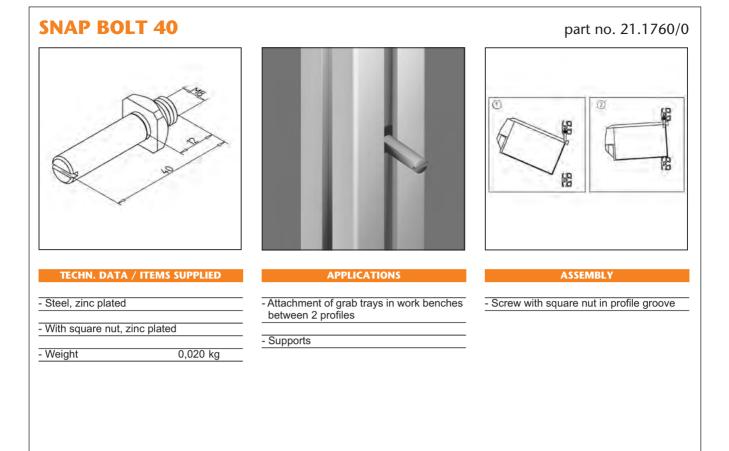
- Supports



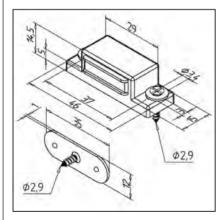


ASSEMBLY

- Use fastening kit



MAGNETIC CATCH



TECHN. DATA / ITEMS SUPPLIED

Housing PA 6, black
Holding plate, steel, zinc plated
Fastening kit

- Weight	0,021 kg
 Holding force 	20 N



APPLICATIONS

- Quick catch for swing doors

- Attachment of light panel elements

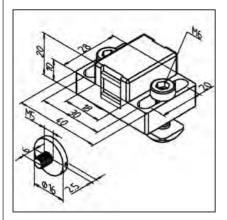
3.4 3.4 37 46

part no. 21.1753/0

ASSEMBLY

- Mount with fastening kit on profile surface

MAGNETIC CATCH N





TECHN. DATA / ITEMS SUPPLIED

- Housing PA 6, grey

- Holding plate, steel, zinc plated

- Fastening kit

- Weight 0,060 kg

- Holding force: 30 - 40 N



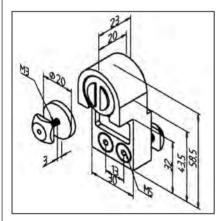
- Stop and quick catch for swing doors

- Fastening of light panel elements

part no. 21.1741/0 **ASSEMBLY** - Use fastening kit

 Opposite plate directly on profile surface or panel element; thread M5 required

MAGNETIC CATCH S



TECHN. DATA / ITEMS SUPPLIED

0,080 kg

- Housing PA, grey

- Holding plate, steel, zinc plated

- Fastening kit
- Weight

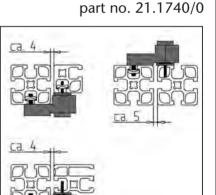
- Holding force: 50 - 75 N



APPLICATIONS

- Stop and quick catch for swing doors

- Fastening of light panel elements



ASSEMBLY

- Use fastening kit

- Opposite plate directly on profile surface or panel element; thread M3 required

MAGNET PLATE S

M4

- Steel, zinc-plated

- Fastening kit

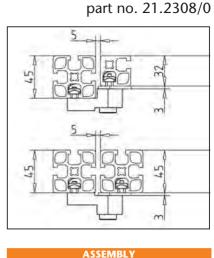
- Weight



TECHN. DATA / ITEMS SUPPLIED **APPLICATIONS**

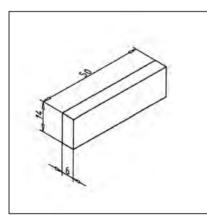
0,031 kg

- Magnetic catch S, part no. 21.1740/0



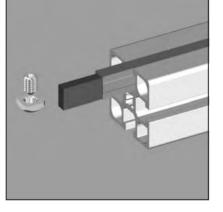
- Fasten on profile groove - No drilling necessary

MAGNET 6 X 14 X 50



TECHN. DATA / ITEMS SUPPLIED

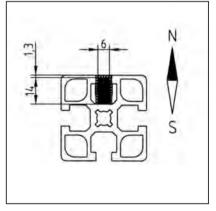
- 1 magnet, zinc-plated		
- Energy density BHmax=	263 kJ/m ³	
- Magnetic remanence, Br =	1170 mT	
- Coercive force, JHc =	955 kA/m	
- max. service temperature	+120 °C	
- Without fastening kit		
- Weight	0.033 kg	
0		
- Attention: Electric- and memory devices can be faulted by the magnet		



APPLICATIONS

- Adhesive magnet for tools

- Below conveyors as guide, for magnetic transported material or higher conveyor speeds



part no. 21.0032/0

ASSEMBLY

- Snap or slip the cover profile into profile groove

- Insert magnet into t-slot

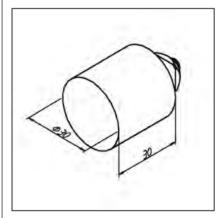
- For fastening: (mighty recommended) Use end cap AL, set screw with square nut or t-slot bar

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MINITEC PROFILE SYSTEM

STOPPER 25		part no. 21.1759/0
Contraction of the second seco		
TECHN. DATA / ITEMS SUPPLIED	APPLICATIONS	ASSEMBLY
- NBR, black	- Stop for doors, linear guides	- Fix with square nut M6 in profile groove
- Square nut M6, zinc plated		
- Weight 0,020 kg		

STOPPER 30

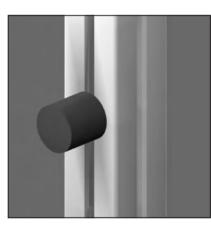


TECHN. DATA / ITEMS SUPPLIED

- NBR, black

- Square nut M8, zinc plated

- Weight 0,060 kg



APPLICATIONS

- Stop for heavy doors, linear gudes

part no. 21.1759/1

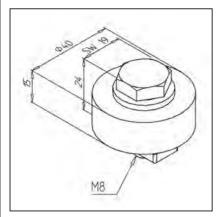


ASSEMBLY

- Fix with square nut M8 in profile groove

part no. 21.2301/0

STOPPER 40





APPLICATIONS

- Stop for heavy doors, linear guides

ASSEMBLY

- Fix with square nut in profile groove and tighten stopper

TECHN. DATA / ITEMS SUPPLIED

0,0553 kg

- NBR, black

- Square nut M8, zinc-plated

- Weight

BASE AND TRANSPORT PLATES

BASE AND TRANSPORT PLATE 30 X 60



Items supplied

- Aluminium, powder coated, grey
- with fastening kit

Application

Mounting of adjustable feet on profiles 90 x 32 UL

Assembly

Connection with fastening kit on profile face

THREAD	THICKNESS	WEIGHT	PART NO.
M8	15 mm	0.085 kg	21.2114/0
M10	15 mm	0.084 kg	21.2115/0
M12	15 mm	0.082 kg	21.2116/0

BASE AND TRANSPORT PLATE 32 X 90



Items supplied

- Aluminium, powder coated, grey
- with fastening kit

Application

Mounting of adjustable feet on profiles 90 x 32 UL

Assembly

Connection with fastening kit on profile face

THREAD	THICKNESS	WEIGHT	PART NO.
M8	15 mm	0.164 kg	21.1356/0
M10	15 mm	0.162 kg	21.1357/0
M12	15 mm	0.160 kg	21.1358/0

BASE AND TRANSPORT PLATE 45 X 90



Items supplied

- Aluminium, powder coated, grey
- with fastening kit

Application

Mounting of adjustable feet on profiles 45 x 90

Assembly

Connection with fastening kit on profile face

THREAD	THICKNESS	WEIGHT	PART NO.
M10	15 mm	0.164 kg	21.1038/0
M12	15 mm	0.162 kg	21.1039/0
M16	15 mm	0.160 kg	21.1040/0
M20	15 mm	0.156 kg	21.1047/0

BASE AND TRANSPORT PLATES

BASE AND TRANSPORT PLATE 90 X 90



Items supplied

- Aluminium, powder coated, grey
- with fastening kit

Application

Mounting of adjustable feet on profiles 90 x 90

Assembly

Connection with fastening kit on profile face

THREAD	THICKNESS	WEIGHT	PART NO.
M10	15 mm	0.332 kg	21.1041/0
M12	15 mm	0.330 kg	21.1042/0
M16	15 mm	0.345 kg	21.1043/0
M20	15 mm	0.290 kg	21.1057/0

BASE AND TRANSPORT PLATE 90 R 90°



Items supplied

- Aluminium, powder coated, grey
- with fastening kit

Application

Mounting of adjustable feet on profiles 90 R 90°

Assembly

Connection with fastening kit on profile face

THREAD	THICKNESS	WEIGHT	PART NO.
M10	15 mm	0.277 kg	21.0009/0
M12	15 mm	0.275 kg	21.0010/0
M16	15 mm	0.272 kg	21.0011/0
M20	15 mm	0.268 kg	21.0012/0

FEET PA



Items supplied

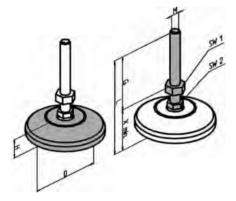
- Plate PA, grey
- Anti skid insert NBR
- Threaded bolt, steel, zinc plated
- Locknut, steel, zinc plated
- All bolts are suitable for all plates

Application

- Levelling of machine bases or constructions
- Boards, partitions, enclosures
- Tables, conveyors and work stations

Assembly

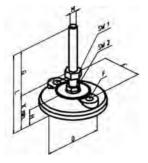
- Directly on core boring of profiles, reborable up to M12
- On larger threads use base and transportplate
- For profiles 45 x 90 und 90 x 90 a base and transport plate is required, if the feet are to be positioned centrally.



THREADED		PLATE								
BOLT	Ø 30	Ø 45	Ø 60	Ø 80						
M8	21.1851/0	21.1871/0	21.1881/0	21.1891/0						
M10	21.1852/0	21.1872/0	21.1882/0	21.1892/0						
M12	-	21.1873/0	21.1883/0	21.1893/0						
M16	-	21.1874/0	21.1884/0	21.1894/0						

PLATE			THREADED BOLT							
D mm	H mm	max. load	М	G	Х	SW1	SW2	L		
30	20	300 kg	8	33,5	38.5	13	14	72,5		
45	20	500 kg	10	42	40.5	17	14	82,5		
60	20	1000 kg	12	90	42.5	19	14	132,5		
80	20	1000 kg	16	107	45.5	24	17	152,5		

FEET PA WITH ATTACHMENT BORES



Items supplied

- Plate PA, grey
- Anti skid insert NBR
- Threaded bolt, steel, zinc plated
- Locknut, steel, zinc plated
- Feet with load 1800 kg are supplied without anti skid insert NBR

PART NO.	COLOUR	М	G	Х	SW1	SW2	L	E	F	D	MAX. LOAD
21.1846/0	grey	10	82	40	17	14	122	74	Ø9	100	1000 kg
21.1847/0	grey	12	140	42	19	14	182	74	Ø9	100	1000 kg
21.1848/0	grey	16	137	45	24	17	182	74	Ø9	100	1000 kg

FEET PA



Items supplied

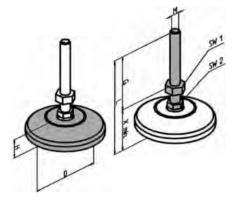
- Plate PA, grey
- Anti skid insert NBR
- Threaded bolt, steel, zinc plated
- Locknut, steel, zinc plated
- All bolts are suitable for all plates

Application

- Levelling of machine bases or constructions
- Boards, partitions, enclosures
- Tables, conveyors and work stations

Assembly

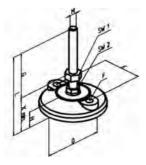
- Directly on core boring of profiles, reborable up to M12
- On larger threads use base and transportplate
- For profiles 45 x 90 und 90 x 90 a base and transport plate is required, if the feet are to be positioned centrally.



THREADED	PLATE								
BOLT	Ø 30	Ø 45	Ø 60	Ø 80					
M8	21.1851/0	21.1871/0	21.1881/0	21.1891/0					
M10	21.1852/0	21.1872/0	21.1882/0	21.1892/0					
M12	-	21.1873/0	21.1883/0	21.1893/0					
M16	-	21.1874/0	21.1884/0	21.1894/0					

PLATE			THREADED BOLT							
D mm	H mm	max. load	М	G	Х	SW1	SW2	L		
30	20	300 kg	8	33,5	38.5	13	14	72,5		
45	20	500 kg	10	42	40.5	17	14	82,5		
60	20	1000 kg	12	90	42.5	19	14	132,5		
80	20	1000 kg	16	107	45.5	24	17	152,5		

FEET PA WITH ATTACHMENT BORES



Items supplied

- Plate PA, grey
- Anti skid insert NBR
- Threaded bolt, steel, zinc plated
- Locknut, steel, zinc plated
- Feet with load 1800 kg are supplied without anti skid insert NBR

part no.	COLOUR	М	G	Х	SW1	SW2	L	E	F	D	max. load
21.1846/0	grey	10	82	40	17	14	122	74	Ø9	100	1000 kg
21.1847/0	grey	12	140	42	19	14	182	74	Ø9	100	1000 kg
21.1848/0	grey	16	137	45	24	17	182	74	Ø9	100	1000 kg

FURNITURE WHEEL WITH LOCKING DEVICE

TECHN. DATA / ITEMS SUPPLIED

-	Housing,	polyamide,	black

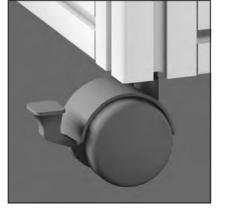
- Double wheel, polyamide, black with slide bearing

30 kg

- Fastening kit

- Weight 0,080 kg

- Load max.



APPLICATIONS

- Light movable tables

- Movable file box

- Office furniture, Tool boxes

part no. 21.1153/0

ASSEMBLY

- Directly on central bore of the vertical profile
- If wheel is to be positioned centrally, for profiles 45 x 90 or bigger, a base plate with thread M8 is required

FURNITURE WHEEL WITHOUT LOCKING DEVICE

TECHN. DATA / ITEMS SUPPLIED

- Housing, polyamide, black

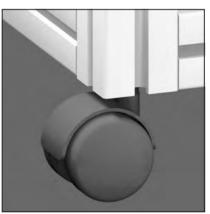
- Double wheel, polyamide, black with slide bearing

30 kg

- Fastening kit

- Weight 0,076 kg

- Load max.



APPLICATIONS

- Light movable tables

- Movable file box

- Office furniture, Tool boxes

part no. 21.1105/0

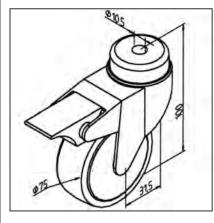
ASSEMBLY

- Directly on central bore of the vertical profile

- If wheel is to be positioned centrally, for profiles 45 x 90 or bigger, a base plate with thread M8 is required

WHEEL SWIVEL TYPE WITH BRAKE D 75 X 100

part no. 21.1120/0



TECHN. DATA / ITEMS SUPPLIED

- Further constructions on demand

0,250 kg 50 kg

- Steel, zinc plated

- Tire, rubber, grey

- Fastening kit

- Weight

- Load max.



APPLICATIONS

- Movable tables

- Material-pillars

- Show cases, etc.

TR
Q
ASSEMBLY

- Directly on central bore of the vertical profile; thread M10 required

- With profiles 45 x 90 or bigger use base plate M10

WHEEL SWIVEL TYPE WITHOUT BRAKE D 75 X 100

275 C 715

TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated - Tire, rubber, grey - Fastening kit - Weight 0,372 kg - Load max. 50 kg

- Further constructions on demand

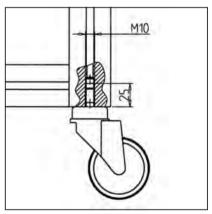


APPLICATIONS

- Movable tables

- Material-pillars

- Show cases, etc.



part no. 21.1118/0

ASSEMBLY

- Directly on central bore of the vertical profile; thread M10 requested
- If the wheel is to be positioned centrally, for profiles 45 x 90 or bigger a base plate is required

WHEEL RIGID TYPE part no. 21.1475/0 TECHN. DATA / ITEMS SUPPLIED **APPLICATIONS** ASSEMBL - Housing, steel - Material-pillars - With fastening kit from supply schedule directly on profile groove - Tire, rubber, grey - Frames - With fixing plate for wheel rigid type **part no. 21.1476/0** on profile - Fastening kit - Movable tables 0,350 kg - Weight - Load max. 50 kg - Further constructions on demand

BASE AND TRANSPORT PLATE 45 X 45 VA M10

TECHN. DATA / ITEMS SUPPLIED

- Stainless steel

- Fastening kit

- Weight 0,23 kg

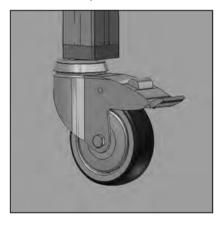
APPLICATIONS

- Profile 45 x 45

- Profile 45 x 45 VA

- Height compensation for mounting of swivel wheels in combination with wheels rigid type

- For using feet M10



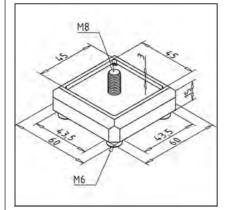
part no. 21.2059/0

ASSEMBLY

- Connect with fastening kit on profile face

FIXING PLATE 45 VA FOR WHEEL RIGID TYPE

part no. 21.2058/0







- Connect with fastening kit on profile face

TECHN. DATA / ITEMS SUPPLIED

- Stainless steel

- Fastening kit

tit

0,36 kg

- Weight

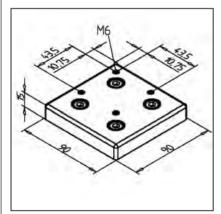
APPLICATIONS

- Profile 45 x 45

- Profile 45 x 45 VA

- For fastening of wheel rigid type on profile face 45 x 45 and 45 x 45 VA

FIXING PLATE FOR WHEEL RIGID TYPE

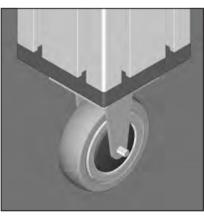


TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit

- Weight 0,330 kg



APPLICATIONS

- For fastening of wheel Ø 75 x 100 rigid type **part no. 21.1475/0** on profile face 90 x 90 part no. 21.1476/0

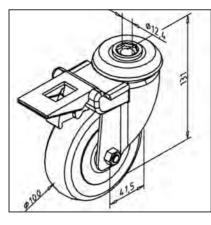


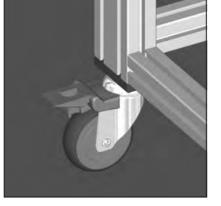
ASSEMBLY

- Use fastening kit

WHEEL SWIVEL TYPE WITH BRAKE D 100 X 131

part no. 21.0031/0





- Steel, zinc plated - Tire, rubber - Fastening kit 0,75 kg - Weight - Load max. 100 kg - Further models on demand

TECHN. DATA / ITEMS SUPPLIED

APPLICATIONS	

- Material-pillars

- Movable tables

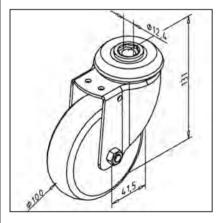
- Show cases, etc.

M12 E

ASSEMBL

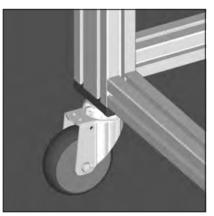
- Mount directly on central bore of the vertical profile; drill thread M12
- If the wheel is to be positioned centrally, for profiles 45 x 90 or 90 x 90 a base plate is required

WHEEL SWIVEL TYPE WITHOUT BRAKE D 100 X 131 part no. 21.0030/0



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated			
- Tire, rubber			
- Fastening kit			
	0.051		
- Weight	0,65 kg		
- Load max.	100 kg		
- Further models on demand			

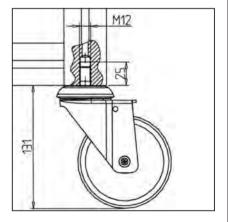


APPLICATIONS

- Movable tables

- Material-pillars

- Show cases, etc.



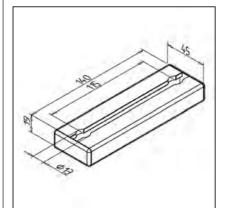
ASSEMBLY

- Directly on central bore of the vertical profile; thread M10 requested

- If the wheel is to be positioned centrally, for profiles 45 x 90 or 90 x 90 a base plate is required

FLOOR MOUNTING PLATE 45

part no. 21.1730/0



TECHN. DATA / ITEMS SUPPLIED

- Profile 19 x 45

- End caps, grey

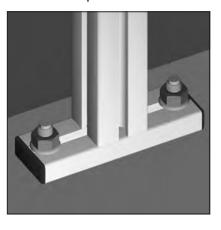
- Weight

- Without fastening kit



APPLICATIONS

- Floor mounting of pillar 45 x 45

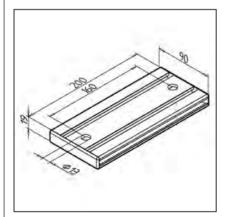


ASSEMBLY

- On profile side: MiniTec power-lock fastener
- On floor side: 2 floor anchors part no. 21.1082/0

FLOOR MOUNTING PLATE 90

0,130 kg



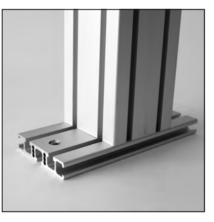
TECHN. DATA / ITEMS SUPPLIED

- Profile 19 x 90
- End caps, grey

- Without fastening kit

- Weight

0,465 kg



APPLICATIONS

- Floor mounting of pillars 45 x 90 or 90 x 90

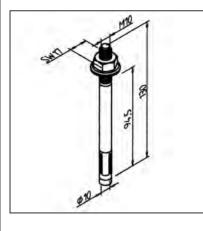
part no. 21.1733/0



ASSEMBLY

- On profile side: 2 or 4 MiniTec power-lock fasteners
- On floor side: 2 floor anchors
- part no. 21.1082/0

FLOOR ANCHOR 10



TECHN. DATA / ITEMS SUPPLIED

0,084 kg

- Steel, zinc plated

- Ø 10

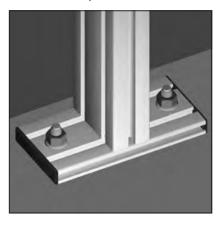
- Complete with nut and washer

- Weight



APPLICATIONS

 Attachment of pillars to floor or wall. To be used together with angle bracket for floor fastening, levelling plate or floor mounting plate



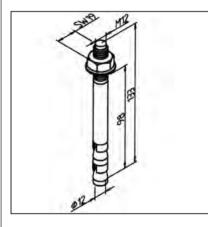
part no. 21.1082/0

ASSEMBLY

- Fit bore in the bottom

- Use floor anchor in connection with angle, levelling plate or floor mounting plate

FLOOR ANCHOR 12



TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

- Ø 12

- Complete with nut and washer

- Weight

0,116 kg



APPLICATIONS

 Attachment of pillars to floor or wall. To be used together with angle bracket for floor fastening, levelling plate or floor mounting plate part no. 21.1115/0

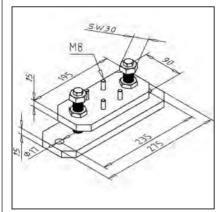


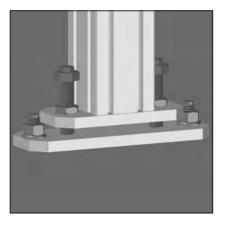
ASSEMBLY

- Fit bore in the bottom

- Use floor anchor in connection with angle, levelling plate or floor mounting plate

LEVELLING PLATE 90 ST





APPLICATIONS

- Exact layout of heavy structures with post profile 90x90

part no. 21.0976/0

TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

- With fastening kit for profile

- With levelling elements

- Without dowels

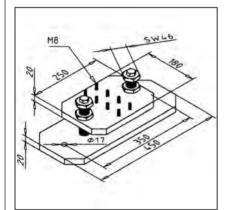
- Weight

ASSEMBLY

- Fasten footplate to the floor using a high performance anchor
- Fasten profile panel to the profile with the fastening kit in the scope of delivery
- Turn the M20 screw to set the height and secure it with the counter nut

LEVELLING PLATE 180 ST

5,120 kg



TECHN. DATA / ITEMS SUPPLIED

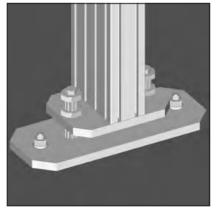
20,347 kg

- Steel, zinc plated
- With fastening kit for profile

- With levelling elements

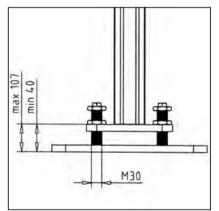
- Without dowels

- Weight



APPLICATIONS

- Exact layout of heavy structures with post profile 90x180



part no. 21.0977/0

ASSEMBLY

- Fasten foot plate to the floor using a high performance anchor
- Fasten profile panel to the profile with the fastening kit
- Turn the M20 screw to set the height and secure it with the counter nut

ANGLE BRACKET FOR FLOOR FASTENING

TECHN. DATA / ITEMS SUPPLIED

0,360 kg

- Steel, powder coated, grey

- With fastening kit for profile

- Weight



APPLICATIONS

- Securing and fastening of constructions on floor or wall

055 055 055 055 055

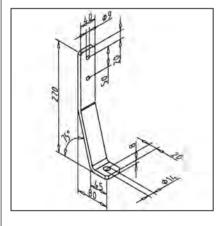
part no. 21.1112/0

ASSEMBLY

- On profile side: Use hex socket cap screws M8 x 20 5 A/F
- On floor side: Use floor anchor 12 part no. 21.1115/0

- Also suitable for subsequent mounting

ANGLE BRACKET FOR FLOOR FASTENING



TECHN. DATA / ITEMS SUPPLIED

- Steel, powder coated, grey

- With fastening kit for profile

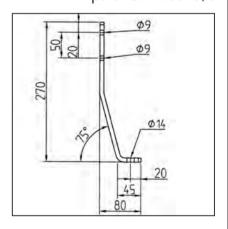
- Weight 0,757 kg



APPLICATIONS

- Securing and fastening of constructions on floor or wall

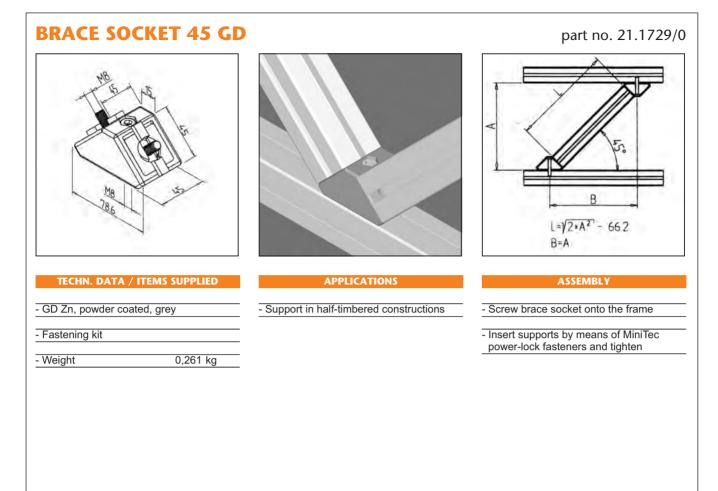
part no. 21.0015/0



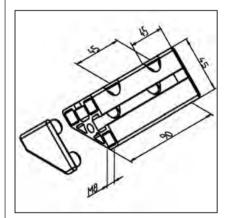
ASSEMBLY

- On profile side: Use hex socket cap screws M8 x 20 A/F 5
- On floor side: Use floor anchor 12 part no. 21.1115/0

- Also suitable for subsequent mounting



BRACE SOCKET 45° / 90



TECHN. DATA / ITEMS SUPPLIED

- Aluminium profile 45 / 45°

- End caps, grey

- Fastening kit

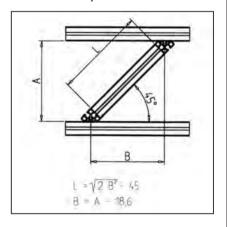
- Weight 0,175 kg



APPLICATIONS

- Support in half-timbered constructions

part no. 21.1727/0



ASSEMBLY

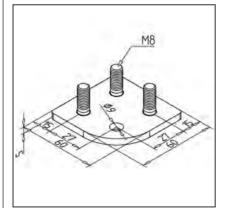
- Screw brace socket onto the frame

 Insert supports by means of MiniTec power-lock fasteners and tighten

- Fix end caps

BASE AND TRANSPORT PLATE 45 X 45 VA M10

part no. 21.0038/0



TECHN. DATA / ITEMS SUPPLIED

kg

- Stainless steel

- Fastening kit

- Weight



APPLICATIONS

- Profile 45 x 45

 Height compensation for mounting of swivel wheels in combination with wheels rigid type

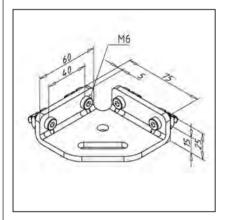
- For using feet M10



ASSEMBLY

- Connect with fastening kit on profile face

ADAPTER FLANGE 30



TECHN. DATA / ITEMS SUPPLIED

- Steel, powder coated grey

- Fastening kit

- Weight 0,261 kg



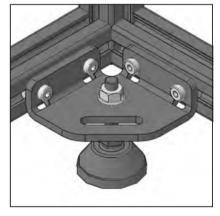
APPLICATIONS

- Strengthening of profile constructions

- Attachment of internal feet or wheels

- Floor mounting and levelling of frames

part no. 21.2120/0

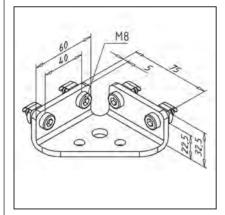


ASSEMBLY

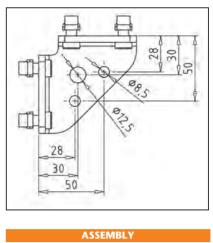
- Use fastening kit;
- screw onto profile groove

ADAPTHER FLANGE 45

part no. 21.2300/0







- Use fastening kit; screw onto profile

groove

TECHN. DATA / ITEMS SUPPLIED

- Steel, powder coated, grey

- Fastening kit

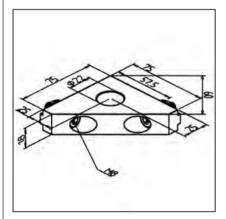
- Weight 0,311 kg

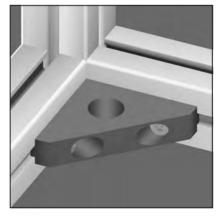
- Strengthening of profile constructions - Attachment of internal feets or rollers

APPLICATIONS

- Floor mounting and levelling of frames

CORNER 90





TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural anodized

- Fastening kit

- Weight 0,170 kg



- Strengthening of constructions

- Attachment of internal feet

- Floor mounting and levelling of frames

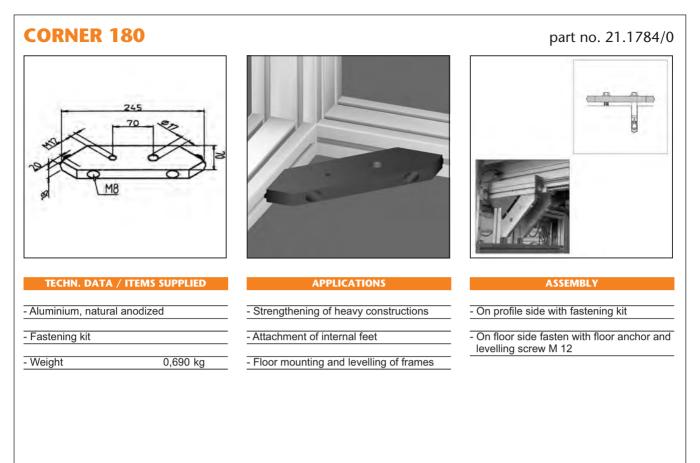
0 0

ASSEMBLY

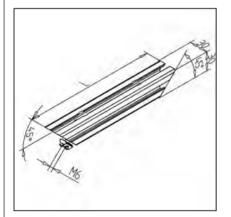
- On profile side with fastening kit

- On floor side fasten with floor anchor

part no. 21.1783/0



STRENGTHENING ELEMENT 30



TECHN. DATA / ITEMS SUPPLIED

- Profile 30 x 30, ready for use

 Both ends cut at 45° with counter-bores for fastening kit

300 mm

- Fastening kit

- Weight 0,213 kg

- Length



APPLICATIONS

- Reinforcement of constructions in half-timbered principle

part no. 21.2110/0

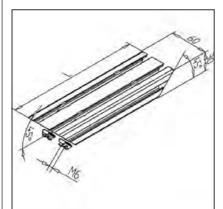


ASSEMBLY

- Screw onto profile groove; use fastening kit

STRENGTHENING ELEMENT 30 X 60

part no. 21.2210/0





APPLICATIONS

- Reinforcement of constructions in

I	13 to

TECHN. DATA / ITEMS SUPPLIED

- Profile 30 x 60, ready for use - Both ends cut at 45° with counter-bores

for fastening kit

- Fastening kit

- Weight 0,338 kg

- Length

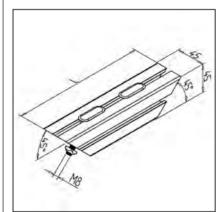
half-timbered principle

ASSEMBLY

- Screw onto profile groove; use fastening kit

STRENGTHENING ELEMENT 45

300 mm



TECHN. DATA / ITEMS SUPPLIED

- Profile 45 x 45, ready for use

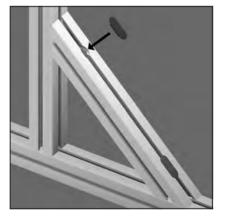
- Both ends cut at 45° with counter-bores for fastening kit

360 mm

- Fastening kit

- Weight 0,870 kg

- Length



APPLICATIONS

- Reinforcement of constructions in halftimbered principle



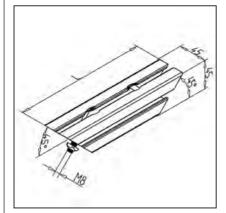
part no. 21.1761/0

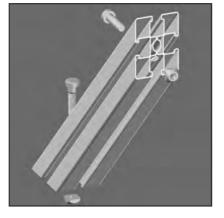
ASSEMBLY

- Screw onto profile groove, use fastening kit

STRENGTHENING ELEMENT 45 VA

part no. 21.1706/0





APPLICATIONS

- reinforcement profile construction, halftimbered building

A STATE

ASSEMBLY

- Screw with fastening kit on profile groove of the frame construction

TECHN. DATA / ITEMS SUPPLIED - Profile 45 x 45, ready for use

- Both ends cut at 45° with counter-bores

for fastening kit

- Fastening kit

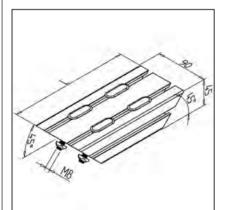
- Weight 0,890 kg

- Length 360 mm

- Other lengths and profiles on request

- Please specify dimension L

STRENGTHENING ELEMENT 90



TECHN. DATA / ITEMS SUPPLIED

- Profile 45 x 90, ready for use

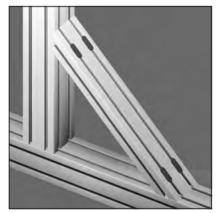
- Both ends cut at 45° with 4 counter-bores for fastening kit

360 mm

- Fastening kit

- Weight 1,416 kg

- Length



APPLICATIONS

- Reinforcement of constructions; essentially in half-timbered principle

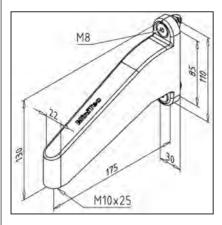


part no. 21.1762/0

ASSEMBLY

 Screw onto profile groove, use fastening kit

CANTILEVER FOOT 175



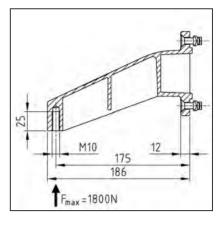
- Aluminium GD, powder coated, grey

0,368 kg



APPLICATIONS

- Arrangement of frames and fastening of feet



part no. 21.2191/0

DATA / ITEMS SUPPLIED

ASSEMBL

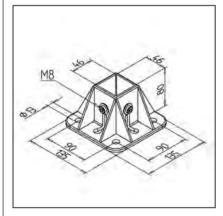
- Mounting onto profile strut with fastening kit
- Fastening of wheel swivels, feet and screws M10

FOOT 45 GD

TECHN

- Fastening kit

- Weight

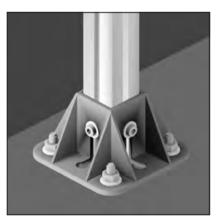


TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit for profile

0,587 kg - Weight

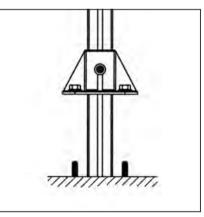


APPLICATIONS

- Suitable for profiles up to dimension 45 x 45
- Floor mounting of guard units, information plates and frames

- As connection element for wall attachment

part no. 21.1731/0

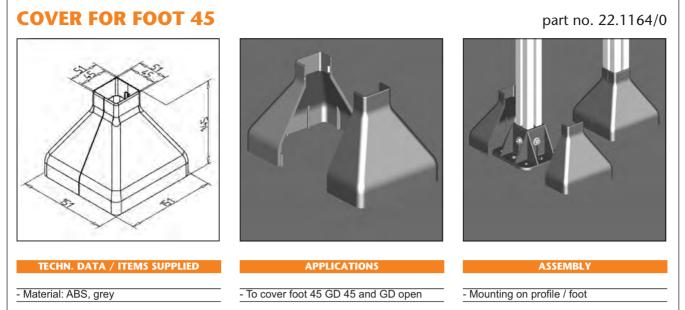


ASSEMBLY

- Insert profile into foot

- Insert the square nut with spring steel sheet into the profile groove; preassemble the screws
- Fix the foot on the floor or on the wall; for this purpose use high-performance anchors or universal dowels with hexagon screws

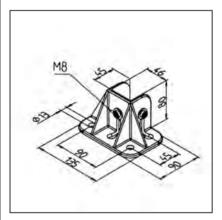
- Tighten the fastening screws



- Weight 0,16

0,166 kg

FOOT 45 GD OPEN

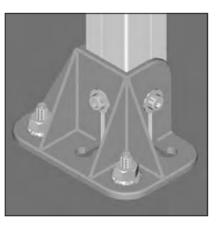


TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit for profile

- Weight 0,356 kg



APPLICATIONS

- Floor mounting of guard units, information plates and frames
- As connection element for wall attachment; can be used both-sided

part no. 21.1738/0



ASSEMBLY

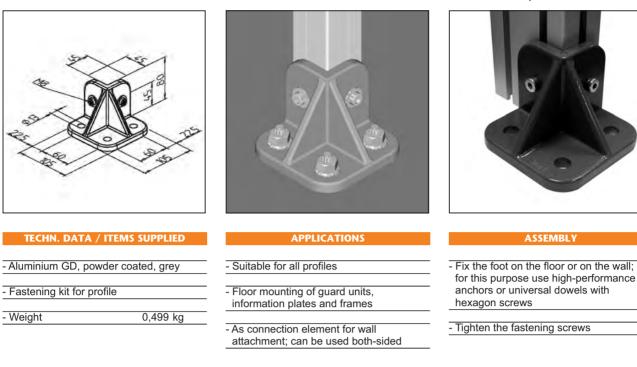
- Insert profile into foot

- Insert the square nut with spring steel sheet into the profile groove; preassemble the screws
- Fix the foot on the floor or on the wall; for this purpose use high-performance anchors or universal dowels with hexagon screws

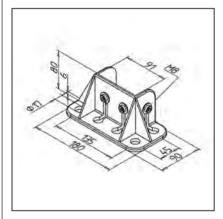
⁻ Tighten the fastening screws

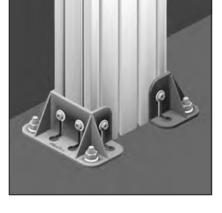
FOOT 45 GD S

part no. 21.1723/0



FOOT 90 GD





TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Fastening kit for profile

- Weight 0,465 kg

APPLICATIONS

- Suitable for profiles up to dimension 45 x 90, 90 x 90 and 90 x 180
- Floor fastening of guard units, information plates and frames
- Connection element for wall attachment; can be used both-sided

part no. 21.1737/0

ASSEMBLY

- Insert profile into foot

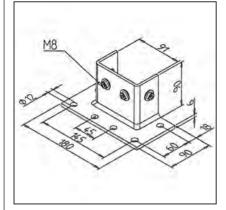
- Insert the square nut with spring steel sheet into the profile groove; preassemble the screws
- Fix the foot on the floor or on the wall; for this purpose use high-performance anchors or universal dowels with hexagon screws
- Tighten the fastening screws

FOOT 90 S

- Steel, zinc plated

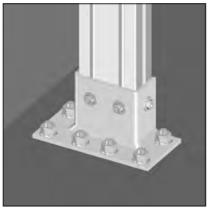
- Weight

- Fastening kit for profile



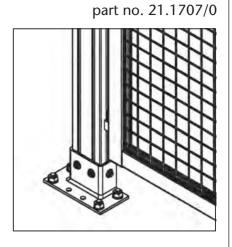
TECHN. DATA / ITEMS SUPPLIED

1,438 kg



APPLICATIONS

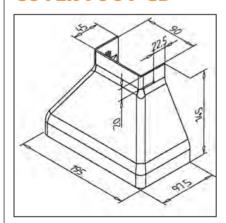
- Suitable for profiles up to dimension 45 x 90, 90 x 90 and 90 x 180
- Floor mounting of guard units, information plates and frames
- Connection element for wall attachment; can be used for both sides

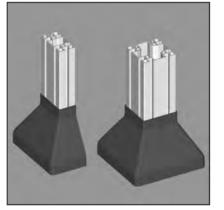


ASSEMBLY

- Insert spring-loaded square nuts in profile grooves and slide to fixing position
- Fasten the foot on the floor or on the wall; for floor mounting use high performance anchors 12 mm or universal dowels with hexagon screws M12
- Tighten the screws on profile

COVER FOOT GD





TECHN. DATA / ITEMS SUPPLIED

- ABS, grey

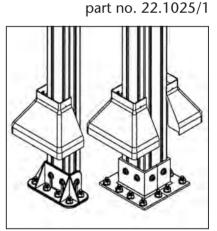
- Weight 0,131 kg

APPLICATIONS

- Suitable for foot 90 GD and 90 S

- Less dust and dirt deposit on the foot

- Easy to clean



ASSEMBLY

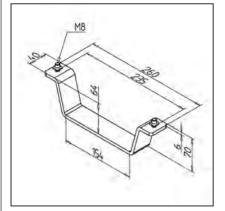
- Expand the cover manually and clip in the slots of the profile

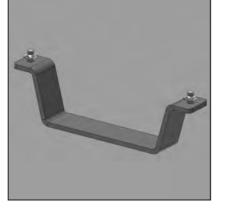
- Push the cover downwards

- Laterally fix with self tapping screw 3,4 x 16; in addition drill Ø 2,5 on the marked place

CLAMP FOR TRANSPORTATION

part no. 26.1101/0





APPLICATIONS

- For fixation of goods during transport with forklift



TECHN. DATA / ITEMS SUPPLIED

0,708 kg

- 1 clamp

- Steel, zinc-plated

- Fastening kit

- Weight



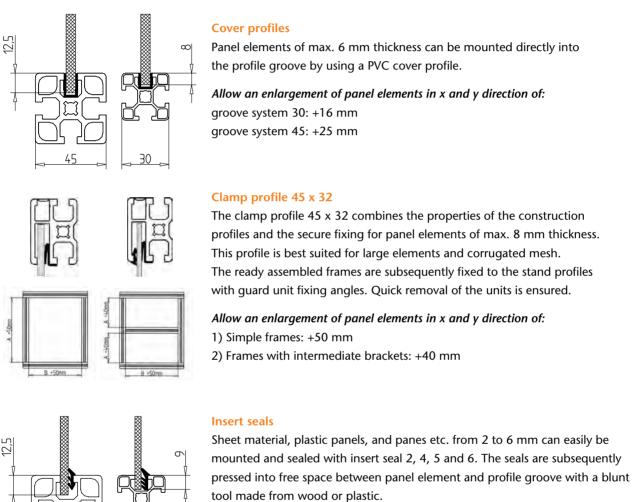
ASSEMBLY

- Fastening on bottom side of construction with fastening kit
- Use always in pairs

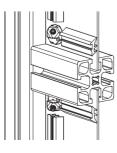
FITTING OF PANEL ELEMENTS

MOUNTING ELEMENTS INTO THE PROFILE GROOVE

There are two assembly modes that have to be distinguished: the mounting of elements into the profile groove and the subsequent attachment of panel elements. The mounting of elements into the groove has to be pre-planned. It is recommended to put together elements to a complete frame that can be fitted into existing constructions. This assembly method is of particularly use for large panel elements, corrugated mesh and sealing constructions. Subsequent mounting of panel elements is easier to perform and causes less damage.



Allow an enlargement of panel elements in x and y direction of: groove system 30: +18 mm with Insert seal 30 groove system 45: +25 mm with Insert seal 2/4/5/6



30

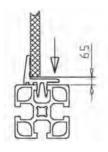
Grounding / conductive connection

Please use our grounding block part no. 22.1163/0 for conductive connections of aluminum or steel plates with profile frames (thickness of 1.5 mm - 2.5 mm).

One grounding block is sufficient for each surface element. In conjunction with our plug seal 2, the sheet is fixed in panel frames.

2

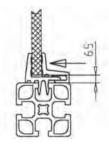
SUBSEQUENT MOUNTING OF PANEL ELEMENTS

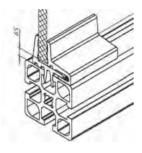


Clamp profiles PVC

For easy fitting of panel elements of all kinds into existing frames without free space between frame and panel. Suitable for panel elements of max. 8 mm, also for corrugated mesh.

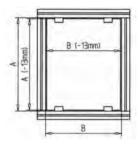
Calculation of pane size: Clear opening - 13 mm





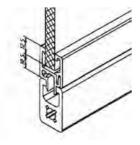
Panel holder

For easy and economic fitting of panel elements into existing frames. The panel holders made are of two elements. Best suited for all panel elements of max. 8 mm thickness, except for corrugated mesh.



Calculation of pane size:

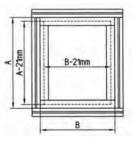
Clear opening - 13 mm (6,5 mm free space circumferentially)



Panel clamp profile

For an easy and cost efficient assembling of panel elments (also for subsequent assembling). No mitre cuts necessary. Suitable for panel elements up to a thickness of 8 mm.

For a thight fastening of panel elements < 8 mm use insert seal.



FITTING OF PANEL ELEMENTS

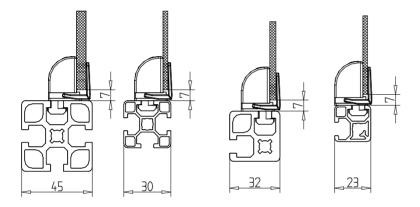
SUBSEQUENT MOUNTING OF PANEL ELEMENTS

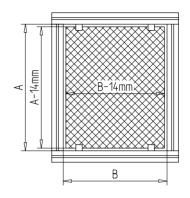
Clamp block

Simple and economical fastening of panel elements. The clamp block consists of block and clip. Suitable for all panel elements from 2 - 6 mm thickness. Not for mesh.

Calculation of pane size:

Clear opening - 14 mm (7 mm free space circumferentially)



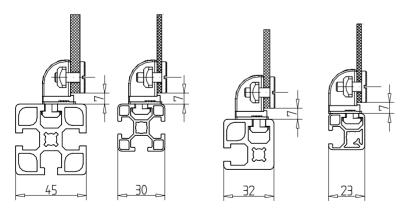


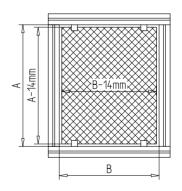
Screw block

Suitable for all kind of panel elements up to 6 mm thickness, except mesh.

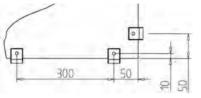
Calculation of pane size:

Clear opening - 14 mm (7 mm free space circumferentially)

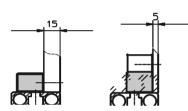




SUBSEQUENT MOUNTING OF PANEL ELEMENTS



panel element.



Ø6.5

300-500

007-006

Multiblock

Thread socket

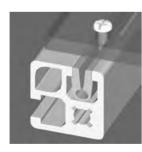
The multiblocks are installed in the clear space of the frame construction at a spacing of approx. 300 mm using cylinder-head screws M6 and rhombus nuts. Best suited for compound sheet materials. Material of 5-15 mm can be attached bundled. Select screw form and length appropriate to type and thickness of panel element. Bore holes for the attachment screws in the panel elements 6.5 mm in diameter and with 10 mm distance to edge.

Secure and easy fastening of panel elements of all kinds, except for corrugated

mesh. Insert the socket into profile grooves in 300 mm grid. Select screw form and length appropriate to thickness and type of

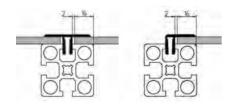
Calculation of pane size:

Clear opening - 4 mm (~2 mm free space circumferentially)



Screw socket profile

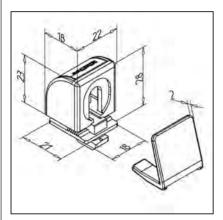
Material: PVC Easy fastening of panels or panel elements at any point withcomercial-type selftapping screws.



Panel-clamping profile

Suitable for panel elements from 2 to 10 mm. Insert fixing bores Ø 5.5 mm for set screw M5 in ~250 mm grid. Press into profile groove and fix with set screw M5 x 16. Best suited for panels, corrugated mesh and expanded metal.

PANEL CLAMP BLOCK 23

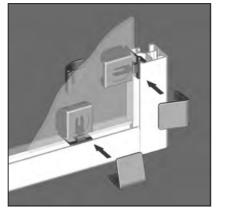


TECHN. DATA / ITEMS SUPPLIED

0,008 kg

- ABS grey

- Weight



APPLICATIONS

- Suitable for all profiles 30

- Subsequent fitting of panel elements from 2 to 6 mm thickness

- Circulating air gap 7 mm

-	part no. 22.1235/
Ç	

ASSEMBLY

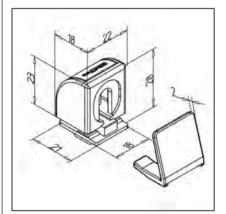
- Insert socket into profile groove

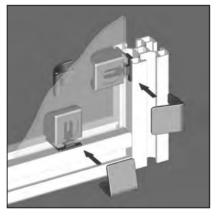
- Insert panel elements

- Press on clip

- **Disassembly:** Lift clip with a screwdriver

PANEL CLAMP BLOCK 30





TECHN. DATA / ITEMS SUPPLIED

0,008 kg

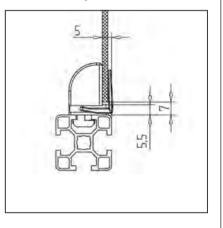
- Suitable for all profiles 30

- Subsequent fitting of panel elements from 2 to 6 mm thickness

APPLICATIONS

- Circulating air gap 7 mm

part no. 22.1230/0



ASSEMBLY

- Insert socket into profile groove

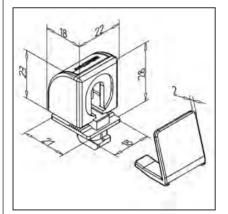
- Insert panel elements
- Press on clip
- Disassembly:
- Lift clip with a screwdriver

- ABS grey

- Weight

PANEL CLAMP BLOCK 32

part no. 22.1245/0

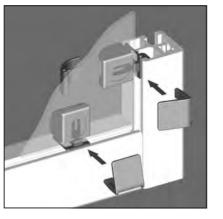


TECHN. DATA / ITEMS SUPPLIED

0,008 kg

- ABS grey

- Weight



APPLICATIONS

- Suitable for all profiles 30

- Subsequent fitting of panel elements from 2 to 6 mm thickness

- Circulating air gap 7 mm

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ASSEMBLY

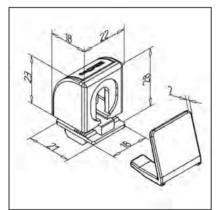
- Insert socket into profile groove

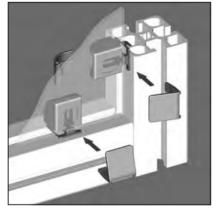
- Insert panel elements

- Press on clip

- Disassembly: Lift clip with a screwdriver

PANEL CLAMP BLOCK 45





TECHN. DATA / ITEMS SUPPLIED

0,008 kg

- ABS grey

- Weight

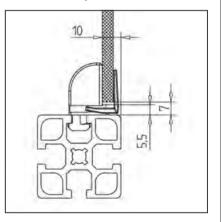
- Suitable for all profiles 30

- Subsequent fitting of panel elements from 2 to 6 mm thickness

APPLICATIONS

- Circulating air gap 7 mm

part no. 22.1240/0



ASSEMBLY

- Insert socket into profile groove

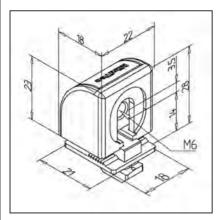
- Insert panel elements

- Press on clip

- Disassembly:

Lift clip with a screwdriver

SCREW BLOCK 23



TECHN. DATA / ITEMS SUPPLIED

- Also available with thread size M4 / M5 /

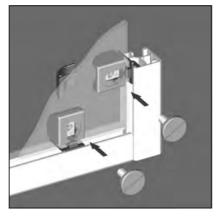
0,011 kg

- ABS grey

- Weight

M8

- Nut M6, steel, zinc-plated



APPLICATIONS

- Suitable for all profiles 30

- Subsequent fitting of panel elements from 2 to 6 mm thickness

- Circulating air gap 7 mm

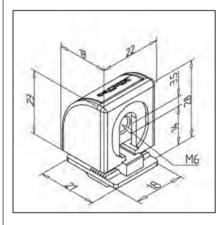
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part no. 22.1255/0

- Insert bored panel elements
- To screw panel elements
- Recommended flat head screw M6x12 part no. 21.2074/0 3 mm slice thickness or M6x16 part no. 21.1246/0 for greater strength

SCREW BLOCK 30



TECHN. DATA / ITEMS SUPPLIED

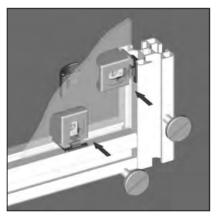
- ABS grey

- Nut M6, steel, zinc-plated

- Weight

- Also available with thread size M4 / M5 / M8

0,011 kg



APPLICATIONS

- Suitable for all profiles 30

- Subsequent fitting of panel elements from 2 to 6 mm thickness

- Circulating air gap 7 mm

part no. 22.1250/0

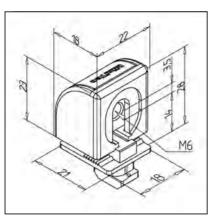
ASSEMBLY

- Insert socket into profile groove

- Insert bored panel elements
- To screw panel elements
- Recommended flat head screw M6x12 part no. 21.2074/0 3 mm slice thickness or M6x16 part no. 21.1246/0 for greater strength

part no. 22.1265/0

SCREW BLOCK 32



TECHN. DATA / ITEMS SUPPLIED

- Also available with thread size M4 / M5 /

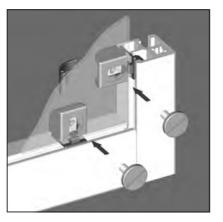
0,011 kg

- ABS grey

- Weight

M8

- Nut M6, steel, zinc-plated



APPLICATIONS

- Suitable for all profiles 45

- Subsequent fitting of panel elements from 2 to 6 mm thickness

- Circulating air gap 7 mm

- 65

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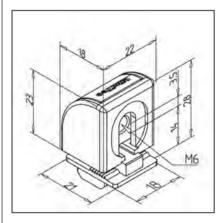
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 100</t
- To screw panel elements
- Recommended flat head screw M6x12 part no. 21.2074/0 3 mm slice thickness or M6x16 part no. 21.1246/0 for greater strength

SCREW BLOCK 45



TECHN. DATA / ITEMS SUPPLIED

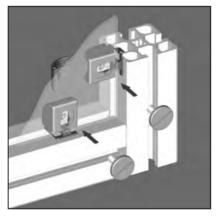
- ABS grey

- Nut M6, steel, zinc-plated

- Weight

- Also available with thread size M4 / M5 / M8

0,011 kg



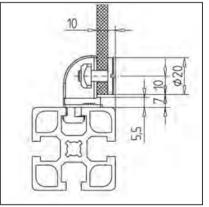
APPLICATIONS

- Suitable for all profiles 45

- Subsequent fitting of panel elements from 2 to 6 mm thickness

- Circulating air gap 7 mm

part no. 22.1260/0



ASSEMBLY

- Insert socket into profile groove

- Insert bored panel elements
- To screw panel elements
- Recommended flat head screw M6x12 part no. 21.2074/0 3 mm slice thickness or M6x16 part no. 21.1246/0 for greater strength

PAN HEAD SCREW 16

TECHN. DATA / ITEMS SUPPLIED

0,010 kg

- Steel, zinc plated

- Screw head: Ø 20

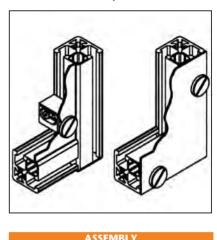
- M6 x 12, part no. 21.2074/0 M6 x 16, part no. 21.1246/0 M6 x 20, part no. 21.1246/1

- Weight



APPLICATION

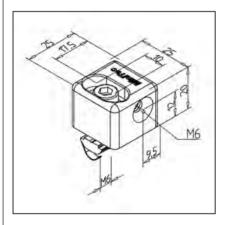
- Mounting of panel elements directly on profile groove or
- In connection with screw block 32 part no. 22.1112/0 or multiblock part no. 21.1355/0

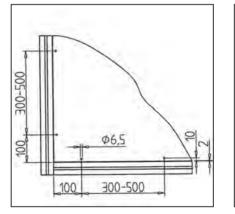


part no. diverse

- Predrill panel elements: Ø 6,5 mm
- Recommend grid dimension: ca. 150 mm
- Edge distance: see screw block 32 and multiblock

MULTIBLOCK 30 GD





APPLICATIONS

- Subsequent fitting of panel and add-on elements
- Flush installation of panels, thickness 6 to 7 mm

part no. 21.2220/0



ASSEMBLY

- Subsequent fastening of panel elements with screws M6 or pan head screw
- Calculation of the panel element dimension: clear opening - 4 mm (~2 mm space afloat)
- Fixing bores Ø 6,5 mm, 10 mm distance from edge of the panel element

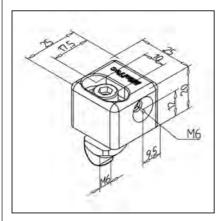
TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey
- Fastening kit

- Without pan head screw

0,0316 kg

MULTIBLOCK GD



TECHN. DATA / ITEMS SUPPLIED

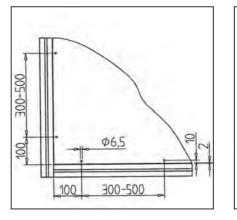
0,035 kg

- AL GD, powder coated, grey

- Without pan head screw

- Fastening kit

- Weight



APPLICATIONS

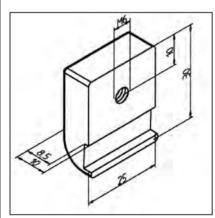
- Subsequent fitting of panel and add-on elements
- Flush installation of panels, thickness 5 to 15 mm

part no. 21.1355/0

ASSEMBLY

- For all profile grooves
- Subsequent fastening of panel elements with screws M6 or pan head screw
- Calculation of the panel element dimension: see page 173
- Fixing bores Ø 6,5 mm for screws M6, 8 mm from edge of the panel element

THREAD SOCKET GD



TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD

- Without pan head screw

- Weight 0,018 kg

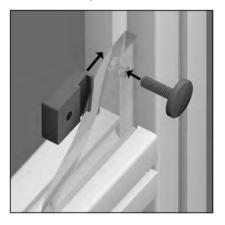


APPLICATIONS

- Fastening of panel elements in profile frames

- Table tops

part no. 21.1117/1



ASSEMBLY

- Insert the thread socket into profile groove

- Fasten the element with screws M6 or with pan head screw
- Edge distance: 10 mm
- Calculation of the panel element dimension: see page 173

MOUNTING BASE, PIVOTED

M5 B5 B5

TECHN. DATA / ITEMS SUPPLIED

0,016 kg

- Aluminium, natural anodized

- Set screw M05

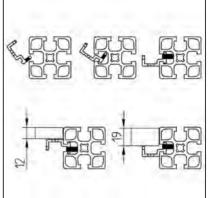
- Weight



APPLICATION

- For placing and fasten table tops and surface elements

part no. 21.0036/0

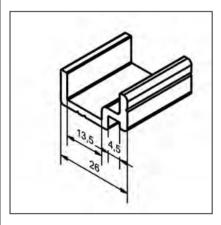


ASSEMBLY

- Insertion into the profile groove

- Clamp with set screw
- No processing required

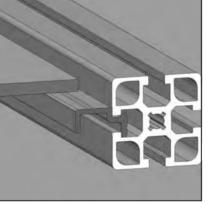
SUPPORT PROFILE



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural anodized

- Weight	0,339 kg/m
- Length	6 m



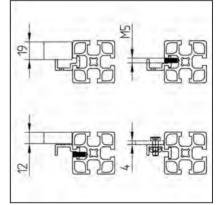
APPLICATIONS

- All types of safety equipment

- For installation of surface elements such as panels and plates up to a thickness of 19 mm

- Subsequent insertion

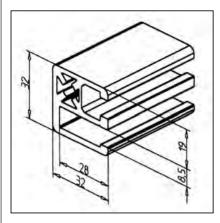
part no. 20.1121/0



ASSEMBLY

- Swivel support profile in groove, if necessary to be fastened with set screw
- Surface element: clear opening x+y: -2 mm

CLAMP PROFILE 32 X 32





TECHN. DATA / ITEMS SUPPLIED

- lx =	5,024 cm₄
- ly =	4,418 cm⁴
- wx =	3,041 cm ³
- wy =	2,398 cm ³
- Weight	1,211 kg/m
- Length	6 m
- Packing unit	48 m

APPLICATIONS

- All types of safety equipment

- For clamping surface elements such as corrugated mesh, panels or plates up to a thickness of 8 mm
- For large flexible panels, split panel into sections using a center bar of clamp profile 45x32

part no. 20.1070/0

ASSEMBLY

- MiniTec power-lock fastener; no bores required
- No cut-outs in surface elements required

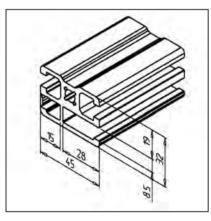
- Premount 3 sides of the frame

- Insert surface element and mount last profile strut

- Push in distance profile on the inside or knock in with a flat tool

- For panel elements < 4 mm mount additional insert seal

CLAMP PROFILE 45 X 32



TECHN. DATA / ITEMS SUPPLIED

6,465 cm⁴
9,521 cm⁴
3,999 cm ³
4,119 cm ³
1,615 kg/m
6 m
48 m

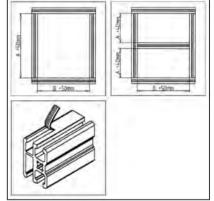


APPLICATIONS

- All types of safety equipment
 For clamping surface elements such as corrugated mesh, panels or plates up to a thickness of 8 mm
- With larger protection fields intermediate rods from mounting rail 45 x 32 are to be used, in order to ensure sufficient security against squeezing the two dimensional elements out

- Additional struts of clamp profile 45 x 32 must be used for larger guarding elements to ensure sufficient protection against extrusion of surface element; detach covering strips of profile 45 x 32

part no. 20.1053/0



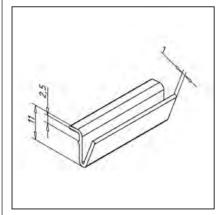
ASSEMBLY

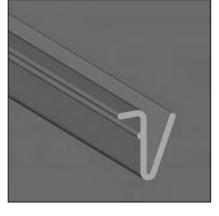
- MiniTec power-lock fastener

- No cut-outs in surface elements required

- Premount 3 sides of the frame
- Insert surface element and mount last profile strut
- Push in distance profile on the inside or knock in with a flat tool
- For panel elements < 4 mm mount additional insert seal

DISTANCE PROFILE 30





APPLICATIONS

 For clamping surface elements such as corrugated mesh, panels and plates for profile series 30

ASSEMBLY

- Mount frame and panel elements

- Press in with suitable tool in space between panel element and profile

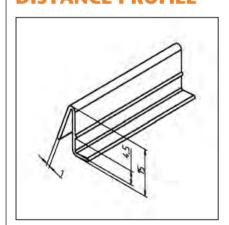
part no. 22.1158/0

TECHN. DATA / ITEMS SUPPLIED

- ABS, grey - Weight 0,02 kg/m - Length 2 m

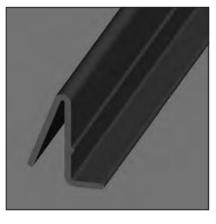
_____profile series 30

part no. 22.1039/0



TECHN. DATA / ITEMS SUPPLIED

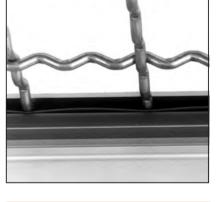
- ABS, grey	
- Weight	0,055 kg/m
- Length	2 m



APPLICATIONS

- Spacing element to use with clamp profile 45 x 32 **part no. 20.1053/0** and clamp profile 32 x 32 **part no. 20.1070/0** to fix corrugated mesh or panel elements

- Also for use with all other profiles to fix panel elements



ASSEMBLY

- Mount frame and panel elements

- Press in with suitable tool in space

between panel element and clamp profile

DISTANCE PROFILE

part no. 22.1076/0

SCREW SOCKET PROFILE

		3
52	The	1
1	Br.	
	000	

TECHN. DATA / ITEMS SUPPLIED

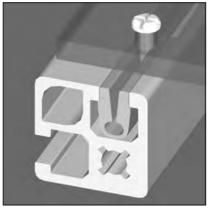
0,118 kg/m

2 m

- PVC, grey RAL 7012

- Weight

- Length



APPLICATIONS

- Easy fastening of panels or panel elements at any point

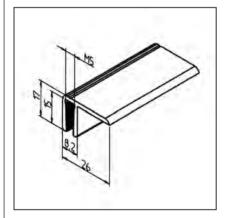
1	9 1111		ð	
	100	D		

ASSEMBLY

- Clip profile into groove

- Fasten element with commercial-type selftapping screws Ø 4-5 mm; Length min: 16 mm
- For material 1-6 mm, use self tapping screw 3,5 x 16 mm **part no. 21.1365/0**

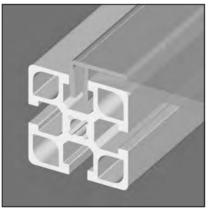
PANEL CLAMPING PROFILE



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, anodized E6/EV1

- Weight	0,260 kg/m
- Length	6 m

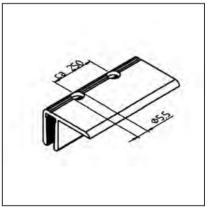


APPLICATIONS

- Fastening of panel elements

- Subsequent fitting of panels on facade side
- Subsequent fitting of panel elements of max. 10 mm thickness

part no. 20.1025/0



ASSEMBLY

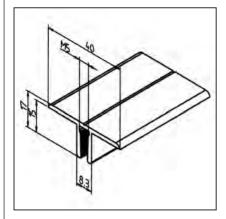
- Drill bores Ø 5,5 mm for set screw M5 in panel element dimension of 250 mm
- Press into profile groove and clamp with set screw M5 x 12
- Calculation of the panel element dimension: see page 173

DOUBLE PANEL CLAMPING PROFILE

0,375 kg/m

6 m

part no. 20.1018/0

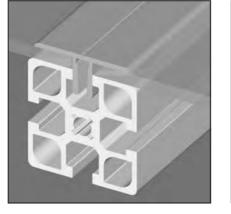


TECHN. DATA / ITEMS SUPPLIED

- Aluminium, anodized E6/EV1

- Weight

- Length



APPLICATIONS

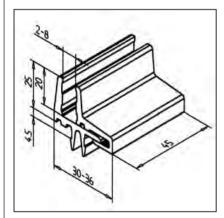
- Fastening of panel elements

- Support of panel elements of a thickness up to 10 mm

ASSEMBLY

- Drill bores Ø 5,5 mm for set screw M5 in panel element dimension of 250 mm
- Press into profile groove and clamp with set screw M5 x 12
- Also see panel clamping profile part no. 20.1025/0
- Calculation of the panel element dimension: see page 173

PANEL HOLDER



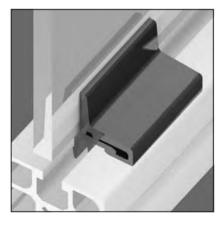
TECHN. DATA / ITEMS SUPPLIED

- Hard PVC, grey

- On request also deliverable in black part no. 22.1090/0

0,011 kg

- Weight



APPLICATIONS

- Fastening of panel elements up to 8 mm

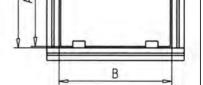
- If the panel elements are < 4 mm, a cellular rubber should be inserted

- Windows, door fillings

- Not suitable for corrugated mesh

(EEC--) V

part no. 22.1090/1



ASSEMBLY

- Snap socket half into profile groove

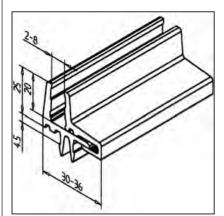
- Insert the panel element

4

- Press clamping half firmly on socket half
- Calculation of the panel element dimension: see page 171

part no. 22.1092/0

CLAMP PROFILE PVC



TECHN. DATA / ITEMS SUPPLIED

- On request also deliverable in black part no. 22.1080/0

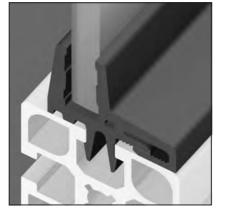
0,230 kg/m

2 m

- Hard PVC, grey

- Weight

- Length



APPLICATIO

- Fastening of panel elements up to 8 mm

- If the panel elements are < 4 mm, a cellular rubber should be inserted

- Windows, door fillins

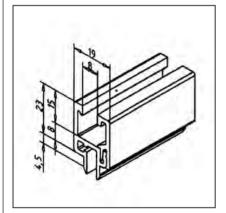
- No free space between profile and panel element

- Also suitable for corrugated mesh

ASSEMBLY

- Snap socket half into profile groove
- Insert the panel element
- Press clamping half firmly on socket half
- Calculation of the panel element dimension: see page 171

PANEL CLAMP PROFILE



TECHN. DATA / ITEMS SUPPLIED

- ABS, grey	
- On request also de	eliverable in black
- Weight	0,158 kg/m
- Lenath	2 m

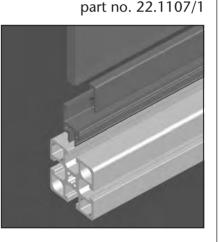


APPLICATIONS

- Useful for subsequent fitting of profiles into existing profile frames

- Fastening of panel elements up to 8 mm

- For panels up to 8 mm use additional insert seal
- Windows, panels
- No air gap



ASSEMBLY

- Snap socket half into profile groove

- Insert the panel element
- Press clamping half firmly on socket half
- Calculation of the panel element dimension: see page 171
- No mitre cut necessary

SURFACE ELEMENTS

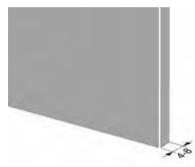
OPTIONS & MATERIAL

ACRYLIC



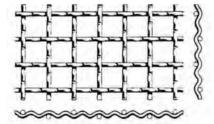
PART NO.	THICKNESS	COLOUR	WEIGHT	DIMENSION
21.1832/0	4 mm	tinted	4.76 kg/m ²	2030 x 3050 mm
21.1811/0	5 mm	tinted	5.95 kg/m ²	2030 x 3050 mm
21.1812/0	6 mm	tinted	7.14 kg/m ²	2030 x 3050 mm
21.1813/0	8 mm	tinted	9.52 kg/m ²	2030 x 3050 mm
21.1826/0	4 mm	clear	4.76 kg/m ²	2030 x 3050 mm
21.1836/0	5 mm	clear	5.95 kg/m ²	2030 x 3050 mm
21.1827/0	6 mm	clear	7.14 kg/m ²	2030 x 3050 mm
21.1828/0	8 mm	clear	9.52 kg/m ²	2030 x 3050 mm

POLYCARBONATE



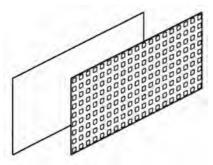
PART NO.	THICKNESS	COLOUR	WEIGHT	DIMENSION
21.1809/0	4 mm	tinted	4.76 kg/m ²	2030 x 3050 mm
21.1808/0	5 mm	tinted	5.95 kg/m ²	2030 x 3050 mm
21.1807/0	6 mm	tinted	7.20 kg/m ²	2030 x 3050 mm
21.1821/0	8 mm	tinted	9.78 kg/m ²	2030 x 3050 mm
21.1829/0	4 mm	clear	4.80 kg/m ²	2030 x 3050 mm
21.1833/0	5 mm	clear	5.95 kg/m ²	2030 x 3050 mm
21.1830/0	6 mm	clear	7.20 kg/m ²	2030 x 3050 mm
21.1831/0	8 mm	clear	9.78 kg/m ²	2030 x 3050 mm

CORRUGATED MESH



PART NO.	WIRE SIZE	MESH SIZE	WEIGHT	DIMENSION	MATERIAL
21.1803/0	4 mm	30 mm	6.2 kg/m ²	2000 x 3000 mm	St, galvanized
21.1805/0	4 mm	40 mm	4.7 kg/m ²	2000 x 3000 mm	St, galvanized
21.1818/2	4 mm	30 mm	2.14 kg/m ²	2000 x 2000 mm	ALMg3
21.1818/1	4 mm	40 mm	1.6 kg/m ²	2000 x 2000 mm	ALMg3

ON DEMAND



Aluminium sheets, steel plates, perforated plates, laminated wood panels

1 mm 0.3 mm 5.5 mm

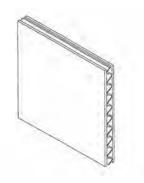
4.6 kg/m² 1500 x 2500 mm

Aluminum, paintable, printable, recyclable

SURFACE ELEMENTS

OPTIONS & MATERIAL

CORRUGATED ALUMINIUM PANEL



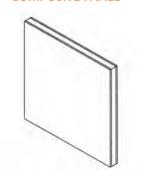
COMPOSITE PANEL

Material outside	Aluminium (anodized)
Material inside	Polyethylene
Total thickness	6 mm
Weight	7.3 kg/m ²
Panel Size	1500 x 3000 mm
Others	Aluminum, paintable, printable, recyclable

Front plate (anodized) Rear Plate (natural) Aluminium Welle

Total thickness Panel Size

Material



PVC-PLATE

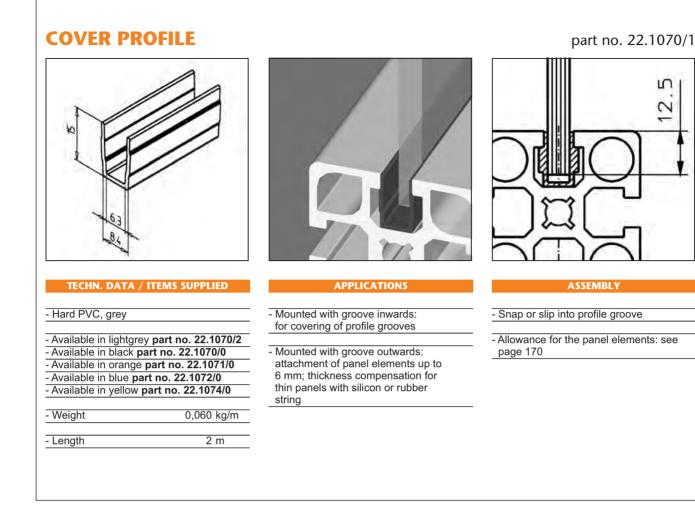
Thickness	20 mm
Colour	grey, 7011 RAL
Weight	28 kg/m ²
Panel Size	1000 x 2000 mm
On Demand	other sizes and thicknesses, antistatic table plates



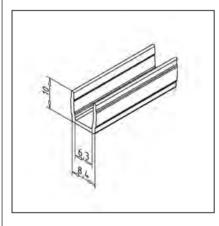
Thickness	10 - 40 mm
Colour*	black oder black-coloured
Dimension	1000 x 2000 mm
Density	0.93 kg/dm ³
Material	PE-Regenerate

* (In black-colored the color variance may vary depending on delivery)





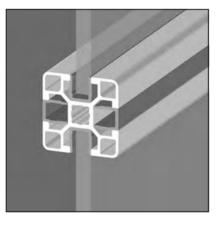
COVER PROFILE 30



TECHN. DATA / ITEMS SUPPLIED

- Hard PVC, grey
- Available in lightgrey **part no. 22.1161/2**- Weight 0,040 kg/m

- Weight 0,040 kg/m - Length 2 m

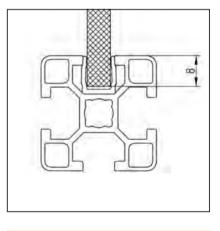


APPLICATIONS

- Mounted with the groove to the inside: For closing of the profile

- Mounted with the groove on the outside: To accommodate surface elements to 6mm thickness

part no. 22.1161/1

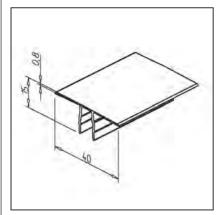


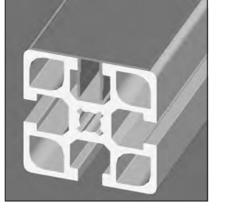
ASSEMBLY

- Press onto profile groove

188 MINITEC PROFILE SYSTEM

SIGNAL PROFILE





APPLICATIONS

- Marking of safety relevant construction units such as doors and risk zones

- Coloured organization of constructions or parts

ASSEMBLY

- Clip in profile groove

part no. 22.1097/2

TECHN. DATA / ITEMS SUPPLIED

- PVC, yellow-orange

- Deliverable in red part no. 22.1097/3

- Deliverable in signal-yellow part no. 22.1097/4

•

- Weight

- Length

nal-yellow 7 /4	
/4	
	0,090 kg/m
	0,000 kg/m
	2 m

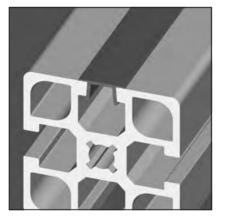
part no. 22.1020/1



TECHN. DATA / ITEMS SUPPLIED

- ABS, grey	
- Weight	0,023 kg/m
- Length	2 m

- Colour: yellow, part no. 22.1020/4

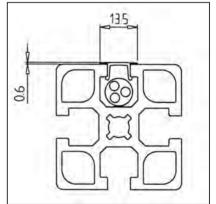


APPLICATIONS

 Flush, dust-proof covering of profile grooves

- Groove cross-section usable as installation conduit for wiring or piping

- Information plates

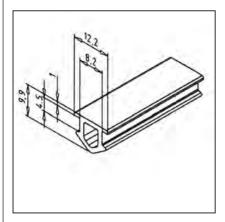


ASSEMBLY

- Press by hand onto profile groove

- Cut of with pliers

COVER PROFILE G



TECHN. DATA / ITEMS SUPPLIED

70°

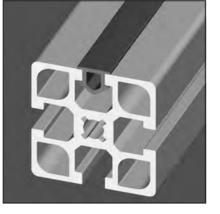
0,072 kg/m 25 m

- NBR, black

- Weight

- Length

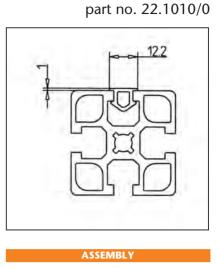
- Hardness (Shore A)



ΔΡΡΙΙζΑΤΙΟΝ

- Flush, dust-proof covering of profile grooves

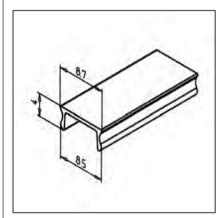
- Groove cross-section usable as installation conduit for wiring or piping



- Press by hand onto profile groove

- Cut of with pliers

COVER PROFILE L



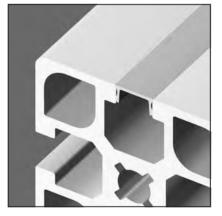
TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural

- Weight 0,030 kg/m 2 m

- Length

- Also deliverable in aluminium anodized part no. 20.1021/1



APPLICATIONS

- Flush, dust-proof covering of profile grooves

- Groove cross-section usable as installation conduit for wiring or piping

- Information plates

part no. 20.1021/0



ASSEMBLY

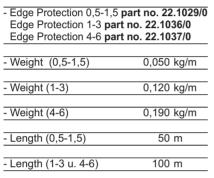
- Press by hand onto profile groove

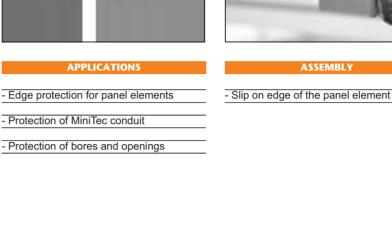
- Cut of with pliers

81

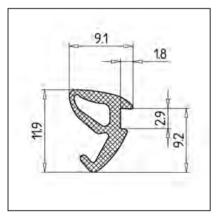
part no. diverse

EDGE PROTECTION TECHN. DATA / ITEMS SUPPLIED APPLICATIONS - PVC, black, strengthened with steel sheet - Edge protection for panel elements - Protection of MiniTec conduit





INSERT SEAL 30

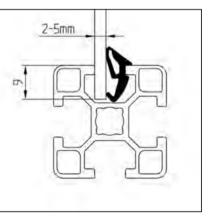


TECHN. DATA / ITEMS SUPPLIED

- EPDM-AGV, black	
- Weight	0,05 kg/m
- Length max.	100 m

APPLICATIONS

- Attachment and sealing of panel elements from 2-5 mm in the profile groove

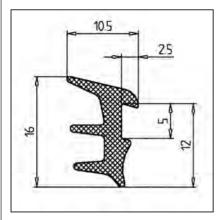


ASSEMBLY

- Insert panel element into profile groove and press insert seal subsequently into free space between panel element and profile groove with blunt tool made of wood or plastic

part no. 22.1174/0

INSERT SEAL 2



TECHN. DATA / ITEMS SUPPLIED

0,096 kg/m

100 m

- EPDM, black

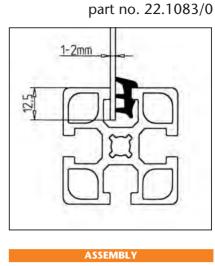
- Weight

- Length



APPLICATIONS

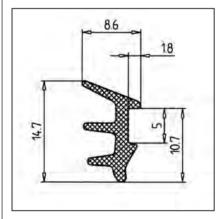
- Not suitable for acrylic plastic and polycarbonate
- Fastening and sealing of panel elements up to 2 mm thickness, directly in the profile groove



- Insert panel into profile groove

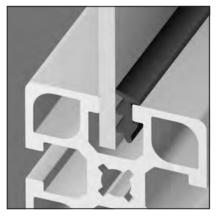
- Press insert seal subsequently into free space between panel element and profile groove with blunt tool made of wood or plastic
- Materials Ø 2 mm can be clamped by using insert seal 6 part no. 22.1086/1 on both sides

INSERT SEAL 4



TECHN. DATA / ITEMS SUPPLIED

- EPDM-AGV, black	
- Weight	0,070 kg/m
¥	
- Length	100 m



APPLICATIONS

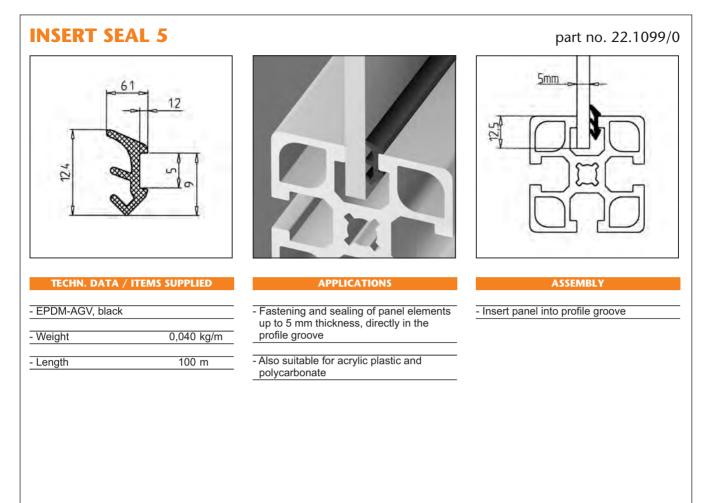
- Fastening and sealing of panel elements up to 2-4 mm in the profile groove
- Also suitable for acrylic plastic and polycarbonate

part no. 22.1081/0

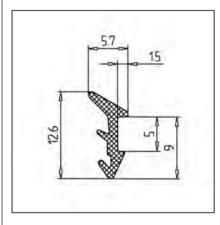
ASSEMBLY

 Insert panel element into profile groove and press insert seal subsequently into free space between panel element and profile groove with blunt tool made of wood or plastic

192 MINITEC PROFILE SYSTEM



INSERT SEAL 6



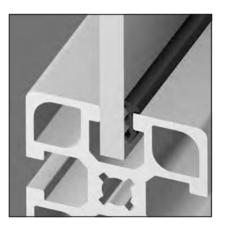
TECHN. DATA / ITEMS SUPPLIED

- EPDM-AGV, black

- Weight	0,020 kg/m
- Lenath	100 m

- Oil-resistant execution,

part no. 22.1086/3

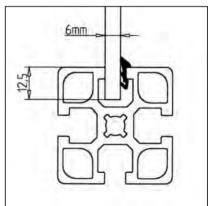


APPLICATIONS

- Fastening and sealing of panel elements up to 6 mm thickness, directly in the profile groove

- Also suitable for acrylic plastic and polycarbonate

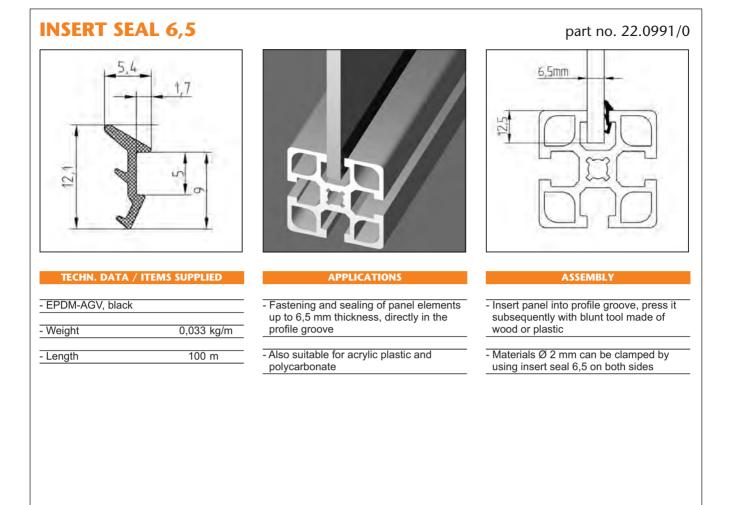
part no. 22.1086/1



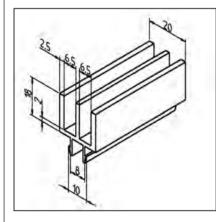
ASSEMBLY

- Insert panel into profile groove

- Materials Ø 2 mm can be clamped by using insert seal 6 on both sides



GUIDE PROFILE 2



TECHN. DATA / ITEMS SUPPLIED

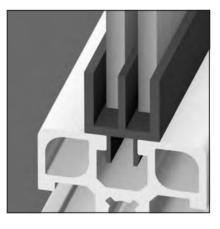
- Hard, PVC, grey

- On request also deliverable in black part no. 22.1073/0

- Weight 0,270 kg/m

2 m

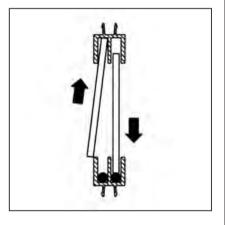
- Length



APPLICATIONS

 2-fold sliding doors made of panel elements of max. 6 mm

part no. 22.1073/1



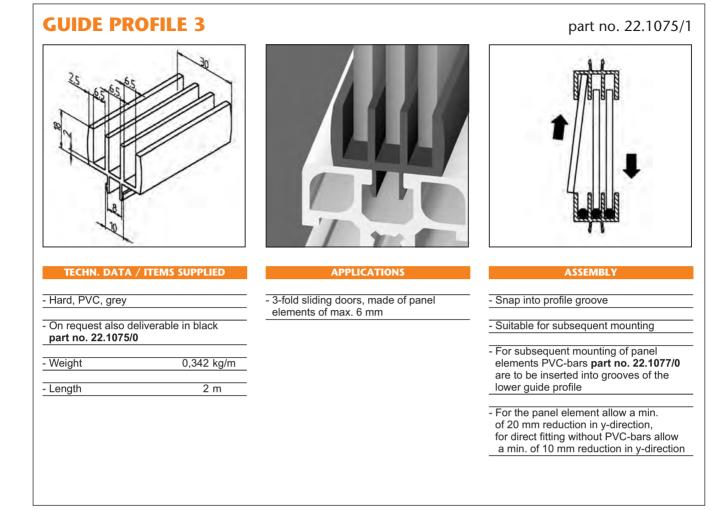
ASSEMBLY

- Snap into profile groove

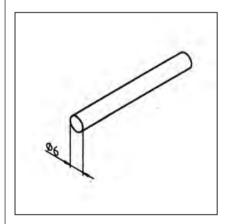
- Suitable for subsequent mounting

- For subsequent mounting of panel elements PVC-bars **part no. 22.1077/0** are to be inserted into grooves of the lower guide profile

- For the panel element allow a min. of 20 mm reduction in y-direction, for direct fitting without PVC-bars allow a min. of 10 mm reduction in y-direction



PVC-BAR



TECHN. DATA / ITEMS SUPPLIED

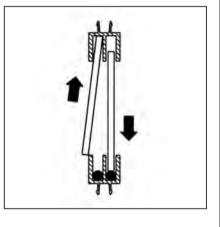
- PA, natural	
- Ø 6 mm	
- Weight	0,040 kg/m
- Length	3 m



APPLICATIONS

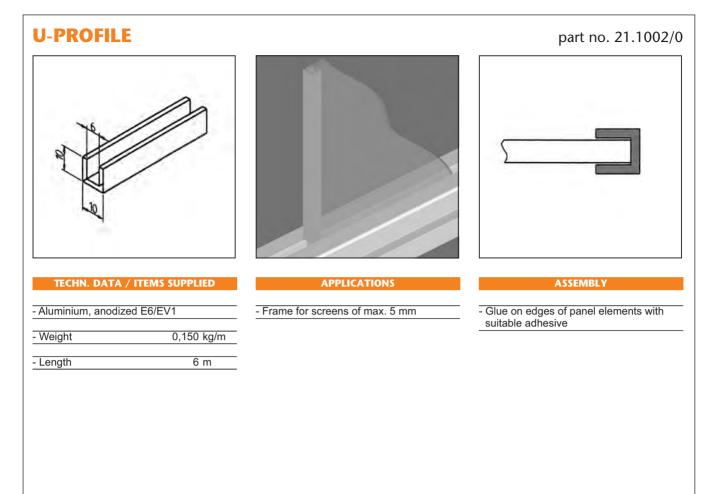
- Guiding of windows or doors in guide profiles

part no. 22.1077/0

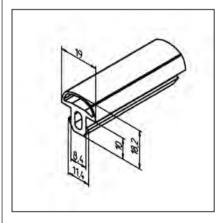


ASSEMBLY

- Insert in the lower grooves of guide profiles 2 and 3

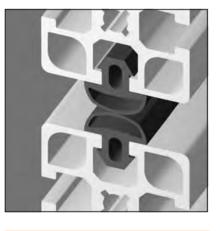


SEALING LEDGE



TECHN. DATA / ITEMS SUPPLIED

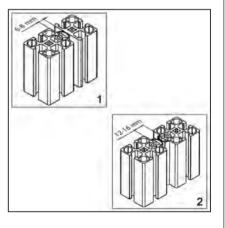
- NBR, black	
- Hardness (Shore A)	70°
- Weight	0,175 kg/m
- Length	50 m



APPLICATIONS

- Sealing of doors, lids and other constructions against dust, water, noise etc.

part no. 22.1078/0



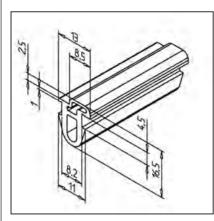
ASSEMBLY

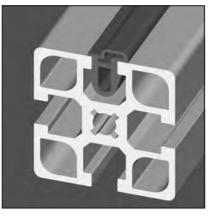
- Press into profile groove

- 1: Sealing of one side: gap width = 6 - 8 mm
- 2: Sealing of both sides: gap width = 12 - 16 mm

- Press into profile groove

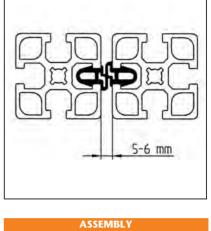
SEALING PROFILE





APPLICATION

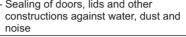
- Sealing of doors, lids and other constructions against water, dust and



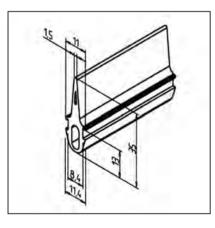
part no. 22.1011/0

TECHN. DATA / ITEMS SUPPLIED

- NBR, black	
- Hardness (Shore A)	70°
- Weight	0,122 kg/m
- Length	50 m



SEALING LIP PROFILE



TECHN. DATA / ITEMS SUPPLIED

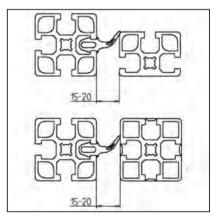
- NBR, black	
- Hardness (Shore A)	60°
- Weight	0,245 kg/m
- Length	75 m
- Lengin	75 11



APPLICATIONS

- Sealing of doors, lids and other constructions against dust, water, noise, light etc.

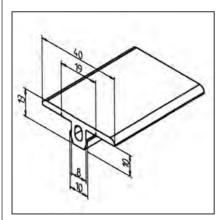
part no. 22.1038/0

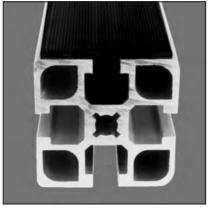


ASSEMBLY

- Press into profile groove

COVER PROFILE





œ	U

part no. 22.1098/0

TECHN. DATA / ITEMS SUPPLIED

- NBR, black	
- Hardness (Shore A)	70°
- Weight	0,230 kg/m
- Length	50 m

- Cover Profile EPDM part no. 22.1098/1

APPLICATIONS
 Edge Protection

- Buffer strip

- Ladder rungs

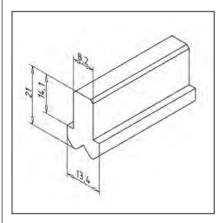
- Buffer for sliding doors

ASSEMBLY

- Press into profile groove

- The lower side of the profile has 2 tear-off notches for adjustment of width to the aluminium profile

SLIDE BAR 8 N 30

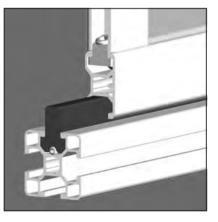


TECHN. DATA / ITEMS SUPPLIED

- Hard plastic, black

- Highly wear-resistant

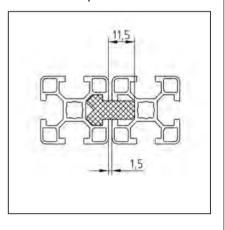
- Weight	0,178 kg/m
- Length	2 m



APPLICATIONS

- Guiding device for sliding doors and other sliding elements

part no. 22.1170/0

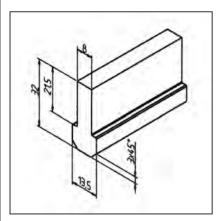


ASSEMBLY

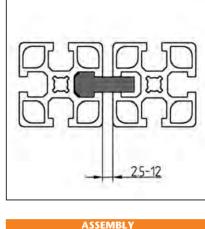
- Slide into profile groove

- The slide can be fixed with a set screw M4

SLIDE BAR 8 N







- Slide into profile groove

part no. 22.1085/0

TECHN. DATA / ITEMS SUPPLIED

2 m

- Hard plastic, black

- Highly wear-resistant

- Weight 0,300 kg/m

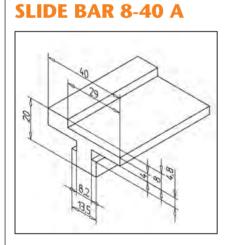
- Length

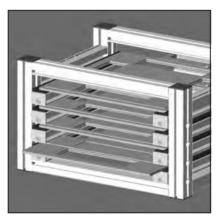
APPLICATIONS

- Guiding device for sliding doors and other sliding elements

- Lateral guide for conveyors

part no. 29.8012/0





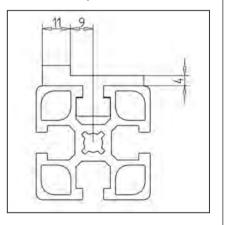
TECHN. DATA / ITEMS SUPPLIED

- Hard plastic, black	
- Highly wear-resistant	
- Weight	0,317 kg/m
- Length	2 m



- Sliding support - workpiece slide - Guide for lifting doors

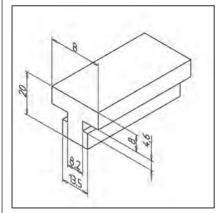
- Slides



ASSEMBLY

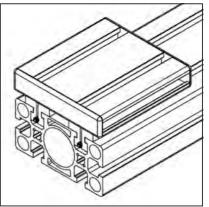
- Slide into profile groove

SLIDE BAR 8





part no. diverse



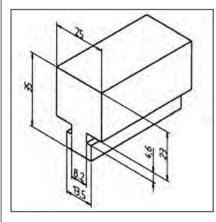
ASSEMBLY

- Slide into profile groove

TECHN. DATA / ITEMS SUPPLIED

- Hard plastic, black - Highly wear-resistant - B=25 part no. 22.1088/0 - Weight 0,311 kg/m - B=40 part no. 22.1088/1 - Weight 0,401 kg/m - B=45 part no. 22.1088/3 - Weight 0,463 kg/m - Length 2 m

APPLICATIONS
- Sliding support
- workpiece slide
- Guide for lifting doors
- Slides

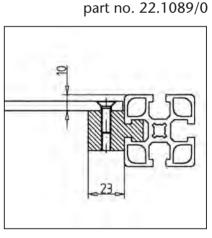


APPLICATIONS

- Sliding support

- workpiece slide

- Customer processing possible by additional machining allowance



ASSEMBLY

- Slide into profile groove

- Hard plastic, black

- Highly wear-resistant

- Weight 0,673 kg/m

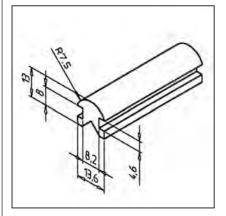
2 m

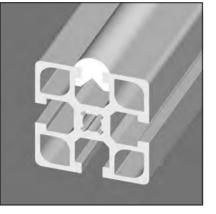
TECHN. DATA / ITEMS SUPPLIED

- Length



SLIDE BAR R





part no. 22.1104/0

TECHN. DATA / ITEMS SUPPLIED

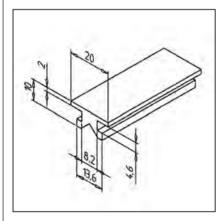
- PE, white - Highly wear-resistant - Weight 0,115 kg/m - Length 2 m

ASSEMBLY		
	ASSEMBLY	
	ASSEMBLI	

- Slide into profile groove

- Suitable for all profiles

SLIDE BAR F



DOXOC

TECHN. DATA / ITEMS SUPPLIED

- PE, white	
- highly wear resistant	
- Weight	0,098 kg
- Length	2 m

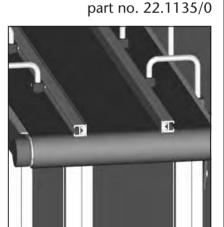


APPLICATIONS

-	lateral	guide	for	flat	components	

- slide for containers

- accumulator roller / rail

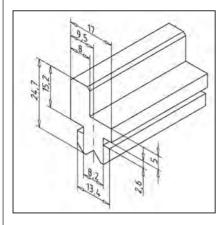


ASSEMBLY

- slide into profile groove

- secure slide bar at both ends with set screw or adjustable end caps

ANGULAR SLIDE BAR 30



TECHN. DATA / ITEMS SUPPLIED

0,248 kg/m

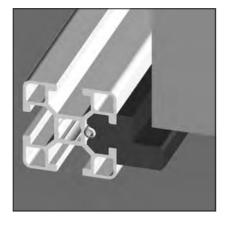
2 m

- PE, black

- Weight

- Length

- highly wear resistant



APPLICATIONS

- Guiding device for sliding doors and other sliding elements

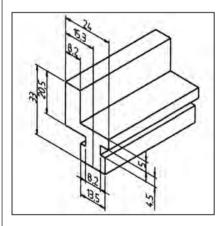
part no. 22.1171/0

ASSEMBLY

- slide into profile groove

- The slide can be fixed with a set screw M4

ANGULAR SLIDE BAR



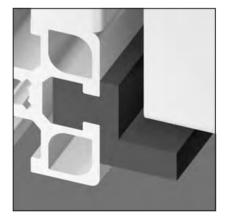
TECHN. DATA / ITEMS SUPPLIED

- Hard plastic, black
 Highly wear-resistant

- Weight 0,48 kg/m

2 m

- Length



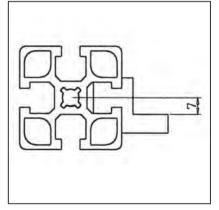
APPLICATIONS

- Conveying systems

- Belt conveyors

- Lateral guides



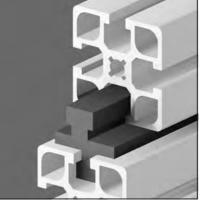


ASSEMBLY

- Slide into profile groove

DOUBLE SLIDE BAR

the second secon



APPLICATIONS

- Hard plastic, black

- Highly wear-resistant

- Weight 0,420 kg/m - Length 2 m

TECHN. DATA / ITEMS SUPPLIED

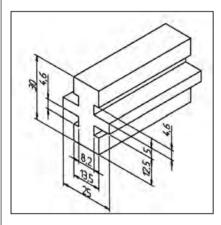
APPLICATIONS		
 Simple workpiece slides		

- Guide for drawers

part no. 22.1087/0

- Slide the double slide unit into profile groove of frame and sliding element
- Secure the sliding element at both ends with hex socket cap screws M8 x 16

PARALLEL SLIDE BAR



TECHN. DATA / ITEMS SUPPLIED

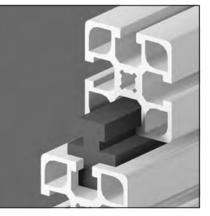
2 m

- Hard plastic, black

- Highly wear-resistant

- Weight 0,387 kg/m

- Length

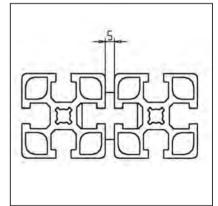


APPLICATIONS

- Parallel guide without difference in height

- Sliding elements that are flush on the outside

part no. 22.1041/0



ASSEMBLY

- Slide into profile groove

- If necessary, they can be locked on one side by means of straight pins M6 x 16

PREASSEMBLED ELEMENTS FOR LIFTING AND SLIDING DOORS

All elements are preassembled from our standard products ready for use. They are easily fixed to our profiles by using our fastening elements. Stock of parts is not necessary and planning and assembly time can be reduced significantly.









Slide-roll element

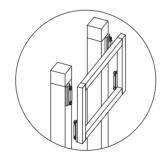
For one door four elements are necessary:

- One each to be fixed at end positions of pillar.
- One each to be fixed at door element.

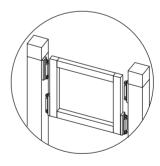
Length of sliding profile:

desired stroke + 180 mm min.

- 1. Disassemble slide-roll element.
- 2. Insert T-slot bar into profile groove and fix at desired position.
- 3. Reassemble the slide-roll element and lock with glue.



Assembly in front of pillars. Gap = 8 mm



Assembly between pillars. Gap = 8 mm

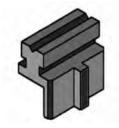
Guide for sliding-door

For a simultaneous guidance of two elements in one profile groove. Subsequent mounting of sliding-doors into existing constructions possible. For one door element 4 guides are necessary.

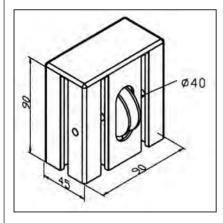
Allow for door elements:

Height: Width for 2 elements:

clearance of the opening minus 11 mm s: <u>clear width + 55</u> 2



CABLE PULLEY 45



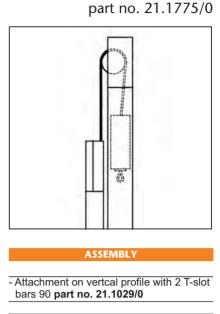
TECHN. DATA / ITEMS SUPPLIED

- Housing made of profile 45 x 90			
- Cable roller preassembled; built-in on broad side of the profile			
- End cap			
- Weight	0,350 kg		
- Load max.	12 kg		



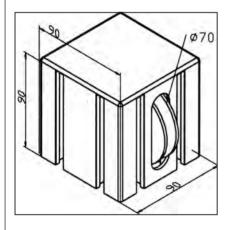
APPLICATIONS

- Cable reverse for counterweights in lifting doors made of profiles 45 x 90 L or 45 x 90 G
- For continous operation and heavy loads use chain pulley 45



- Corresponding cable **part no. 21.1777/0** is a wear part and must be regularly checked and lubricated if required

CABLE PULLEY 90



TECHN. DATA / ITEMS SUPPLIED

- Housing made of profile 90 x 90 L

- Built-in cable roller St, zinc plated

|--|

- Weight 0,680 kg

- Load max. 30 kg

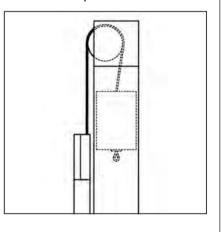


APPLICATIONS

- Cable reverse for counterweights in lifting doors made of profiles 90 x 90 L

 For continous operation and heavy loads use chain pulley 90

part no. 21.1776/0

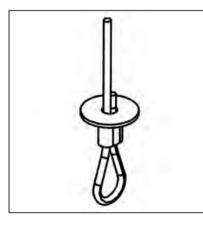


ASSEMBLY

- Attachment on vertcal profile with 4 T-slot bars 90 part no. 21.1029/0
- Corresponding cable **part no. 21.1777/0** is a wear part and must be regularly checked and lubricated if required

END BLOCK part no. 21.1780/0 Image: Constraint of the system o

CABLE



TECHN. DATA / ITEMS SUPPLIED

- Steel cable VA, 2,5 mm

- With clamping eye hook on one side, pressed

- Weight 0,072 kg/m

- Length

- On request also deliverable in other lengths

2,5 m



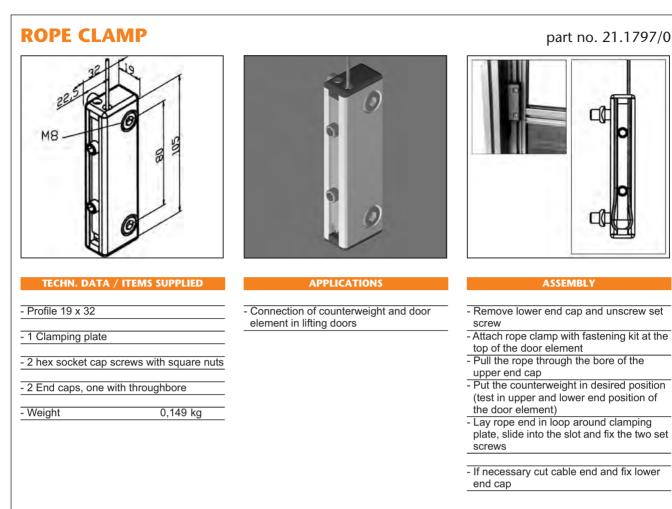
APPLICATIONS

Use in connection with counterweight
 45 or 90 and cable pulleys

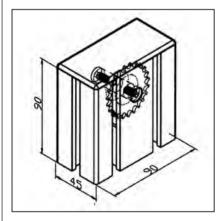


ASSEMBLY

- Lead the cable through the center bore and into the counterweight
- Fasten the cable with the cable clamping device **part no. 21.1797/0** on the lifting door
- Cable is a wear part and must be regularly checked and lubricated if required



SYNCHRONOUS PULLEY 45



TECHN. DATA / ITEMS SUPPLIED

- Housing made of profile 45 x 90

- Chain wheel, steel, preassembled for installation on broad side of the profile

- Weight 0,343 kg

34 kg

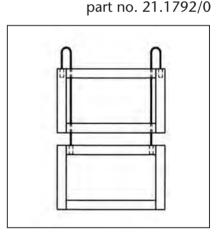
- Load max.



APPLICATIONS

- Simultaneous opening and closing of two lifting doors running in the operate direction; doors are of similar weight

- The chain is guided in the profile groove, thus no hand-protection is required



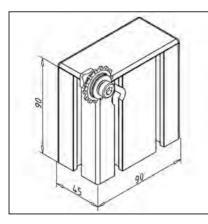
ASSEMBLY

- Attachment on vertical profile with 2 T-slot bars 90 part no. 21.1029/0

- Insert chain **part no. 21.1713/0** in pulley; fasten it with the door chain clamping device **part no. 21.1712/0** on both doors and insert it in the vertical profiles

rt no. 21.1713/0

CHAIN PULLEY 32



TECHN. DATA / ITEMS SUPPLIED

- Housing made of profile 45 x 90

- Chain wheel, steel, zinc plated, preassembled, for small profile side

- End cap

- Weight 0,388 kg

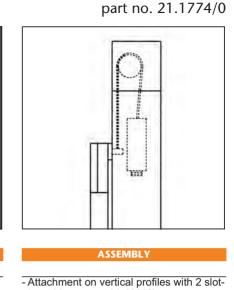
50 kg

- Load max.



APPLICATIONS

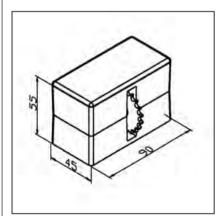
- Chain reverse for counterweights in lifting doors; for inner balancing weight in profiles 45 x 90 F or 45 x 90 G
- The cable is guided in the profile groove, thus no hand-protection is required



- Applications of chain **part no.. 21.1713/0** with door chain clamping device **part no. 21.1712/0** and weight chain clamping device **part no. 21.1711/0**

bars 90 part no. 21.1029/0

CHAIN PULLEY 45 A



TECHN. DATA / ITEMS SUPPLIED

0,347 kg

50 kg

- Housing aluminium GD, powder coated, grey

- Chain wheel, steel, zinc plated, preassembled

- End cap

- Fastening kit

- Weight

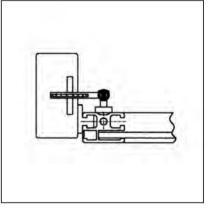
- Load max.



APPLICATIONS

- Chain reverse of counterweights for lifting doors for inner counterweight in profile 45 x 90 L or 45 X 90 G

- Chain runs on the outer profile side and in the middle of te broad side; if required covered with hand-protection part no. 21.1780/0



part no. 21.1838/0

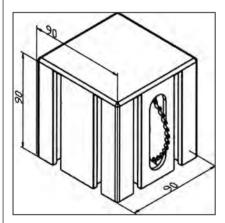
ASSEMBLY

- Attachment with fastening kit from supply schedule; thread M8 in vertical profile required

- Use of chain **part no.**. **21.1713/0** with door chain clamping device **part no. 21.1712/0** and weight chain clamping device **part no. 21.1711/0**

CHAIN PULLEY 45 I part no. 21.1840/0 TECHN. DATA / ITEMS SUPPLIED ASSEMBI - Housing aluminium GD, powder coated, - Chain reverse of counterweights for lifting - Attachment with fastening kit; thread M8 grey doors for inner counterweight in profile 45 in vertical profile required x 90 L or 45 X 90 G - Chain wheel, steel, zinc plated, - Use of chain part no.. 21.1713/0 with - Chain runs on the broad side of the profile preassembled door chain clamping device part no. 21.1712/0 and weight chain clamping in the right or left profile groove - End cap (adjustable chain wheel), no handdevice part no. 21.1711/0 protection required - Fastening kit - Weight 0,347 kg - Load max 50 kg

CHAIN PULLEY 90



TECHN. DATA / ITEMS SUPPLIED

- Housing aluminium GD, powder coated, grey

0,681 kg

70 kg

- Chain wheel, steel, zinc plated, preassembled

- End cap

- Weight

- Load max.



APPLICATIONS

- Chain reverse for counterweights for lifting doors, for inner balancing weight in profile 90 x 90 L

- The chain is guided on the outside and in the middle of the profile surface; cover with hand-protection **part no. 21.1780/0**

part no. 21.1839/0

ASSEMBLY

- Attachment on vertical profiles with 4 slot-bars part no. 21.1029/0

- Use of chain **part no.** 21.1713/0 with door chain clamping device **part no.** 21.1712/0 and weight chain clamping device **part no.** 21.1711/0

CHAIN 04

- Roller chain, steel

- Breaking load min.

- Please indicate desired length

- Size 4

- Weight

6000000

TECHN. DATA / ITEMS SUPPLIED



APPLICATIONS

- Use in connection with counterweight 45 or 90 and chain pulleys
- Use in connection with door chain clamping device **part no. 21.1712/0** for fastening the chain on the door
- Use in connection with weight chain clamping device **part no. 21.1711/0** for fastening the chain on the side of the counterweight

ASEMBLY

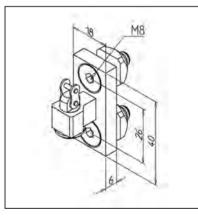
part no. 21.1713/0

- Lead the chain through the counterweight and through the fastening kit for chain (counterweight side) **part no. 21.1711/0** mount chain lock
- For mounting on door lead chain through fastening kit for chain (door side) part no. 21.1712/0

DOOR CHAIN CLAMPING DEVICE

0,120 kg/m

3000 N



TECHN. DATA / ITEMS SUPPLIED

0,060 kg

- Steel zinc plated

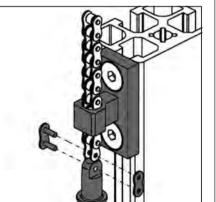
- Fastening kit

- Weight



APPLICATIONS

- Use in connection with counterweight
 45 or 90 and pulleys
- Use in connection with chain part no. 21.1713/0 for fastening on door side



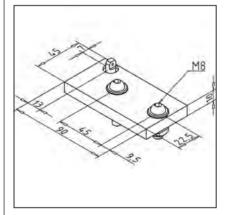
part no. 21.1712/0

ASSEMBLY

- Lead the chain through the counterweight and through the fastening kit for chain (counterweight side)
- part no. 21.1711/0 mount chain lock
- For mounting on door lead chain through fastening kit for chain (door side) **part no. 21.1712/0** and mount bolt with link for chain

DOOR CHAIN CLAMPING DEVICE KV-32 part no. 21.1980/0 M8 TECHN. DATA / ITEMS SUPPLIED APPLICATIONS - Steel zinc plated - Use in connection with chain pulley 90 - Mount plate to lifting doors with the and chain 04 supplied lock chain roller 04 - Fastening kit and link for chain - Mount lifting doors from profile 45 x 32 with Slide-roll element in front of pillars - Use 2 door chain clamping every lifting - Weight 0,247 kg doors

DOOR CHAIN CLAMPING DEVICE KV-45



TECHN. DATA / ITEMS SUPPLIED

- Steel zinc plated

- Fastening kit and chain lock

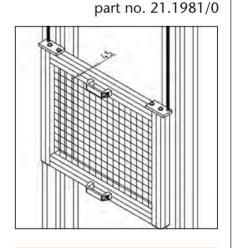
- Weight 0,345 kg



APPLICATIONS

- Use in connection with chain pulley 90 and chain 04

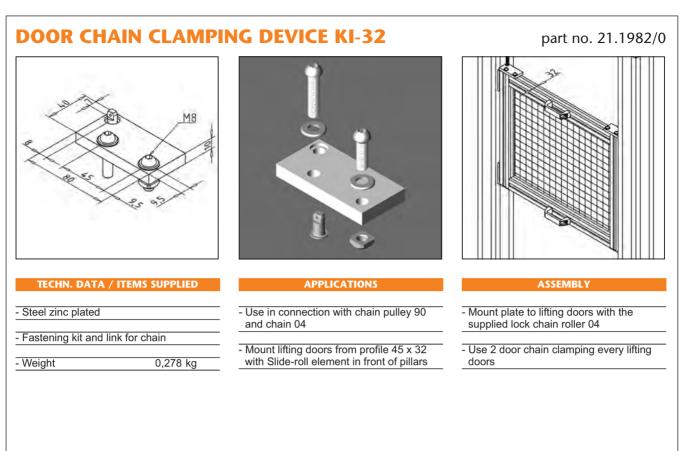
- Mount lifting doors from profile 45 x 45 with Slide-roll element in front of pillars



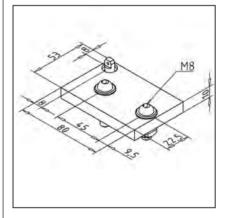
ASSEMBLY

- Mount plate to lifting doors with the supplied lock chain roller 04

- Use 2 door chain clamping every lifting doors



DOOR CHAIN CLAMPING DEVICE KI-45

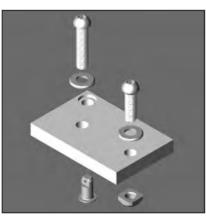


TECHN. DATA / ITEMS SUPPLIED

- Steel zinc plated

- Fastening kit and link for chain

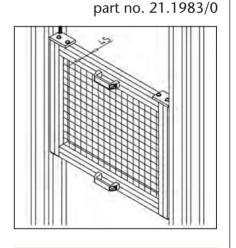
- Weight 0,360 kg



APPLICATIONS

- Use in connection with chain pulley 90 and chain 04

- Mount lifting doors from profile 45 x 32 with Slide-roll element in front of pillars

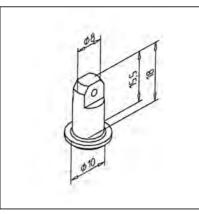


ASSEMBLY

- Mount plate to lifting doors with the supplied lock chain roller 04
- Use 2 door chain clamping every lifting doors

FASTENING KIT FOR CHAIN (COUNTERWEIGHT)

part no. 21.1711/0



TECHN. DATA / ITEMS SUPPLIED

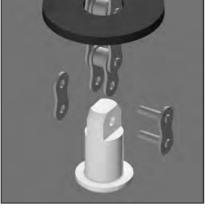
0,015 kg

- Steel, zinc plated

- Rubber-ring

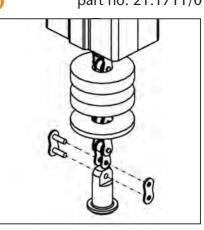
- Link for chain

- Weight



APPLICATIONS

- Use in connection with counterweight 45 or 90 and pulleys
- Use in connection with chain 04 part no. 21.1713/0 to fasten chain to counterweight



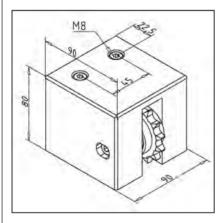
ASSEMBLY

- Lead the chain through the counterweight and through the fastening kit for chain (counterweight side)

part no. 21.1711/0 mount chain lock

- For mounting on door lead chain through fastening kit for chain (door side) part no. 21.1712/0

CHAIN REVERSE 90 S



TECHN. DATA / ITEMS SUPPLIED

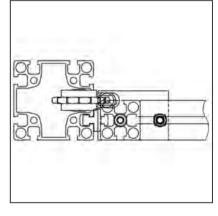
- Aluminium anodized	
- Fastening kit	
- Weight	1,748 kg
- Load max.	150 kg



APPLICATIONS

- Chain reverse for counterweights for lifting doors, for inner balancing weight in profile 90 x 90 L

part no. 21.0920/0



ASSEMBLY

- Use fastening kit

- Use of chain 08 part no. 29-0307/0 with weight chain clamping device part no. 21.0925/0

CHAIN 08

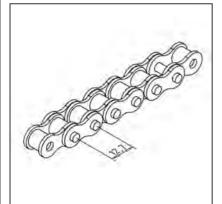
- Chain, steel

- Breaking load min.

- Please indicate desired length

- Size 8

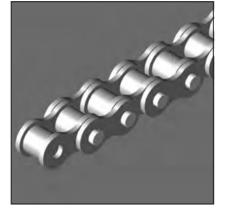
- Weight



TECHN. DATA / ITEMS SUPPLIED

0,700 kg/m

18.000 N



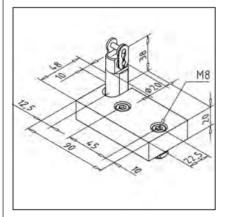
APPLICATIONS

- Use in connection with counterweight 45 or 90 and chain reverse 90 S
- Fastening kit for chain (counterweight) S part no. 21.0925/0

ASSEMBLY

- Mounting by Fastening kit for chain (counterweight) S part no. 21.0925/0 of M10 threaded rod part no. 21.1667/0 for receiving the countertweight

DOOR CHAIN CLAMPING DEVICE 90 S FRONT

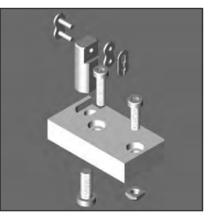


TECHN. DATA / ITEMS SUPPLIED

- Aluminium anodized

- Fastening kit and link for chain

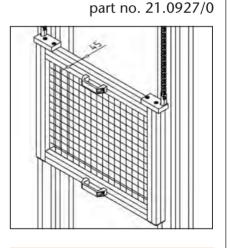
- Weight 0,381 kg



APPLICATIONS

- Use in conjunction with chain reverse 90 S and chain 08

- Mount lifting doors from profile 45 x 45 with Slide-roll element in front of pillars



ASSEMBLY

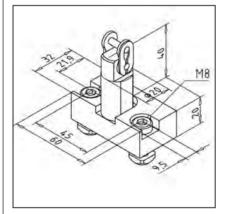
- Mount plate to lifting doors with the supplied lock chain roller 08

- Use 2 door chain clamping every lifting doors

part no. 29.0307/0

DOOR CHAIN CLAMPING DEVICE 90 S SIDEWAY part no. 21.0928/0 M8 TECHN. DATA / ITEMS SUPPLIED APPLICATIONS ASSEMBLY - Aluminium anodized - Use in conjunction with chain reverse 90 - Mount plate to lifting doors with the S and chain 08 supplied lock chain roller 08 - Fastening kit and link for chain - Mount lifting doors from profile 45 x 45 with Slide-roll element in front of pillars - Use 2 door chain clamping every lifting - Weight doors 0,368 kg

DOOR CHAIN CLAMPING DEVICE 90 S SLIDE



TECHN. DATA / ITEMS SUPPLIED

- Aluminium anodized

- Fastening kit and link for chain

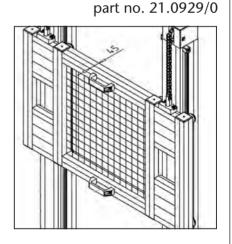
- Weight 0,375 kg



APPLICATIONS

- Use in conjunction with chain reverse 90 S and chain 08

- For mounting on slide LW 45 or LW 90

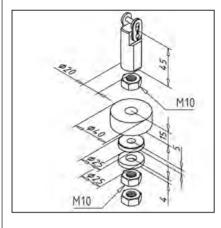


ASSEMBLY

- Mount plate to slide with the supplied lock chain roller 08

DOOR CHAIN CLAMPING DEVICE (COUNTERWEIGHT) S

part no. 21.0925/0



TECHN. DATA / ITEMS SUPPLIED

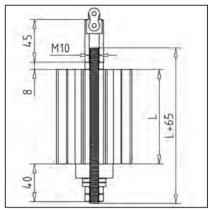
- Steel, zinc plated
- Rubber-ring
- Link for chain
- Weight 0,145 kg (ohne Gewindestange)

- Please order threaded rod M 10 part no. 21.1667/0 in addition to desired length



APPLICATIONS

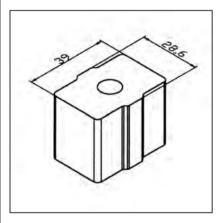
- Use in connection with counterweight 45 or 90 and pulleys
- Use in connection with chain part no. 21.1713/0 to fasten chain to counterweight



ASSEMBLY

- Lead the chain through the counterweight and through the fastening kit for chain (counterweight side) part no. 21.1711/0 mount chain lock
- For mounting on door lead chain through fastening kit for chain (door side) part no. 21.1712/0
- Connect threaded rod with enclosed chain lock chain

COUNTERWEIGHT 45



TECHN. DATA / ITEMS SUPPLIED

- Pb cast, special hard

- For profiles 45 x 90 L or 45 x 90 G

- Weight 10 kg/m

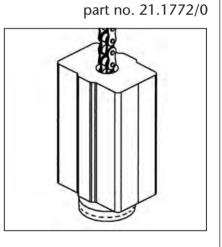




APPLICATIONS

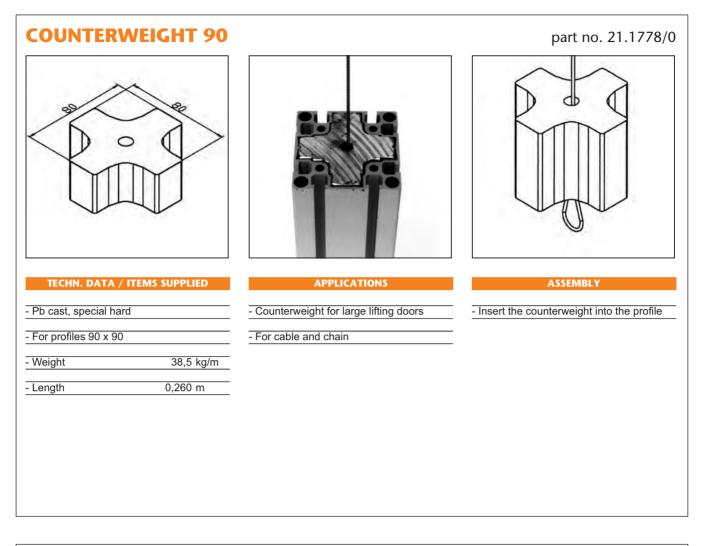
- Counterweight for large lifting doors

- For cable and chain

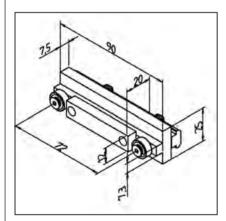


ASSEMBLY

- Insert the counterweight into the profile



SLIDE-ROLL ELEMENT

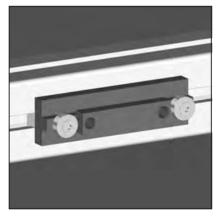


TECHN. DATA / ITEMS SUPPLIED

- Hard plastic black, highly wear-resistant
- 1 T-slot bar, steel, zinc plated

- 2 ball-bearings, premounted

- Weight 0,093 kg
- Load max. 200 N



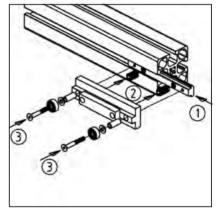
APPLICATIONS

- Guide for lifting doors in the groove of the vertical profile

- Light linear slides

- Workpiece-slides, drawers

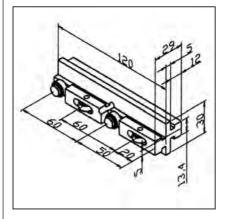
part no. 21.1796/0



ASSEMBLY

- 1: Disassemble the bearings from the element
- 2: Insert t-slot bar into profile groove and lock at desired position
- 3: Reassemble the slide and the bearings with t-slot bar, secure with suitable glue

GLIDE-ROLL ELEMENT



TECHN. DATA / ITEMS SUPPLIED

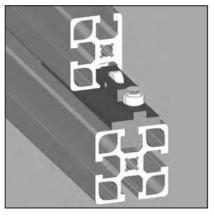
- Hard plastic black, highly wear-resistant

- 1 clamping screw, steel, zinc plated

- 4 built-in ball-bearings

- Weight

- F max



APPLICATIONS

- Guide for sliding doors, lifting-doors, workpiece-slides, light linear guides
- The element provides 5 mm eccentricity for the construction of sliding doors with 2 casements or guides with 5 mm ground clearance

part no. 21.1799/0

ASSEMBL

- 1: Insert the element with screw side into profile groove of movable construction part

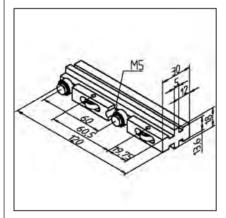
- 2: Tighten the screw

- 3: Slide the completely mounted movable part into the grooves of the guiding profiles. Secure the movable part against falling out with screws at both ends

GLIDE-ROLL ELEMENT PARALLEL

0,060 kg

300 N



TECHN. DATA / ITEMS SUPPLIED

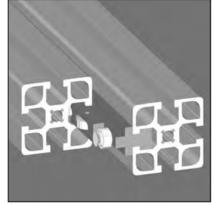
300 N

 Hard plastic black, extremely wear resistant

- 1 clamping screw, steel, zinc plated
- 4 built-in ball-bearings

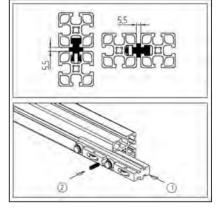
- Weight 0,060 kg

- F max



APPLICATIONS

- Guide for sliding doors, lifting-doors, workpiece-slides, light linear guides
- Both slots are parallel to each other for construction of flush sliding doors



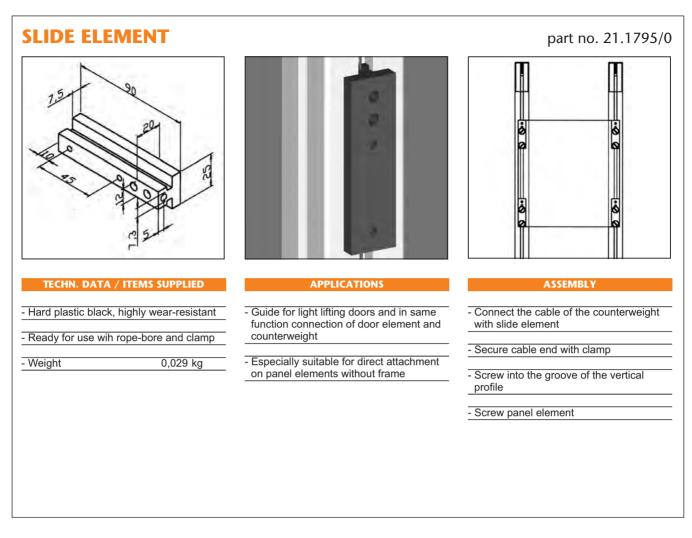
part no. 21.1714/0

ASSEMBLY

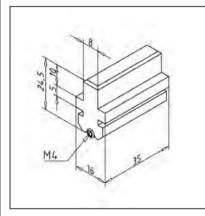
- 1: Insert the element with screw side into profile groove of movable construction part

- 2: Tighten the screw

- 3: Slide the completely mounted movable part into the grooves of the guiding profiles. Secure the movable part against falling out with screws at both ends



GUIDE FOR SLIDING DOOR 30



TECHN. DATA / ITEMS SUPPLIED

0,01 kg

- PE-UHMW, black

- 1 fixing screw

- For 1 door element 4 guides are necessary

- Weight



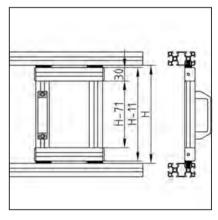
APPLICATIONS

- Sliding doors

- Sliding elements

- Workpiece-slides, drawers

- Subsequent mounting of sliding doors into existing constructions possible



part no. 22.1159/0

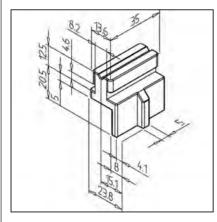
ASSEMBLY

- Insert guidings laterally, mount cover caps

- Insert guidings laterally, mount cover caps

MINITEC PROFILE SYSTEM 219

GUIDE FOR SLIDING DOOR





TECHN. DATA / ITEMS SUPPLIED

- Plastic PA 6.6, black

- 1 screw

 For 1 door element 4 guides are necessary

- Weight

0.	.0	29

kg

APPLICATIONS

- Sliding doors

Sliding elements

- Workpiece-slides, drawers

- For a simultaneous guidance of 2 elements in 1 profile groove
- Subsequent mounting of sliding doors into existing constructions possible

1	2
	. <u></u>
3	4

part no. 22.1079/0

ASSEMBLY

- 1: Fasten the upper guide to the frame of the door element
- 2: Insert the lower guide into the frame construction

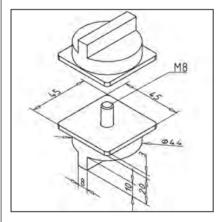
- 3: Insert the door element

 - 4: Slide it into the lower guide and secure at desired position

- Mount second door element

- Allowance: see page

FOLDING DOOR SUPPORT



TECHN. DATA / ITEMS SUPPLIED

0,084 kg

- 2 slide elements; plastic, black

- Fastening kit and end caps 45 x 45 AL

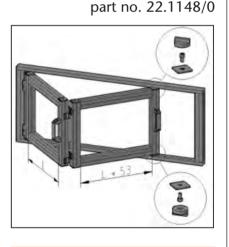
- Weight



APPLICATIONS

- Slide element for guiding of folding doors

- Guiding in profile grooves



ASSEMBLY

 Mounting of end caps with supplied fastening kit on front of door profile

- Insert slide elements into profile grooves

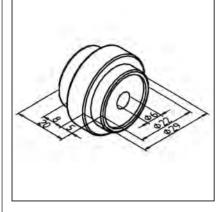
- Insert mounted screws into drill hole of slide element

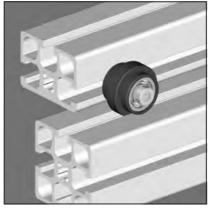
- Use always in pairs

- Measures valid for profiles 45x45 for door mounted with hinge part no. 21.1378/0

ROLLER ELEMENT

part no. 21.1782/0





APPLICATIONS

- Guide for sliding doors, lifting doors and drawers



ASSEMBLY

 Attachment with hex socket cap screws M6 x 35 and square nut M6 on profile grooves or directly on the panel element

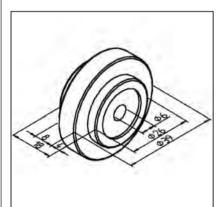
TECHN. DATA / ITEMS SUPPLIED

- With 2 ball-bearings 626 ZZ - Weight 0,033 kg

- ABS, grey

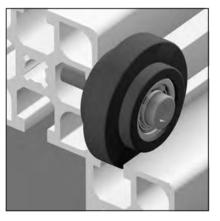
- Load max. 200 N

ROLLER ELEMENTS S



TECHN. DATA / ITEMS SUPPLIED

- PA, grey	
- With 2 ball-bearings 62	26 ZZ
- Weight	0.044 kg
	0,044 Kg
- Load max. (roller)	200 N



APPLICATIONS

- Guide for sliding doors, lifting doors and drawers

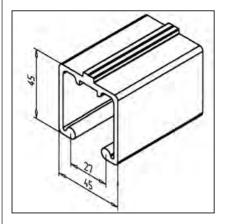
part no. 21.1781/0



ASSEMBLY

 Attachment with hex socket cap screws M6 x 35 and square nut M6 on profile grooves or directly on the panel element

SLIDING DOOR PROFILE



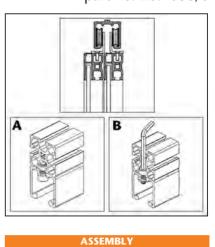


TECHN. DATA / ITEMS SUPPLIED

- Ix =	15,347 cm⁴
- ly =	15,597 cm⁴
- wx =	5,912 cm ³
- wy =	6,932 cm ³
- Weight	1,474 kg/m
- Length	6 m
- Packing unit	48 m

APPLICATIONS	A
wing sliding doors	- Drill Ø 8,5 mm h bore pitch: 250 - the load
	- A) Position M8 F supporting profil door profile with screw
	- B) Drill holes or

part no. 20.1038/0

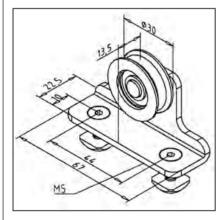


- Drill Ø 8,5 mm holes in centering groove; bore pitch: 250 - 400 mm depending on the load
- A) Position M8 F square nuts in the supporting profile and fasten the sliding door profile with M8 x 25 hex socket cap screw
- B) Drill holes or step holes in the supporting profile and insert the square nuts in the sliding profile; the nuts are secured against torsion

ROLLER ELEMENT FOR SLIDING DOOR

- Two

- One



TECHN. DATA / ITEMS SUPPLIED

0,080 kg

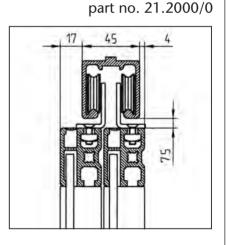
- Plastic roller with ball- bearing
- Zinc plated steel support
- Fastening kit
- Weight

- Load max./roller 600 N



APPLICATIONS

- Easy-running, multi-wing sliding doors in guard units, exhibition stands, testing units, etc.

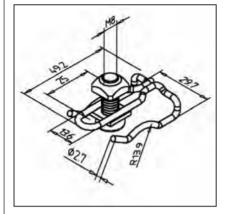


ASSEMBLY

- Fasten the roller elements on profile groove; use fastening kit
- Insert the doors in the sliding rail profile and gently swing out the doors at their bottom end
- Secure the sliding door at the bottom with locking pins, sliding rails 8N part no. 22.1085/0 or U-Profile part no. 21.2002/0 against swinging

STOP FOR SLIDING DOOR K

part no. 21.2019/0

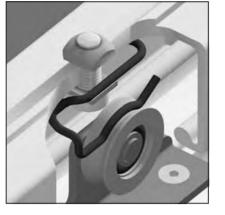


TECHN. DATA / ITEMS SUPPLIED

- Spring steel wire

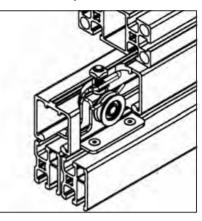
- Fastening kit

- Weight



APPLICATIONS

- Stop for sliding doors in their end positions (open / closed)



ASSEMBLY

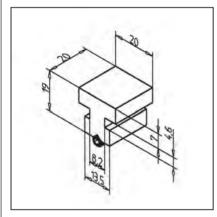
- Mark end position of the wheel

- Bore drill Ø 8,5 m in sliding door profile

- Use fastening kit

ANTI LIFT FOR SLIDING DOOR

0,010 kg



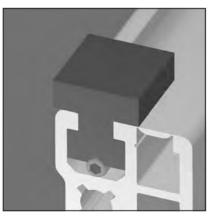
TECHN. DATA / ITEMS SUPPLIED

0,010 kg

- Hard plastic, black

- Fastening kit

- Weight

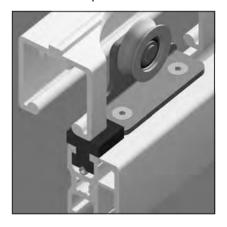


APPLICATIONS

- Securing of sliding doors against lift off

- Reduction of pendulum motion

part no. 21.2003/0



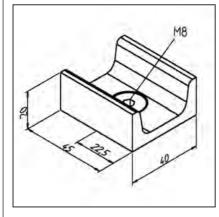
ASSEMBLY

- Slip lift for sliding door in upper profile groove of the door-element

 Secure the position by the included set screw horizontally in profile groove underneath antilift

- Mount end cap

U-BAR FOR SLIDING DOOR

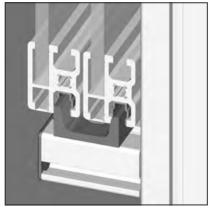


TECHN. DATA / ITEMS SUPPLIED

- Steel, zinc plated

- Fastening kit

- Weight



APPLICATIONS

 Securing of sliding doors against lateral swinging

part no. 21.2002/0

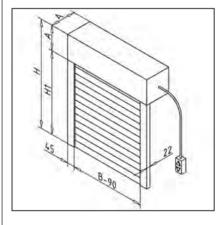
ASSEMBLY

- Hang up the doors

- Mount U-Bar on profile (-60 mm), slide in position and fix
- For smooth movement provide profile grooves with cover profile

ROLLING DOOR WITH DRIVE

0,012 kg





TECHN. DATA / ITEMS SUPPLIED

Aluminium, powder coated, silver
2 lateral guide rails, housing
Electrical drive 230 V
Without switch
Max. width 2,70 m
Cable length 2 m
Please indicate width B and dimension H

APPLICATIONS

- Cupboard for instruments - Tools boxes - Computer racks - Counters - Machine guards

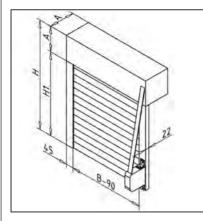
part no. diverse

ASSEMBLY

- Assemble lateral guides with housing

- Fix guides and housing in frame
- Housing A = 152, H up to 1,70 m, part no. 29.0402/0
- Housing A = 167,5, H up to 2,20 m, part no. 29.0403/0
- Housing A = 181, H up to 2,70 m, part no. 29.0404/0
- Stroke H1: H-A

ROLLING DOOR WITH DRIVE





	45	B-90		
	45	B B-90		
1		-	-31	1
22				
	_		12.5	T_

- Fix guides and housing in frame

- Stroke H1: H-A

part no. 29.0405/0

TECHN. DATA / ITEMS SUPPLIED

- Aluminium, powder coated, silver

- 2 lateral guide rails, housing

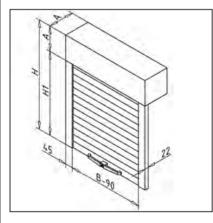
- Max. width

- Please indicate width B and dimension H

APPLICATIONS
 Cupboard for instruments
- Tools boxes
- Computer racks
- Counters
- Machine guards

ROLLING DOOR WITH DRIVE

2,70 m



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, powder coated, silver

- 2 lateral guide rails, housing

- Max. width

- Please indicate width B and dimension H

2,70 m

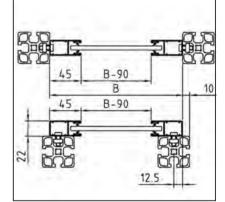


APPLICATIONS

- Cupboard for instruments - Tools boxes - Computer racks - Counters

- Machine guards





ASSEMBLY

- Assemble lateral guides with housing

- Fix guides and housing in frame

- Stroke H1: H-A

SECURITY SWITCH AZ 16 ZVR K

MB MS PC11 MS

TECHN. DATA / ITEMS SUPPLIED

- Security switch, complete with switching pad, type B1, standard, IP 67

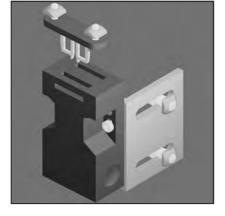
- 1 normally closed, 1 normally open switch

- Force to engage 30 N

- Fastening angle, aluminium, natural anodized

- Fastening kit

- Weight 0,343 kg



APPLICATIONS

- Electrical securing of swing doors, sliding doors, windows

- Suitable for all profiles



ASSEMBLY

- Use fastening kit

- Easy adjustment in x-, y- and z-axis by means of long holes in the angle-bracket

- For small radii use actuating bow B2 part no. 21.1110/2 or B3 part no. 21.1110/3

ANGLE-BRACKET FOR SECURITY SWITCH

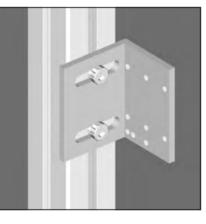
No state of the st

TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural, anodized

- Fastening kit

- Weight 0,128 kg



APPLICATIONS

- For security switches DIN EN 50041

 Fitting to all standard types, facilitated adjustment of the switch in x-, y- and zaxis





ASSEMBLY

- Fasten with fastening kit on profile groove

part no. 21.1110/0

part no. 21.1110/3

ACTUATING BOW FOR SECURITY SWITCH B3

ALL OF AL

TECHN. DATA / ITEMS SUPPLIED

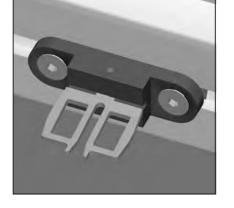
small actuating radii over the small side of

0,032 kg

- Switching pad, type B3, for particularly

the bow

- Weight



APPLICATIONS

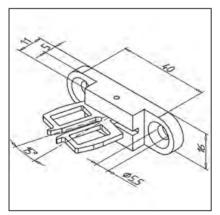
 Actuating bow for small actuating radii in connection with security switch part no.
 21.1110/0 replaces standard bow

ASSEMBLY

- Fasten with fastening kit on profile groove

- Directly in panel element with countersunk screw M5 according to the material thickness

ACTUATING BOW FOR SECURITY SWITCH B2



TECHN. DATA / ITEMS SUPPLIED

- Switching pad, type b2, for particularly small actuating radii over the broad side of the bow

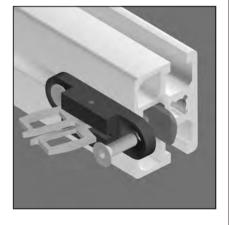
0,032 kg

C D

APPLICATIONS

Actuating bow for small actuating radii in connection with security switch part no.
 21.1110/0 replaces standard bow

part no. 21.1110/2



ASSEMBLY

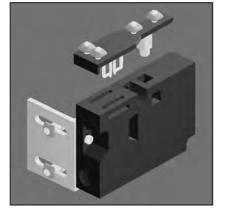
- Fasten with fastening kit on profile groove

 Directly in panel element with countersunk screw M5 according to the material thickness

```
- Weight
```

SECURITY SWITCH WITH LOCK

MB F



TECHN. DATA / ITEMS SUPPLIED

- Switch, type AZM 161SK-12/12RK-024

- Housing thermoplast, black, selfextinguishing
- Protective system IP67, nominal
- operating current 10 A (230 V), driving voltage 24 V AC/DC, power consumption 10 W

- Fastening kit

- Optionally with actuating bow 110 V AC or 230 V AC

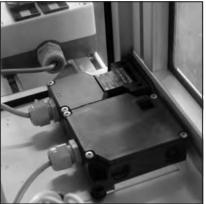
0,475 kg

- Weight

APPLICATIONS

- Protective gears with high requirements to security

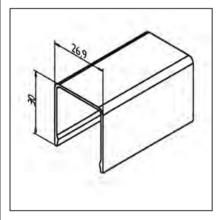
part no. 21.1766/0



ASSEMBLY

- Fasten with fastening kit on profile groove

CONDUIT AL



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural, anodized

- Weight	0,280 kg/m
- Length	6 m



APPLICATIONS

- Cover for cables and pneumatic hoses on all MiniTec aluminium profiles

part no. 20.1051/0



ASSEMBLY

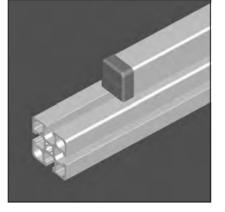
- Clip on cable clips part no.22.1204/0

ASSEMBLY

- Simply push onto the end of the conduit

END CAP CONDUIT AL

Ster 2



TECHN. DATA / ITEMS SUPPLIED

- ABS, grey RAL 7012

- Weight 0,004 kg



End cap for conduit AL
 Fabrication of external angle with

conduit AL

EDGE PROTECTION FOR CONDUIT AL

SEE 2

TECHN. DATA / ITEMS SUPPLIED

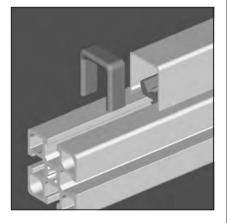
- ABS, grey RAL 7012

- Weight 0,003 kg

APPLICATIONS

- Edge protection for conduit AL

part no. 22.1120/1



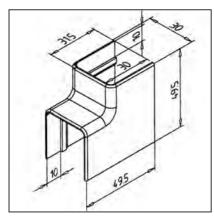
ASSEMBLY

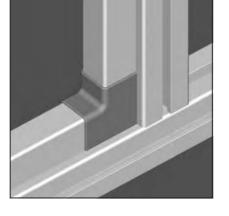
- Simply push onto the end of the conduit

part no. 22.1119/1

INTERNAL ANGLE BRACKET OF CONDUIT AL

part no. 22.1121/1





APPLICATIONS

- Connection of conduit AL to internal angle bracket

ASSEMBLY

- Click the first side of the conduit to collar clamps.

- Insert angle bracket

- Click on the second side of the cable duct and slide along as far as the stop

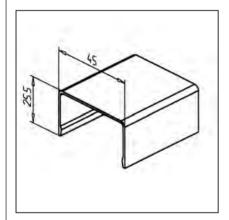
- ABS, grey RAL 7012

TECHN. DATA / ITEMS SUPPLIED

0,01 kg

- Weight

CONDUIT 45 AL



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural, anodized		
- Weight	0,301 kg/m	
- Length	6 m	



APPLICATIONS

- Cover for cables and pneumatic hoses

part no. 20.1071/0



ASSEMBLY

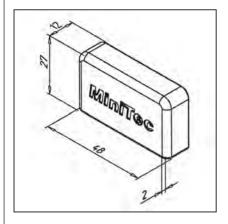
- Clip on cable clips part no. 22.1210/0

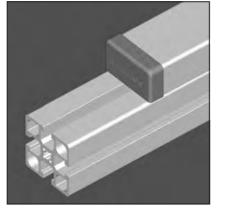
ASSEMBLY

- Clip onto end of conduit 45

END CAP FOR CONDUIT 45 AL

part no. 22.1116/1





TECHN. DATA / ITEMS SUPPLIED

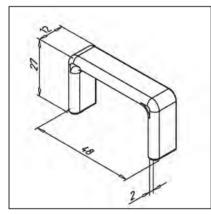
- ABS, grey RAL 7012

- Weight 0,006 kg



- Construction of corners on outside face

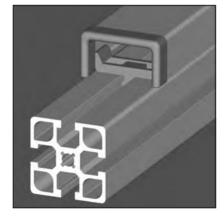
EDGE PROTECTION FOR CONDUIT 45 AL



TECHN. DATA / ITEMS SUPPLIED

- ABS, grey RAL 7012

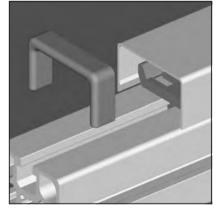
- Weight 0,005 kg



APPLICATIONS

- Edge protection for conduit 45 AL

part 110. 22.1117/



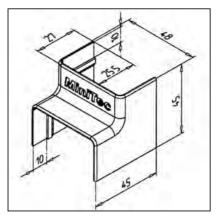
ASSEMBLY

- Clip onto end of conduit 45 AL

part no. 22.1117/1

INTERNAL ANGLE FOR CONDUIT 45 AL

part no. 22.1118/1

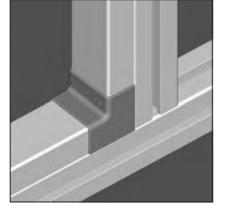


TECHN. DATA / ITEMS SUPPLIED

0,010 kg

- ABS, grey RAL 7012

- Weight



APPLICATIONS

- Connection of conduit 45 AL to internal angle

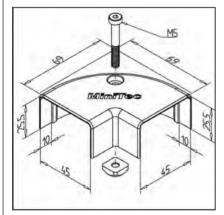
ASSEMBLY

- Clip conduit 1 onto cable clips. Distance for the edge 36 mm

- Insert the angle

- Clip on conduit 2 and push to tight fit

ANGLE BRACKET 90° FOR CABLE CONDUIT 45

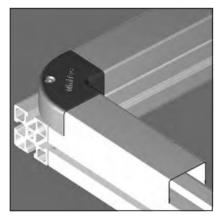


TECHN. DATA / ITEMS SUPPLIED

- ABS, grey RAL 7012

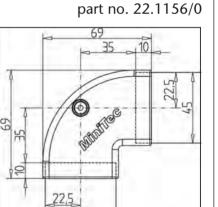
- Fastening kit

- Weight 0,026 kg



APPLICATIONS

- Connection of cable conduit 45

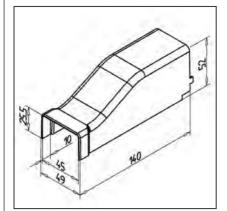


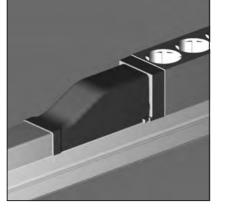
ASSEMBLY

45

- Push both ends of conduit 45, tighten screw

ADAPTER CAP FOR CONNECTOR STRIP FOR CABLE CONDUIT 45 part no. 22.1154/1





APPLICATIONS

ASSEMBLY

TECHN. DATA / ITEMS SUPPLIED

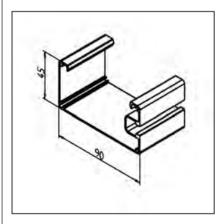
- ABS, grey RAL 7012

- Cover of cable conduit 45

- Clip onto cable conduit 45

- Weight 0,034 kg

CONDUIT 90 AL



TECHN. DATA / ITEMS SUPPLIED

- Aluminium, natural, anodized

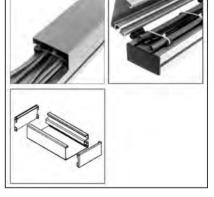
- Weight	0,970 kg/m
- Length	6 m



APPLICATIONS

- Cover for cables and pneumatic hoses

- Suitable for MiniTec profiles, grid
- dimension: 90
- Can also be swung open, when used with hinges
- End ledges with integrated energy supply



part no. 20.1056/0

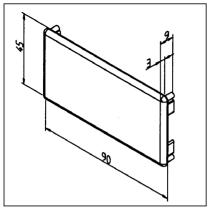
ASSEMBLY

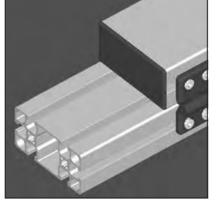
- Clip on cable clips part no. 22.1204/0

- End caps part no. 22.1045/0

END CAP FOR CONDUIT 90 AL

part no. 22.1045/0







0,011 kg

- End cover for conduit 90

APPLICATIONS

- Constructions of corners on outside face

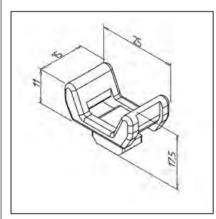
ASSEMBLY

- Clip onto end of conduit 90

CABLE CLIP 30

- ABS, grey RAL 7012

- Weight



TECHN. DATA / ITEMS SUPPLIED

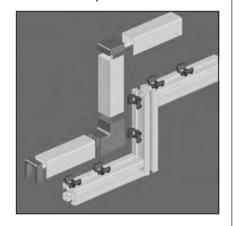
0,002 kg

APPLICATIONS
- Simple and rational fastening of cables

and pneumatic hoses

- Suitable for conduit AL

part no. 22.1212/0



ASSEMBLY

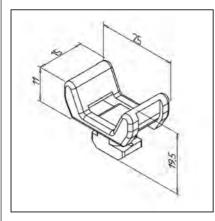
- Insert into profile groove and secure it with a 90° rotation
- Insert cable tie band through the cable clip and around the cable. Bind together, cut off any excessive length

- PA 6, grey

- Weight

CABLE CLIP

part no. 22.1204/0



TECHN. DATA / ITEMS SUPPLIED

0,002 kg

- PA 6, grey

- Weight



APPLICATIONS

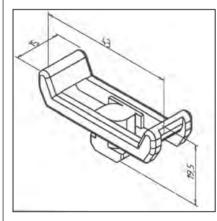
- Simple and rational fastening of cables and pneumatic hoses
- Suitable for conduit 45 AL and conduit 90 AL



ASSEMBLY

- Insert into profile groove and secure it with a 90° rotation
- Insert cable tie band through the cable clip and around the cable. Bind together, cut off any excessive length

CABLE CLIP 45



TECHN. DATA / ITEMS SUPPLIED

- PA 6, grey

- Weight	0,004 kg



- Simple and rational fastening of cables and pneumatic hoses

- Suitable for conduit 45 AL

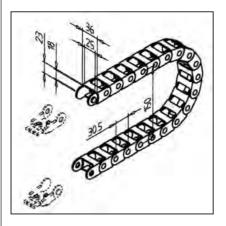
part no. 22.1210/0



ASSEMBLY

- Insert into profile groove and secure it with a 90° rotation
- Insert cable tie band through the cable clip and around the cable. Bind together, cut off any excessive length

ENERGY CHAIN R

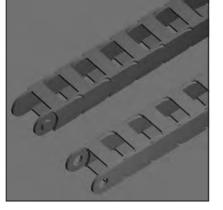


TECHN. DATA / ITEMS SUPPLIED

- Plastic, black

- Weight

- Without fastening kit



APPLICATIONS

- Energy chain to bind cables and hoses on slides and movable elements

- Suitably profile 45 x 45 R part no. 20.1046/0 44

part no. 33.0410/0

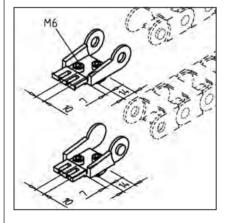
ASSEMBLY

- Fastening of the energy chain by means of mounting brackets part no. 33.0411/0

MOUNTING BRACKETS FOR ENERGY CHAIN R

0,341 kg

part no. 33.0411/0



TECHN. DATA / ITEMS SUPPLIED

0,058 kg

- 1 bracket each left or right

- Plastic, schwarz

- Fastening kit

- Weight

Real Contractions

APPLICATIONS

For fastening energy chain R part no.
 33.0410/0 on profile constructions



ASSEMBLY

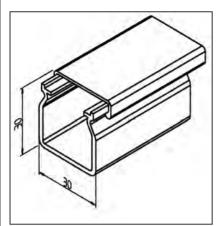
- Use fastening kit

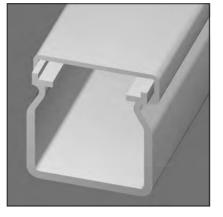
- Use cable tie band to fix cables and hoses

236 MINITEC PROFILE SYSTEM

part no. 22.1082/0

CONDUIT 32





APPLICATIONS

- Assembly of cables or tubings in all kinds of constructions

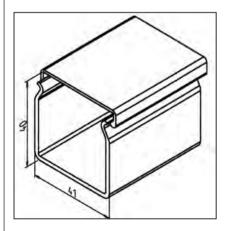
ASSEMBLY

- Fastening with screws M6 x 12 and rhombus-nut M6

TECHN. DATA / ITEMS SUPPLIED

- Hard PVC, grey	
- Snap-cover	
- Cross-section: 660 mm ²	
- Weight	0,323 kg/m
- Length	2 m

CONDUIT 45



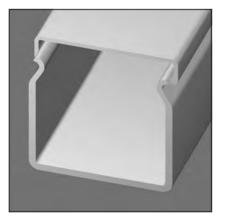
TECHN. DATA / ITEMS SUPPLIED

- Hard PVC, grey
- Snap-cover
- Cross-section: 1584 mm²

- Weight 0,523 kg/m

2 m

- Length



APPLICATIONS

- Assembly of cables or tubings in all kinds of constructions

part no. 22.1084/0

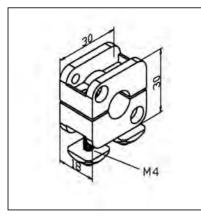


ASSEMBLY

- Fastening with screws M6 x 12 and rhombus-nut M6

PROXIMITY SWITCH HOLDER 12

part no. 28.0120/0





APPLICATIONS

- Fastening of proximity switches Ø 12 mm in profile constructions and linear guides



ASSEMBLY

- On profile groove with fastening kit from supply schedule

TECHN. DATA / ITEMS SUPPLIED

- Hard plastic, black

- Ø 12 mm

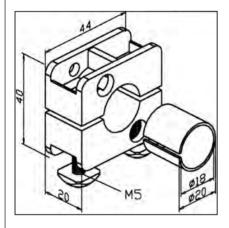
- Fastening kit

- Weight

PROXIMITY SWITCH HOLDER 18

0,050 kg

0,040 kg



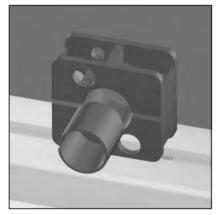
TECHN. DATA / ITEMS SUPPLIED

- Hard plastic, black
- Ø 18 mm

- Ø 20 mm

- Fastening kit

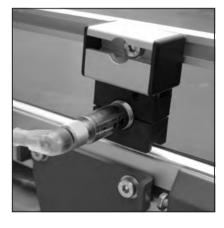
- Weight



APPLICATIONS

- Fastening of proximity switches Ø 18 mm and Ø 20 mm in profile constructions and linear guides

part no. 28.0121/0

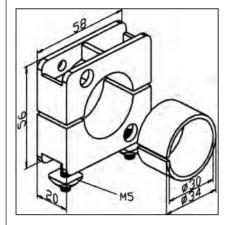


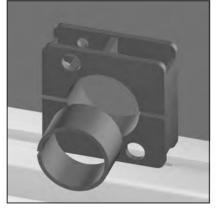
ASSEMBLY

- On profile groove with fastening kit from supply schedule

PROXIMITY SWITCH HOLDER 30

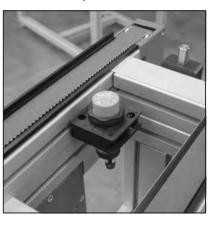
part no. 28.0122/0





APPLICATIONS

- Fastening of proximity switches Ø 30 mm and Ø 34 mm in profile constructions and linear guides



TECHN. DATA / ITEMS SUPPLIED

0,060 kg

- Hard plastic, black
- Ø 30 mm
- Ø 34 mm
- Fastening kit

- Weight

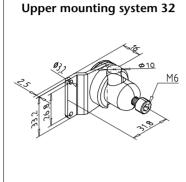
ASSEMBLY

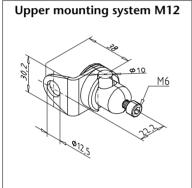
- On profile groove with fastening kit from supply schedule

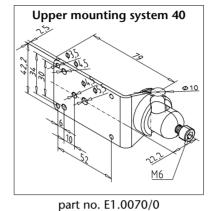
SENSOR HOLDERS

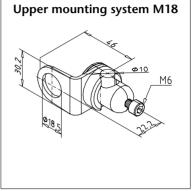
ALL LATERAL HOLDERS CAN BE COMBINED WITH ALL CARRIERS

Carriers





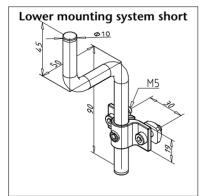




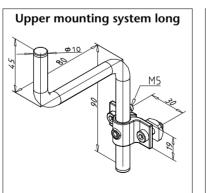
part no. E1.0068/0

part no. E1.0069/0

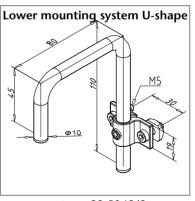
Lateral holders



part no. 29.5046/2







part no. 29.5048/2

part no. E1.0055/0

DRIVE AND CONTROL TECHNOLOGY

ELECTRICAL DESIGN, SWITCH CABINET MANUFACTURING, SOFTWARE DEVELOPMENT AND VISUALIZATION

Solutions and services from a single source

Comprehensive solutions ranging from problem analysis to commissioning are applied effectively and help to reduce resources. We not only provide approved components for plant construction and automation technology – together with our experienced team of professionals we also design and implement individual master plans for material flow and assembly techniques.

All solutions are based on our flexible modular system consisting of profiles, linear guides and elements for ergonomic workplace design. These are complemented by components of pneumatic and control technology, conveyors, workpiece carrier transport systems and drives.

Electrical design

Basis of electrical engineering is hardware design. With our experience in all industry sectors and our long-term cooperation with efficient manufacturers, we are able to select the optimal configuration for each task.

We create the hardware plans using the latest CAD software E-Plan Electric P8. For each development an infor-



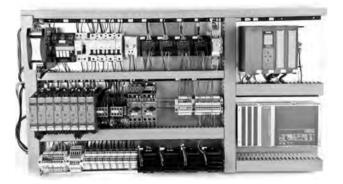
mative documentation is thereby generated. We generally create the control concepts modular with distributed intelligence.

According to the requirements of our customers

and the job definition different bus systems such as Profinet or I / O link are used. The design of the drives is done by our specialists. Here, cost effectiveness and mechanics are considered. In our systems the latest servo technology with integrated safety functions is standard. From these parts skilled professionals create modules which are then assembled into complete automation solutions for individual tasks.

Our objective is to find the best solution to every problem. Even during the planning phase our clients benefit from our extensive experience covering many branches of industry.

Our team provides comprehensive and professional follow-up from initial design to final implementation.



Switch cabinet manufacturing

Switch cabinets are equipped and wired as specified in electrical engineering design and after approval by our customers.

Intensive functional testing using the latest testing equipement guarantees quality and safe operation of our facilities.

Software development

The sequence programs of our systems are created for PLC or PC control. Programming is done with Simatic Step 7 and the TIA Portal to IEC standard. Manufacturer-independent CoDe-Sys programming is also possible. The integration of our solutions into the customer's existing ERP can also be realized on request.



.... Your partner for complete design:

- Consulting
- Planning
- Mechanical and electrical project planning
- Software development and visualization
- Commissioning
- CE compliant versions
- Documentation
- Service such as remote maintenance

Visualization - safely operate and monitor

For safe operation of the plant the unique mapping of control processes is essential. With WinCC flexible we create user interfaces which not only visualize the process, but also visually indicate alarms or display easy to understand help texts for the operator. The operation and setting up of complex systems is made much easier with our mobile HMI panels. The visualization can be individually adjusted by different user levels.

SPURE WHEEL BACK-GEARED MOTOR [TYPEE CB, B5]

Technical Data

Flange version with recess for mounting on engine kit \emptyset 20 is still a motor flange for D120 part no. 29.5033/0 required.

- Nominal Voltage 230 / 400 V
- **50** Hz
- Protective system IP 44
- Weight 7 15 kg



Data given refer to the individual speeds; different levels for one type possible; data sheets upon request. Can also be supplied with brake, heat detector or separate fan as an option; other equipment upon request.

ТҮРЕ	PART NO.	POWER [W]	MIN. OUTPUT SPEED (FOR OUTPUT TORQUE)	MAX. OUTPUT SPEED (FOR OUTPUT TORQUE)
DGM 120-00F	33.0050/1	120	23 U/min (50 Nm)	430 U/min (2,7 Nm)
DGM 120-0F	33.0060/1	120	17 U/min (68 Nm)	57 U/min (20 Nm)
DGM 180-00F	33.0051/1	180	28 U/min (62 Nm)	412 U/min (4,2 Nm)
DGM 180-0F	33.0061/1	180	16 U/min (106 Nm)	61 U/min (28 Nm)
DGM 250-00F	33.0052/1	250	38 U/min (62 Nm)	405 U/min (5,9 Nm)
DGM 250-0F	33.0062/1	250	23 U/min (105 Nm)	114 U/min (21 Nm)
DGM 370-00F	33.0053/1	370	75 U/min (47 Nm)	430 U/min (8,2 Nm)
DGM 370-0F	33.0063/1	370	36 U/min (99 Nm)	360 U/min (9,8 Nm)

PLUG-ON MOTOR FOR CONVEYOR BELT SERIES 45

Technical Data

- Nominal Voltage 230 / 400 V
- **50** Hz
- Protective system IP 44
- Weight approx. 6 kg

For mounting on a drum bearing 45 a torque arm WA part no. 29.5040/0 is required.



ТҮРЕ	PART NO.	POWER [W]	OUTPUTSPEED	OUTPUT TORQUE	CONVEYING SPEED
WA10 DT56 M4 - 17	33.0015/0	90	17 U/min	20 Nm	2,6 m/min
WA10 DT56 M4 - 22	33.0016/0	90	22 U/min	18 Nm	3,4 m/min
WA10 DT56 M4 - 33	33.0017/0	90	33 U/min	15 Nm	5,1 m/min
WA10 DT56 L4 - 67	33.0018/0	120	67 U/min	13 Nm	10,5 m/min
WA10 DT56 L4 - 79	33.0019/0	120	79 U/min	11 Nm	12,4 m/min
WA10 DT56 L4 - 127	33.0020/0	120	127 U/min	7,7 Nm	19,9 m/min
WA10 DT56 L4 - 159	33.0021/0	120	159 U/min	6,3 Nm	24,9 m/min

PLUG-ON MOTOR FOR CONVEYOR BELT SERIES 90*

Technical Data

- Nominal Voltage 230 / 400 V
- **5**0 Hz
- Protective system IP 44
- Weight approx. 7 13 kg



For mounting on a drum bearing 90 a torque arm is required. Torque arm WA20 (part no. 29.5036/0) or torque arm WA30 (part no. 29.5037/0)

ТҮРЕ	PART NO.	POWER [W]	OUTPUTSPEED	OUTPUT TORQUE	CONVEYING SPEED	TORQUE SUPPORT
DSGM 180-60	33.0080/0	180	15 U/min	48 Nm	4.3 m/min	WA20
DSGM 250-48	33.0081/0	250	27 U/min	44 Nm	7.6 m/min	WA20
DSGM 370-39	33.0082/0	370	35 U/min	63 Nm	10 m/min	WA30
DSGM 370-27	33.0083/0	370	50 U/min	49 Nm	14.1 m/min	WA30
DSGM 370-19	33.0084/0	370	71 U/min	38 Nm	20 m/min	WA30
DSGM 550-24	33.0085/0	550	115 U/min	32 Nm	32.5 m/min	WA20

* other performances and conversions on request

FREQUENCY TRANSFORMER FU 370 PP

PART NO. 33.0126/0

Technical Data

- Built-in on / off switch
- Mode 1Q (without brake Chopper)
- Powernet overvoltage and undervoltage monitoring
- motor load monitoring
- Short-circuit monitoring phase / phase, phase / earth
- Adjustable acceleration and deceleration ramp
- Adjustable voltage boost at low output frequency
- Power cord with safety plug 230 V and motor cable, ELPUR, 5m long orange safety plug, color
- EMC filter, Class B
- IP 66 / NEMA 4X enclosure
- Equipped with a control unit, which allows operating the drives without additional devices by default.
- Output power motor side max. Motor power 0.37 kW
- Rated output current max. 2.3 A
- Output voltage 3 x 0...230 V
- 150% overload for 60 seconds
- Input voltage powergrid side rated voltage 230V
- Input current 6.7 A
- Frequency 50 60 Hz
- **–** General data Ambient temperature -10 $^{\circ}$ C to + 40 $^{\circ}$ C
- Heat loss at rated power 11 W
- Dimensions H / W / D: 232 x 161 x 179 mm



MAGNETIC MEASURING SYSTEM

MAGNETIC MEASURING SYSTEM ML

Length and stroke measurement is a standard task in machine and plant construction. A modern and economical solution is the ML magnetic length measurement system with magnetic tape, magnetic sensor, measurement display, or evaluation electronics. The advantages of this system are primarily the direct measurement procedure, being wear-resistant, the simple and economical installation, and the high precision that is possible. The core of this measurement system is the magnetic tape: a flexible, plastic band filled with magnetic particles. Using this tape, a magnetic sensor is moved along and the magnetic fields is probed at regular intervals without making contact. The direction of motion and increments are derived from these scanning signals and processed further in a control system or displayed via the measurement display.

LCD meter display with battery operation incl. Magnetic sensor (part no. 33.0038/0)

- 6-digit LCD display with 14mm character height
- Surface mount housing, aluminum powder coated RAL 5010
- Dimensions W = 125mm, H = 65mm, depth = 85mm.
- Power Battery C (R14, 1.5V)
- Battery compartment on right side
- With mounted magnetic sensor (cable length 0.5m) for fitting to stop slide over Bracket
- Operating temperature -5 to to +45 ° C
- Speed max. 3m / sec, counting frequency to 1MHz
- Actual value memory / offset value, selectable
- Absolute Incremental Conversion
- Measuring tolerance ± 0.1 mm / m





Measuring display for 230V connection part no. 33.0036/0

- 6-digit LCD display with 14mm character height
- Surface mount housing, aluminum powder coated RAL 5010
- Dimensions W = 1115mm, H = 70, depth = 120mm.
- Power supply 230V AC plug.
- 9-pin Sub-D sensor connection via plug-in, TTL 5VDC
- Operating temperature -5 to to +45 ° C
- Speed max. 3m / sec, counting frequency to 1MHz
- Actual value memory / offset value, selectable
- Magnetic Sensor part no. 33.0037/0 Please order separately specifying the desired cable length

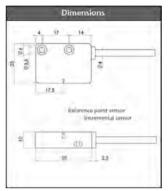
MAGNETIC MEASURING SYSTEM



Magnetic sensor with integrated processor part no. 33.0037/0

- Non-contact measuring scanning unit with integrated digital evaluation
- Detecting the magnetic signals, with index pulse, resolution 10 microns
- In connection with the above-depicted meter
- Suitable for MiniTec profiles, connecting cable integrated
- (2 m) and D-sub connector (larger cable lengths on request up to 20 m).





Magnetic tape part no. 33.0028/0

Techn. data / Items supplied

- Magnetic tape for installation on MiniTec profile surface, length max. 80 m, width 10 mm
- (optional: 5 mm tape width for sticking into the profile groove)

Application

- For all MiniTec linear guides with rails made from profiles
- Length measuring devices
- Material feeding

Assembly

- Stick magnetic tape on profile surface
- Attach sensor on slide
- Distance to the magnetic tape: 1.1 ±0.9 mm

Please indicate desired measuring length (round up to full meters).



PNEUMATIC SYSTEM

The profiles can be used as an air guide and are also visually appealing and economical. The MiniTec standard profiles are particularly well suited for compressed air supply.

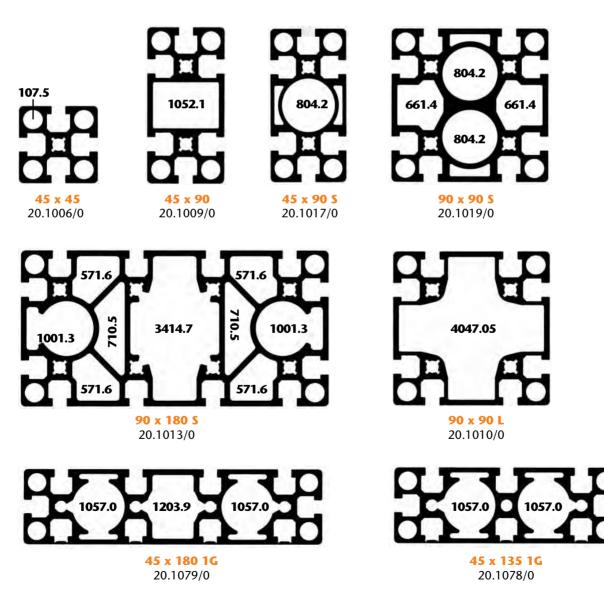
Commercially available connectors can be used without special connection components.

All standard pneumatic elements with thread G 1/8" und G 1/4" can be used with all standard MiniTec profiles. Fixing is possible at any desired point. The standard profile 45 x 45 provides 4 pipes; in the larger profiles 4 pipes and 1 air chamber are included. Parts are required for faceconnection.

The Ø 11.7 mm bore in the standard profiles can be rebored to G 1/4'' for fastening standard screw connecitons. Max. pressure: for round chambers 20 bar; for others: 8 bar.

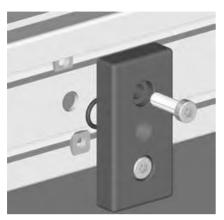


All dimensions in mm²



PNEUMATIC SYSTEM

PNEUMATIC CONNECTION PLATE 45 PNEUMATIC CONNECTION PLATE 45 X 90 PNEUMATIC CONNECTION PLATE 90



THREAD	WEIGHT	PART NO.
G 1/8"	0.170 kg	24.1107/0
G 1/4"	0.168 kg	24.1107/2
G 3/8"	0.165 kg	24.1107/3

PNEUMATIC CONNECTION PLATE 45

Technical Data/Items supplied

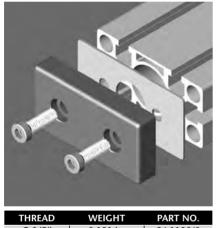
- Aluminium pressure die casting, powder-coated, grey
- One O-ring
- Fastening kit

Applications

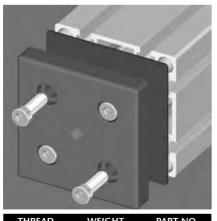
Lateral connection of pneumatic connections at profiles 45 x 90 and 90 x 90

Assembly

- Fasten on to profile grooves with fastening kit
- Drill Ø 12 mm hole in the profile center.



THREAD	WEIGHT	PART NO.
G 1/8"	0.181 kg	24.1105/0
G 1/4"	0.178 kg	24.1105/2
G 3/8"	0.174 kg	24.1105/3



THREAD	WEIGHT	PART NO.
G 1/8"	0.434 kg	24.1106/0
G 1/4"	0.429 kg	24.1106/2
G 3/8"	0.421 kg	24.1106/3

PNEUMATIC CONNECTION PLATE 45 X 90

Technical Data/Items supplied

- Aluminium pressure die casting, powder-coated, grey
- Sealing plate
- Fastening kit

Applications

Closing of chambers of profiles 45 x 90 for connection of pneumatic couplings

Assembly

- Insert sealing plate
- Fasten on to 2 central bores Ø 7.5 mm with fastening kit

PNEUMATIC CONNECTION PLATE 90

Technical Data/Items supplied

- Aluminium pressure die casting, powder-coated, grey
- Sealing plate
- Fastening kit

Applications

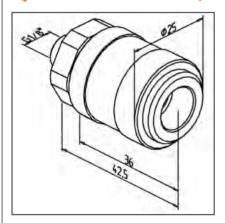
Closing of chambers of profiles 90 x 90 for connection of pneumatic couplings

Assembly

- Insert sealing plate
- Fasten on to 4 central bores Ø 7.5 mm with fastening kit

PLUG part no. 24.1104/0 Image: Constraint of the public of the problem of the public of th

QUICK COUPLING 1/8



TECHN. DATA / ITEMS SUPPLIED

- Brass, nickel plated, NW 7

- Connection G 1/8", A/F 22

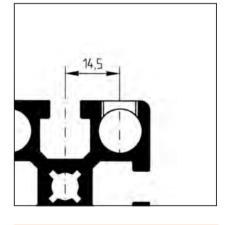
250 MINITEC PROFILE SYSTEM

- Weight 0,064 kg



APPLICATIONS

- Pressed air connection at any desired point on profile surface or faces, Ø 11,7 mm part no. 24.1109/0

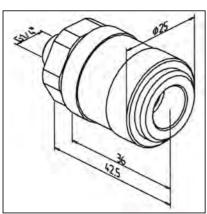


ASSEMBLY

- Bore thread G 1/8" in profile surface; distance from center of profile groove: 14,5 mm

part no. 24.1110/0

QUICK COUPLING 1/4



TECHN. DATA / ITEMS SUPPLIED

- Brass, nickel plated, NW 7

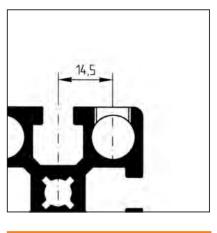
- Connection G 1/4", A/F 22

- Weight



APPLICATIONS

- Pressed air connection at any desired point on profile surface or faces, Ø 11,7 . mm

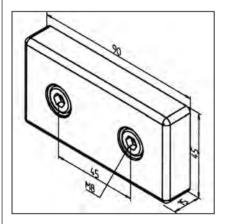


ASSEMBL

- Bore thread G 1/4" in profile surface; distance from center of profile groove: 14,5 mm

PNEUMATIC END PLATE 45 X 90

0,065 kg



TECHN. DATA / ITEMS SUPPLIED

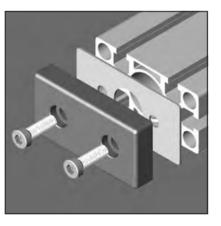
- Aluminium GD, powder coated, grey

- Sealing plate

- Fastening kit

- Weight

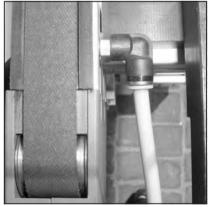
0,181 kg



APPLICATIONS

- Closing of chamber ends of profiles 45 x 90

part no. 24.1105/7



ASSEMBLY

- Insert sealing plate

- Attachment on 2 central bores Ø 7,5 with fastening kit

PNEUMATIC END PLATE 90 X 90

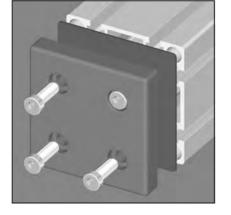
TECHN. DATA / ITEMS SUPPLIED

- Aluminium GD, powder coated, grey

- Sealing plate

- Fastening kit

- Weight



APPLICATIONS

- Closing of chambers of profiles 90 x 90 for connection of pneumatic couplings

part no. 24.1106/7

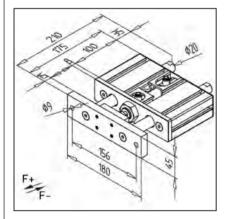
ASSEMBLY

- Insert sealing plate

- Attachment on 4 central bores Ø 7,5 with fastening kit from supply schedule

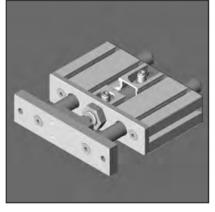
PNEUMATIC LIFTING UNIT 15

0,434 kg



TECHN. DATA / ITEMS SUPPLIED

- Incorporated into profile 4	5 x 180
- Overall cylinder size Ø 25	i mm
- Guide shafts Ø 20 mm	
- F+ with 6 bar =	256 N
- F- with 6 bar =	220 N
- Stroke =	15 mm
- Completely assembled wi cylinder	ith dual acting
- Weight	3,405 kg



APPLICATIONS

- Lifting and lowering of loads

- Attachment for gripper loc. Cit.

- Positioning of parts



ASSEMBLY

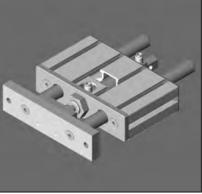
- With mounting angle on profile construction
- Other stroke lengths on request

part no. 24.1201/0

part no. 24.1205/0

PNEUMATIC LIFTING UNIT 50

20 F



TECHN. DATA / ITEMS SUPPLIED

- Incorporated into profile 45 x 180

- Cylinder Ø 25 mm	
- Guide shafts Ø 20 mm	
- F+ with 6 bar = - F- with 6 bar =	265 N 220 N
- Stroke =	50 mm
- Completely assembled v	
cylinder - Weight	3,45 kg
- weight	3,43 kg

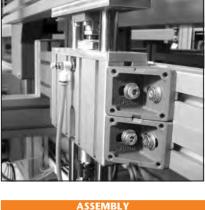


APPLICATIONS

- Lifting and lowering of loads

- Attachment for gripper loc. Cit.

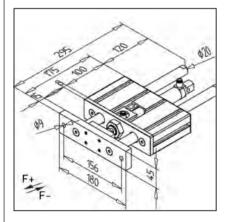
- Positioning of parts



- With mounting angle on profile construction

- Other stroke lengths on request

PNEUMATIC LIFTING UNIT 100



TECHN. DATA / ITEMS SUPPLIED

 Incorporated into profile 45 	5 x 180
· · · · · ·	
- Cylinder Ø 25 mm	
- Guide shafts Ø 20 mm	
- Guide shaits Ø 20 mm	
- F+ with 6 bar =	265 N
- F- with 6 bar =	220 N
- Stroke =	100 mm
- Completely assembled wit	h dual acting
1 5	in uuai acting
cylinder	
- Weight	3,52 kg
	0,0 <u>–</u> ng



APPLICATIONS

- Lifting and lowering of loads

- Attachment for gripper loc. Cit.

- Positioning of parts

part no. 24.1210/0

ASSEMBLY

- With mounting angle on profile construction
- Other stroke lengths on request

Technical Data/Items supplied

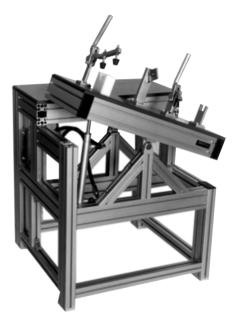
- Hydraulic hand pump for 1 to 6 cylinders
- Cylinders with 150 500 mm stroke
- Hydraulic tubes PA 4 mm
- Single-acting cylinders
- Minimum load for return ~ 5 kg
- Temperature from -20°C to + 45°C

Application

Lifting and lowering of tables, work benches, terminals etc.

Assembly

- Screw pump at desired positon onto the profile groove with screws M6
- Fasten cylinder into aluminium profile "S" with adaptor rings
- Attach cylinder onto profile groove with adaptor plate



Available special models and accessories

- Attachment parts for pumps and add-on cylinders according to customer request
- Attachment set 45 for add-in cylinder part no. 27.0005/0 for all profiles with bore ø 32 except for profile 90 x 90 S and 90 x 180 S. For these, please use attachment set 90, part no. 27.0006/0
- Service kit with oil, screw connections, special spanner, hose cutter, and filling injector

Use great caution when working on the hydraulics. To avoid penetration of air into the hydraulic system, we recommend having this work performed by us.



COMPLETE SYSTEM WITH ADD-ON CYLINDER LA COMPLETE SYSTEM WITH ADD-IN CYLINDER LB



Complete system with add-on cylinder LA – manually

PUMP	PA	PA	PB	PB	PB	РВ		
SYSTEM LOAD	150 kg	300 kg		350 kg				
NUMBER OF CYLINDERS	1	2	3	4	5	6		
LA 150 MAN.	27.0118/1	27.0118/2	27.0118/3	27.0118/4	27.0118/5	27.0118/6		
LA 200 MAN.	27.0122/1	27.0122/2	27.0122/3	27.0122/4	27.0122/5	27.0122/6		
LA 300 MAN.	27.0126/1	27.0126/2	27.0126/3	27.0126/4	27.0126/5	27.0126/6		
LA 400 MAN.	27.0130/1	27.0130/2	27.0130/3	27.0130/4	27.0130/5	27.0130/6		
LA 500 MAN.	27.0134/1	27.0134/2	27.0134/3	27.0134/4	27.0134/5	27.0134/6		
Complete system with add-on cylinder LA – electrically								
LA 150 ELECTR.	27.0119/1	27.0119/2	27.0119/3	27.0119/4	27.0119/5	27.0119/6		

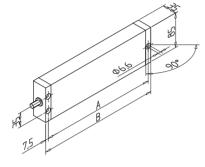






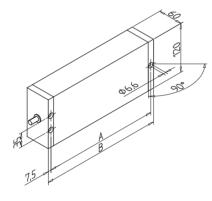
Complete system with add-in cylinder LB – manually							
PUMP	PA	PA	PB	РВ	PB	PB	
SYSTEM LOAD	150 kg	300 kg	350 kg				
NUMBER OF CYLINDERS	1	2	3	4	5	6	
LB 150 MAN.	27.0120/1	27.0120/2	27.0120/3	27.0120/4	27.0120/5	27.0120/6	
LB 200 MAN.	27.0124/1	27.0124/2	27.0124/3	27.0124/4	27.0124/5	27.0124/6	
LB 300 MAN.	27.0128/1	27.0128/2	27.0128/3	27.0128/4	27.0128/5	27.0128/6	
LB 400 MAN.	27.0132/1	27.0132/2	27.0132/3	27.0132/4	27.0132/5	27.0132/6	
LB 500 MAN.	27.0136/1	27.0136/2	27.0136/3	27.0136/4	27.0136/5	27.0136/6	
Complete system with add-in cylinder LB – electrically							
LB 150 ELECTR.	27.0121/1	27.0121/2	27.0121/3	27.0121/4	27.0121/5	27.0121/6	
LB 200 ELECTR.	27.0125/1	27.0125/2	27.0125/3	27.0125/4	27.0125/5	27.0125/6	
LB 300 ELECTR.	27.0129/1	27.0129/2	27.0129/3	27.0129/4	27.0129/5	27.0129/6	
LB 400 ELECTR.	27.0133/1	27.0133/2	27.0133/3	27.0133/4	27.0133/5	27.0133/6	
LB 500 ELECTR.	27.0137/1	27.0137/2	27.0137/3	27.0137/4	27.0137/5	27.0137/6	

HYDRAULIC PUMPS PA FOR 1-2 CYLINDER HYDRAULIC PUMPS PB FOR 3-6 CYLINDER ADD-ON CYLINDER LA



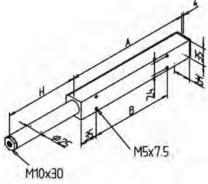
Hydraulic pumps PA for 1-2 Cylinder

ТҮРЕ	Stroke H mm	Dimension A	Dimension B	
		mm	mm	
PA 150	150	283,5	298,5	
PA 200	200	343,5	358,5	
PA 300	300	465,5	480,5	
PA 400	400	585,5	600,5	
PA 500	500	707,5	722,5	



Hydraulic pumps PB for 3-6 Cylinder

ТҮРЕ	Stroke H mm	Dimension A	Dimension B	
	SUOKETTIIIII	mm	mm	
PB 150	150	283,5	298,5	
PB 200	200	343,5	358,5	
PB 300	300	465,5	480,5	
PB 400	400	585,5	600,5	
PB 500	500	707,5	722,5	

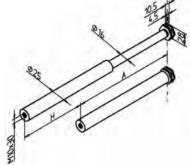


Add-on Cylinder LA

ТҮРЕ	Stroke H mm	Length A mm	Length B mm	lateral load kg max.
LA 150	150	252	165	130
LA 200	200	317	240	97
LA 300	300	442	340	65
LA 400	400	542	340	48
LA 500	500	667	450	29

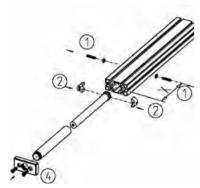
For mounting on a variety of structures by means of adapter plates.

ADD-IN CYLINDER LB ATTACHMENT SET 45 FOR ADD-IN CYLINDER ATTACHMENT SET 90 FOR ADD-IN CYLINDER



Add-on Cylinder LB

TYPE	Stroke H mm	Length A mm	lateral load kg max.
LB 150	150	235	130
LB 200	200	300	97
LB 300	300	425	65
LB 400	400	525	48
LB 500	500	650	29



Attachment set 45 for add-in cylinder (part no. 27.0005/0)

Suitable for all stroke lengths and profile 45 x 90 S, 45 x 135 G and 45 x 180 G

Installation

- 1) Bore Ø 8,5 mm in distance "X" from profile end
- 2) Place two holder pieces on cylinder and insert into the profile bore \emptyset 32 mm
- 3) Position holder pieces according to dimension table (below) and drill, fix with set screw
- 4) Screw guide pipe into connection plate, insert into profile and tighten

Attachment set 90 for add-in cylinder (part no. 27.0006/0)

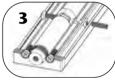
Suitable for all stroke lengths and for profile 90 x 90 S and 90 x 180

Installation

- 1) Bore Ø 8,5 mm in distance "X" from profile end
- 2) Place two holder pieces on cylinder and insert into the profile bore \emptyset 32 mm
- 3) Position holder pieces according to dimension table (below) and drill, fix with set screw
- 4) Screw guide pipe into connection plate, insert into profile and tighten

Table of Dimensions for Attachment Set 45 and 90

CYLINDER	LB 150	LB 200	LB 300	LB 400	LB 500
DISTANCE X (mm)	224	289	414	514	639



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