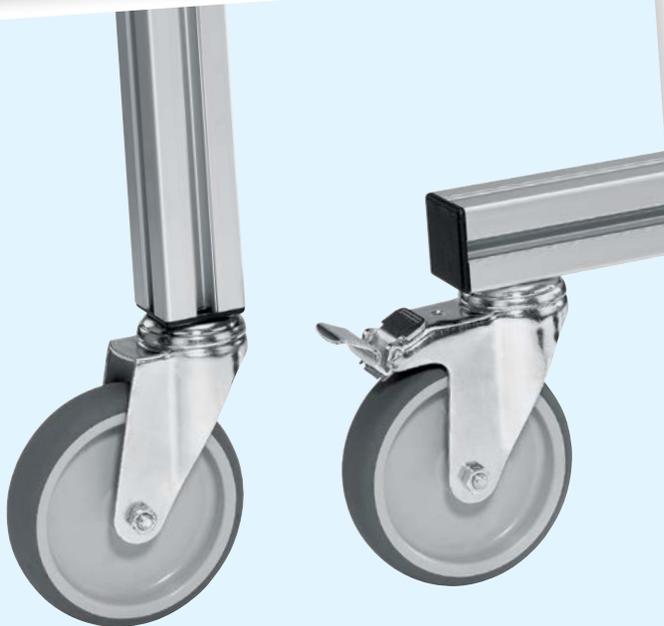
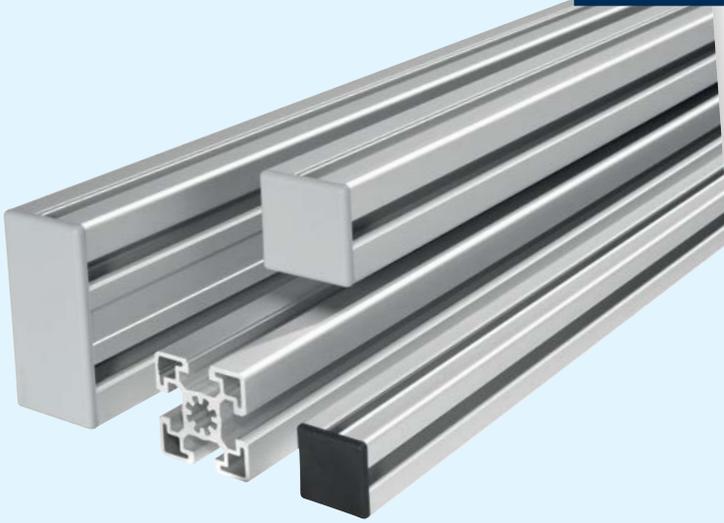


Aluminum Structural Framing System

for Cleanroom Use



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Strut profiles



With more than 120 strut profiles for all types of loading, Bosch Rexroth AG offers the widest product range for different demands:

- ▶ Square and rectangular profiles
- ▶ Light profiles with optimized cross-sections
- ▶ Round profiles and profiles with smooth lateral surfaces

Connectors with high load-bearing capacities combined with ultra robust slots and large central bores make profile connections possible which can handle high static and dynamic loads.

Bosch Rexroth AG offers you six different profile ranges. All profiles within one profile range have the same slot dimensions and spacing to ensure perfect coordination during construction.

Due to their high degree of robustness, the 10 mm slotted profiles are suitable for constructions ranging from tables to heavy machine frames. They are available in four profile series with a slot spacing of 40 mm, 45 mm, 50 mm, or 60 mm.

The profiles with 8 mm and 6 mm slots are used in the construction of lightweight equipment, partition walls, stands, or showcases.

Profile length in profile packaging units

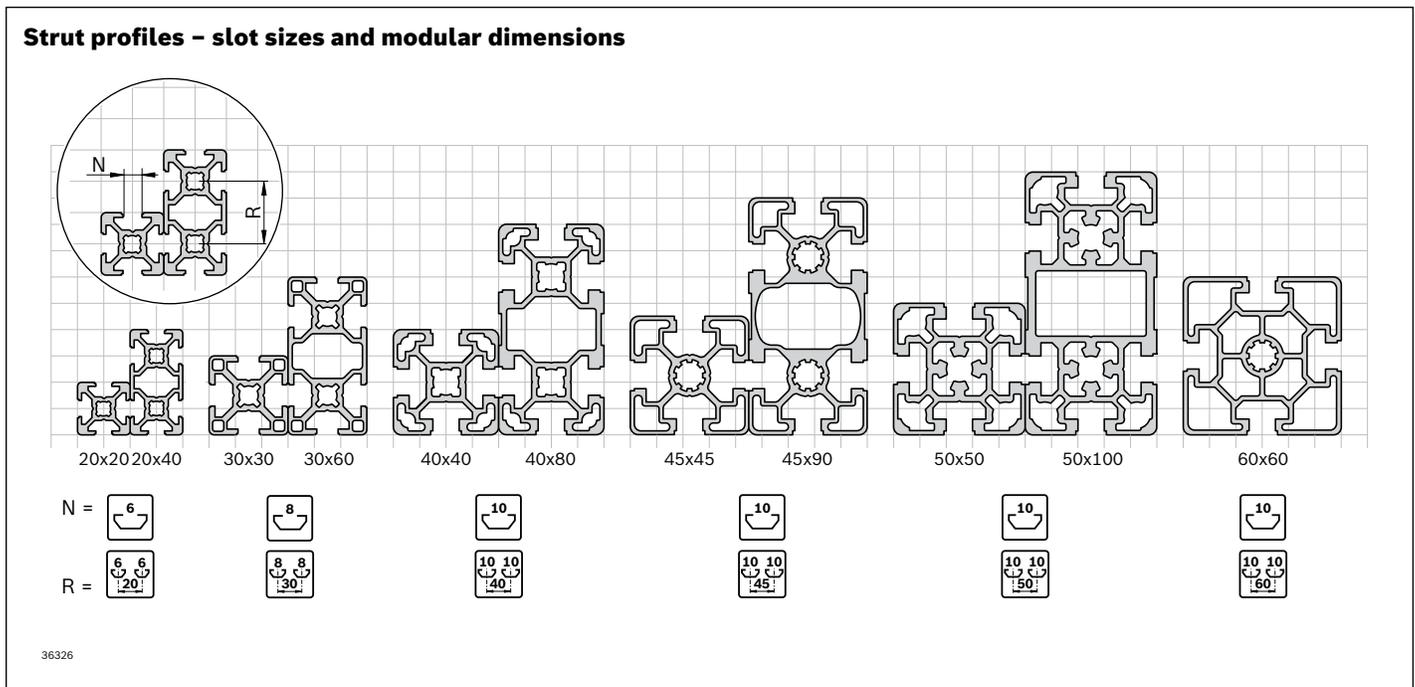
The stated length of the profile packaging units relates to the guaranteed usable length.

During anodizing as part of the manufacturing process bare areas which are approx. 30 mm long are left at each end of the profile (= contact areas), so the profiles are generally supplied incorporating an excess length of 100 mm.

Example:

45x45L	L (mm)	No.
20 pcs	6070	3 842 553 611

Notice: The length dimension “L” in the table equals the usable length, whereas the actual length is approx. 100 mm longer.



Slot size N = 6 mm, 8 mm, 10 mm

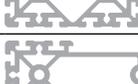
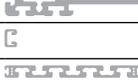
Modular dimensions R = 20 mm, 30 mm, 40 mm, 45 mm, 50 mm, 60 mm

Technical data – profiles

Profile	Slot	Profile surface	Moment of inertia		Moment of resistance		Torsion index		Weight m (kg/m)	
			A (cm ²)	I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)	I _t (cm ⁴)		W _t (cm ³)
20x20		6	1.6	0.7	0.7	0.7	0.7	0.08	0.17	0.4
20x20 1N		6	1.9	0.8	0.8	0.8	0.8	0.60	0.67	0.5
20x20 2N		6	1.8	0.7	0.8	0.7	0.8	0.31	0.52	0.5
20x20 2NVS		6	1.8	0.7	0.7	0.7	0.7	0.37	0.52	0.5
20x20 3N		6	1.7	0.7	0.8	0.7	0.7	0.19	0.34	0.5
20x20 R		6	1.6	0.6	0.6	0.5	0.5	0.21	0.39	0.4
20x40		6	2.9	4.6	1.2	2.5	1.4	0.68	0.91	0.8
20x60		6	3.5	14.2	1.7	4.7	1.7	2.30	2.00	0.9
20x40x40		6	4.2	6.0	6.0	2.6	2.6	1.50	1.30	1.1
10x40		6	2.1	3.2	0.2	1.6	0.4	–	–	0.6
30x30		8	3.1	2.8	2.8	1.8	1.8	0.29	0.33	0.9
30x30 1N		8	3.7	3.1	3.5	2.0	2.3	2.80	1.50	1.0
30x30 2N		8	3.5	2.8	3.5	2.1	2.7	1.50	1.20	1.0
30x30 2NVS		8	3.5	3.1	3.1	2.0	2.0	1.70	1.10	1.0
30x30 3N		8	3.3	3.1	2.8	2.3	2.1	0.86	0.73	0.9
30x30°		8	3.7	3.5	3.6	2.0	1.9	1.50	2.00	1.0
30x45°		8	4.0	3.6	5.1	2.1	2.3	2.10	2.40	1.1
30x60°		8	3.6	3.0	4.1	1.7	1.9	1.50	2.00	1.0
30x30 R		8	2.9	2.3	2.3	1.4	1.4	0.81	1.20	0.8
30x60		8	5.5	19.6	5.1	7.0	3.9	2.60	2.10	1.5
30x60 4N		8	5.8	20.2	5.5	6.7	3.8	4.80	2.40	1.6
30x60x60		8	8.2	26.2	26.2	7.6	7.6	6.40	3.60	2.2
30x90		8	7.7	60.7	7.3	13.5	4.9	5.10	3.80	2.1
30x120		8	9.9	136.3	9.6	22.7	6.4	7.60	5.60	2.7
30x45		8/10	4.0	8.1	3.9	3.9	2.9	1.30	1.30	1.1
60x60 8N		8	9.8	39.7	39.7	13.2	13.2	19.30	6.80	2.6
11x20		8	1.0	0.5	0.1	0.7	0.3	–	–	0.3
15x120		8	9.0	110.4	2.2	18.4	2.7	–	–	2.4
40x40L		10	5.6	9.1	9.1	4.5	4.5	1.30	0.74	1.5
40x40L 0N		10	6.3	10.4	10.4	5.2	5.2	10.70	4.30	1.7
40x40L 1N		10	6.1	9.8	10.3	4.7	5.1	6.90	3.70	1.7
40x40L 2N		10	6.0	9.0	10.3	4.5	5.2	4.00	3.00	1.6
40x40L 2NVS		10	6.0	9.7	9.7	4.9	4.9	4.50	2.70	1.6
40x40L 3N		10	5.8	9.7	9.0	4.8	4.5	2.60	1.70	1.6
40x30°		10	6.2	9.4	11.8	4.7	5.9	3.00	3.10	1.7
40x45°		10	6.8	9.9	16.6	5.0	8.3	4.20	3.70	1.8
40x60°		10	6.3	8.7	13.1	4.3	6.5	3.00	3.10	1.7
40x40L R		10	5.0	7.2	7.2	3.6	3.6	2.50	2.00	1.3
40x40 HR		10	5.5	8.1	7.6	4.0	3.6	4.60	2.80	1.5

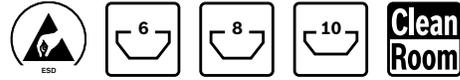
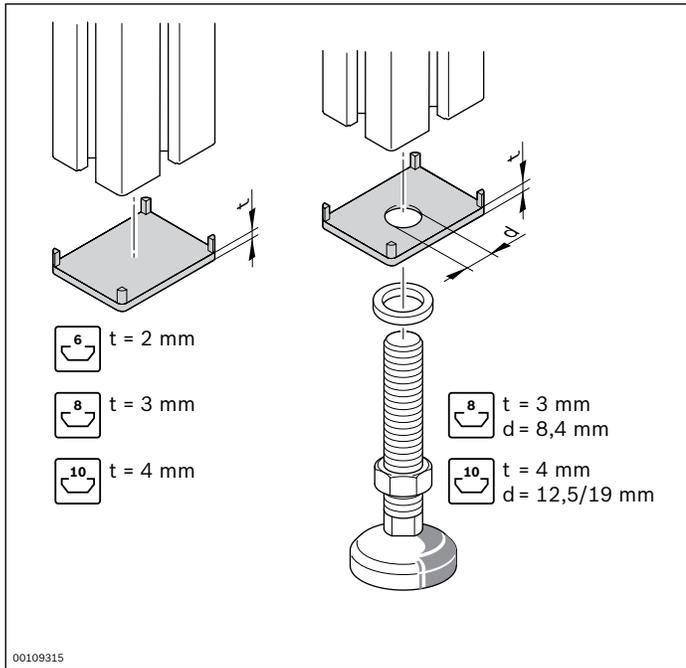
Profile	Slot	Profile surface	Moment of inertia		Moment of resistance		Torsion index		Weight m (kg/m)	
			A (cm ²)	I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)	I _t (cm ⁴)		W _t (cm ³)
40x80L		10	9.9	63.4	17.3	15.9	8.7	8.02	4.80	2.7
40x80L 2N		10	10.9	66.6	20.8	16.6	10.4	22.40	7.58	2.9
40x80L 4N		10	10.4	65.2	19.1	16.3	9.9	13.30	4.40	2.8
40x80L 2NVS		10	10.7	67.8	19.0	17.0	9.5	19.24	7.55	2.9
40x80L 3NVS		10	10.6	67.8	19.0	17.0	9.5	15.90	5.20	2.9
40x80x80L		10	15.4	96.6	96.6	24.2	24.2	19.60	9.80	4.2
40x120L		10	15.5	203.2	27.8	33.9	13.9	17.20	10.00	4.2
40x160L		10	20.5	466.7	37.2	58.3	18.6	25.80	14.60	5.5
80x80L		10	18.2	132.1	132.1	33.0	33.0	59.80	17.20	4.9
80x80L 4N		10	19.1	142.5	142.5	35.6	35.6	83.90	15.4	5.2
80x80L 4NVS		10	19.3	142.5	142.5	35.6	35.6	92.00	16.80	5.2
80x80L 6N		10	18.8	134.1	140.9	33.5	36.2	72.60	15.00	5.1
40x120x120L		10	24.6	318.0	318.0	42.2	42.2	37.10	19.00	6.7
80x120L		10	25.6	389.2	192.8	64.9	48.2	119.00	29.10	6.9
80x160L		10	32.9	850.7	253.4	106.3	63.4	182.00	41.10	8.9
45x45L		10	6.0	11.7	11.7	5.2	5.2	1.46	0.75	1.6
45x45L 0N		10	6.7	13.5	13.5	6.0	6.0	16.20	6.10	1.8
45x45L 1N		10	6.5	12.6	13.5	5.5	6.0	10.00	5.20	1.8
45x45L 2N		10	6.4	11.6	13.5	5.2	6.0	5.50	4.30	1.7
45x45L 2NVS		10	6.4	12.6	12.6	5.6	5.6	6.30	3.80	1.7
45x45L 3N		10	6.2	12.6	11.7	5.4	5.2	3.40	2.40	1.7
45x30°		10	6.9	12.7	15.2	5.0	5.3	6.60	5.70	1.9
45x45°		10	7.6	13.4	21.4	5.2	6.4	9.00	6.80	2.0
45x60°		10	6.8	11.4	16.9	4.4	5.2	6.80	4.30	1.8
45x45L R		10	4.9	8.6	8.6	5.0	5.0	3.30	2.80	1.3
45x45HR		10	6.6	11.0	10.7	4.4	4.8	7.60	3.40	1.8
45x45		10	7.5	13.8	13.8	6.1	6.1	2.65	0.96	2.0
45x60		10	11.0	37.2	22.7	12.4	10.1	6.70	4.09	3.0

Technical data – profiles (continued)

Profile	Slot	Profile surface	Moment of inertia		Moment of resistance		Torsion index		Weight m (kg/m)	
			A (cm ²)	I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)	I _t (cm ⁴)		W _t (cm ³)
45x90SL		10	9.0	73.4	18.1	16.3	8.0	8.57	4.00	2.4
45x90L		10	11.3	82.0	23.6	18.2	10.5	15.10	4.40	3.0
45x90L 2N		10	12.0	26.9	85.6	6.0	38.1	31.70	7.70	3.2
45x90L 2NVS		10	12.0	25.9	90.6	5.7	40.3	23.34	9.65	3.3
45x90L 3NVS		10	11.8	87.2	25.2	38.8	5.6	25.70	6.60	3.2
45x90		10	15.4	124.6	32.8	27.7	14.6	15.40	6.61	4.2
45x180		10	25.5	766.7	57.3	85.2	25.5	44.40	17.00	6.9
45x270		10	61.9	3962.0	118.0	300.2	61.6	–	–	16.7
45x90x90L		10	21.2	152.1	152.1	19.1	19.1	34.90	11.60	5.7
45x90x90L 4N		10	22.1	160.8	160.8	30.6	30.6	65.30	17.20	6.0
90x90SL		10	14.1	130.2	130.2	28.9	28.9	42.50	13.90	3.8
90x90L		10	24.1	211.1	211.1	46.9	46.9	82.10	20.10	6.5
90x90L 4N		10	24.2	227.4	214.7	50.5	47.7	122.00	22.20	6.5
90x90L 4NVS		10	24.2	220.9	220.9	49.2	49.2	127.00	22.00	6.5
90x90		10	38.4	299.8	299.8	66.7	66.7	118.60	26.00	10.4
90x180L		10	42.8	1380.0	401.0	153.3	89.1	257.00	47.10	11.6
90x180		10	63.6	2138.3	544.3	237.6	121.0	429.00	64.00	17.2
90x360		10	90.2	14065.0	710.0	781.4	157.7	937.10	117.60	24.4
15x22.5		10	1.3	0.8	0.3	0.9	0.6	–	–	0.3
15x180		10	11.6	321.7	3.2	35.7	4.2	–	–	3.1
22.5x45		10	4.7	7.1	2.9	3.2	2.6	–	–	1.3
22.5x180		10	21.6	581.0	11.8	66.8	14.7	–	–	5.8
50x50L		10	9.3	21.2	21.2	8.5	8.5	5.37	4.30	2.5
50x100L		10	17.2	162.8	42.6	32.6	17.0	29.43	10.70	4.6
50x150L		10	25.8	540.0	64.2	72.0	25.7	52.10	20.50	6.9
100x100L		10	29.9	318.3	318.3	63.7	63.7	153.53	31.40	8.1
100x200L		10	54.0	2133.1	602.1	213.3	120.4	421.00	75.70	14.6

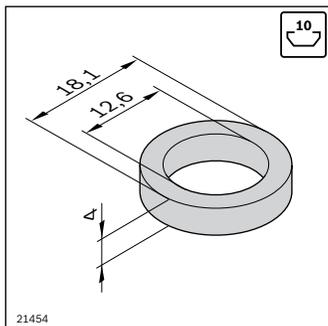
Profile	Slot	Profile surface A (cm ²)	Moment of inertia		Moment of resistance		Torsion index		Weight m (kg/m)	
			I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)	I _t (cm ⁴)	W _t (cm ³)		
60x60L		10	9.6	32.4	32.4	10.8	10.8	13.20	8.70	2.6
60x60		10	14.4	52.2	52.2	17.4	17.4	15.90	8.80	3.9
60x90		10	25.8	214.2	90.5	47.6	30.2	45.80	18.00	7.0
50x50 Rectangular tube		10	4.5	15.1	15.1	5.7	5.7	-	-	1.2
Frame profile 22.5x30		10	3.2	1.7	3.0	1.5	2.0	-	-	0.9
Frame profile 22.5x45		10	3.4	6.7	1.7	2.8	1.3	-	-	0.9
Angle profile		10	4.5	8.8	6.9	3.2	2.3	-	-	1.2
Suspension profile		10	2.0	2.0	0.5	2.7	0.3	-	-	0.6
30x100 L/R Slotted plate		10	9.7	88.8	9.2	17.8	6.0	-	-	2.6
30x100 M Slotted plate		10	9.7	88.8	9.2	17.8	6.0	-	-	2.6
Profile rail 30x45C		10	4.4	10.3	5.6	4.2	3.7	-	-	1.2
U-profile		10	4.4	10.4	8.3	4.6	4.1	-	-	1.2
SP 2/R		8	5.2	4.3	11.7	2.4	5.2	-	-	1.4
SP 2/B		10	10.4	49.6	25.8	12.1	11.5	-	-	2.8
SP 2/B-50		8/10	6.9	16.1	16.9	5.3	7.5	-	-	1.9
SP 2/B-100		10	11.9	95.1	30.4	20.0	13.5	-	-	3.2
SP 2/BH		10	12.4	53.7	28.6	14.0	13.8	-	-	3.3
SP 4/R		10	26.1	222.0	95.5	84.9	16.4	-	-	3.5
D28			2.4	1.5	1.5	1.1	1.1	-	-	0.7
D28x55			5.9	3.2	88.3	2.3	32.1	-	-	1.6
D28L			1.8	1.3	1.3	1.0	1.0	-	-	0.5
D28L; N10			2.6	1.2	2.0	0.8	1.4	-	-	0.7
Section profile MV45x45		10	6.2	11.8	10.5	5.3	4.7	-	-	1.7
30x30 WG30		8	3.2	2.5	3.0	1.6	1.9	-	-	0.9
30x30 WG40		8	3.2	2.4	2.9	1.5	1.8	-	-	0.9
30x45 WG30		8	4.5	7.3	4.2	3.2	2.7	-	-	1.2
30x45 WG40		8	4.5	6.9	4.1	4.3	1.8	-	-	1.2

Cover caps



- ▶ To prevent injuries at open profile ends
- ▶ Attractive design
- ▶ Cover cap with hole for use with leveling feet and rollers
- ▶ Cover cap material: PA or PP

Order information for the cover caps can be found in the profile section

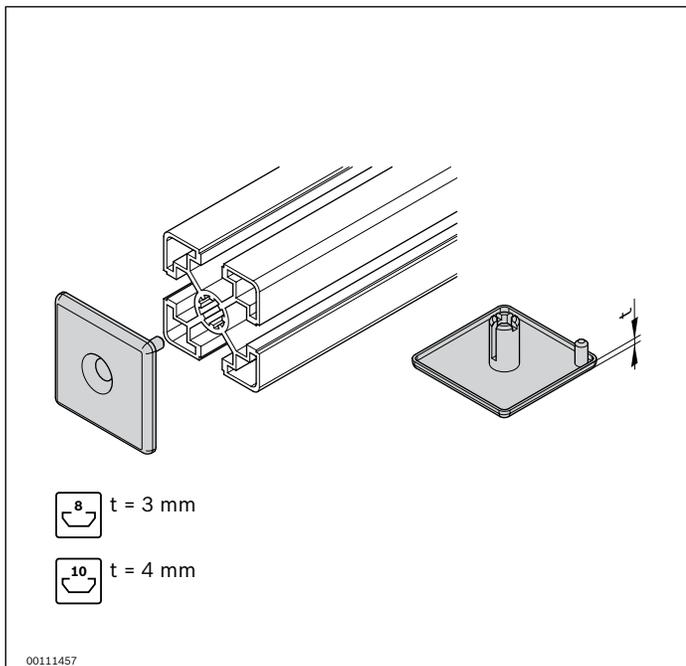


Bearing ring

- ▶ For cover caps with hole in the sizes 40x40, 45x45, 50x50 and 60x60
- ▶ For M12 threads
- ▶ To protect the cover caps when tightening accessories

Bearing ring	ESD No.	No.
		100 3 842 555 653

Material: Diecast zinc

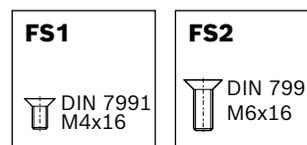


Diecast zinc cover cap

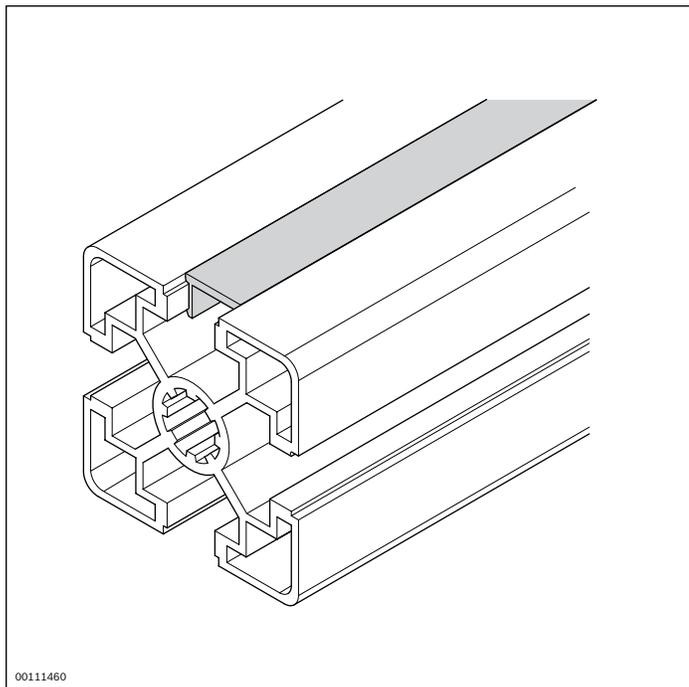
- ▶ Shock-proof
- ▶ Resistant to aggressive media
- ▶ Fastening with countersunk screw; profile finishing not required

Cover cap ZN	ESD No.	FS
30x30-ZN	3 842 518 204	FS1
40x40-ZN	3 842 541 807	FS2
45x45-ZN	3 842 518 205	FS2

Material: Cover cap: Diecast zinc
Fastening material: Steel; zinc-plated



Cover profiles



- ▶ For fixing cables in position
- ▶ To prevent dirt from entering the profile slot
- ▶ Attractive design
- ▶ Soft PVC cover profile for 6 mm slot is provided as a roller
- ▶ Flush with profile
- ▶ An ESD-conductive connection between the cover profile and the strut profile must be ensured by a suitable design solution, e.g. screw

Cover profile, 6 mm slot	Color	Material	ESD	L (mm)		No.
 00109365	Colorless, natural	Aluminum; anodized		2000	10	3 842 523 254
 00117777	Signal gray (RAL 7035)	Soft PVC		10000	1	3 842 555 268
Cover profile, 8 mm slot	Color	Material	ESD	L (mm)		No.
 00109366	Colorless, natural	Aluminum; anodized		2000	10	3 842 523 256
 00109367	Signal gray (RAL 7004)	PP		2000	10	3 842 548 878
	Black (RAL 9005)	PP		2000	10	3 842 548 879
	Light gray (RAL 7035)	PP		2000	10	3 842 548 898
	Red (RAL 3020)	PP		2000	10	3 842 549 878
	Yellow (RAL 1023)	PP		2000	10	3 842 549 879
	Green (RAL 6032)	PP		2000	10	3 842 554 771
	Blue (RAL 5010)	PP		2000	10	3 842 549 880
	Orange (RAL 2004)	PP		2000	10	3 842 549 881
	Colorless, transparent	PET		2000	10	3 842 549 877
Cover profile, 10 mm slot	Color	Material	ESD	L (mm)		No.
 00109368	Colorless, natural	Aluminum; anodized		2000	10	3 842 523 258
 19502	Signal gray (RAL 7004)	Hard PVC		2000	10	3 842 548 876
	Black (RAL 9005)	Hard PVC		2000	10	3 842 548 877
	Light gray (RAL 7035)	Hard PVC		2000	10	3 842 518 367
	Red (RAL 3020)	Hard PVC		2000	10	3 842 518 368
	Yellow (RAL 1023)	Hard PVC		2000	10	3 842 518 369
	Yellow (RAL 6032)	Hard PVC		2000	10	3 842 549 888
	Blue (RAL 5010)	Hard PVC		2000	10	3 842 538 955
	Orange (RAL 2004)	Hard PVC		2000	10	3 842 538 957
	Colorless, transparent	Hard PVC		2000	10	3 842 191 182

Design elements – Well-arranged connections, clear marking

SIGNAL GRAY

The signal gray (RAL7004) color variant meets the market requirement for a subtle color scheme for fixtures and therefore provide the application with a harmonious and calm appearance. The low-contrast aluminum structure forms the optical background and leaves open room for customer-specific design elements.



ESD BLACK

As the only modular profile system on the market, Rexroth offers all standard and ESD accessories in gray and black. The conductive plastic components can discharge voltage and ensure equipotential bonding in the frame. The showstopper: Black ESD components make it easy to visually distinguish ESD applications from non-ESD applications.

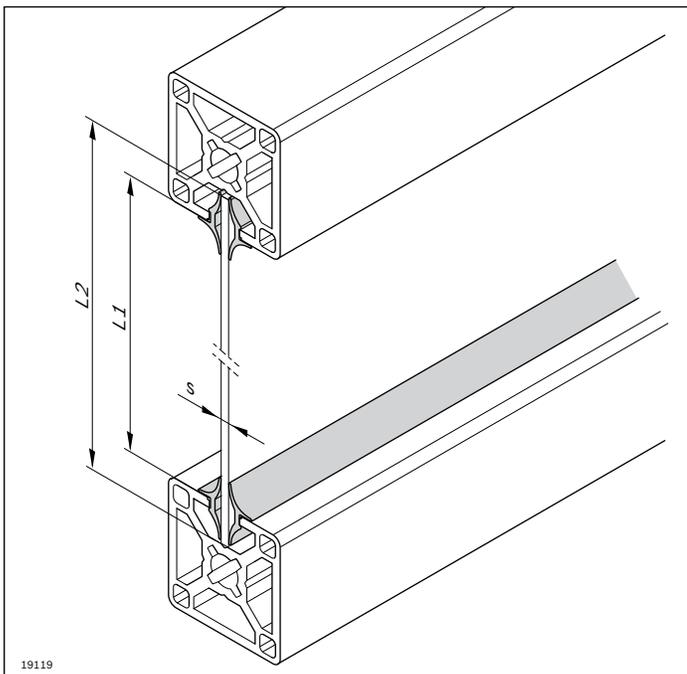


designLINE – THE PERFECT COMBINATION OF QUALITY AND FUNCTION

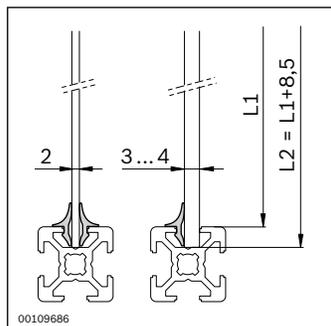
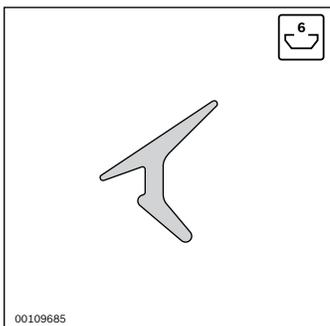
You value good design? The *designLINE* version of our proven die-cast connectors features an impressive and high-quality appearance. Thanks to special pointing in “RAL 9006 white aluminum”, the appearance of your application is further improved by visually seamless adaptation to aluminum profiles. The paint is also scratch-resistant. A special highlight: The ESD-compatibility of connections is maintained.



Panel support profile clean room

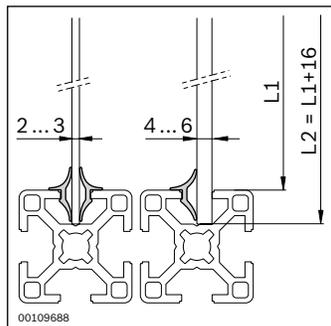
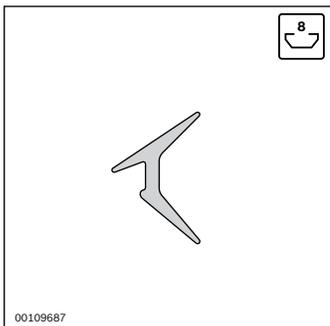


- ▶ For the play-free mounting of panel elements in the profile slot
- ▶ For panel elements with a thickness of 2 ... 8 mm
- ▶ For use on one or two sides of the panel support profile, depending on the panel element thickness
- ▶ Installation during profile frame assembly
- ▶ Can be used under cleanroom conditions
- ▶ Checked for emission of volatile organic substances at room temperature, 50 °C and 120 °C, Report No. BO 9903-160



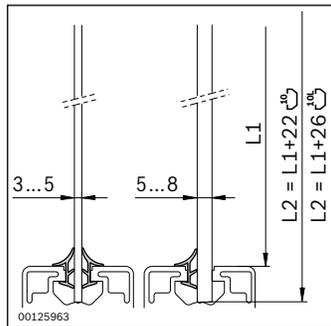
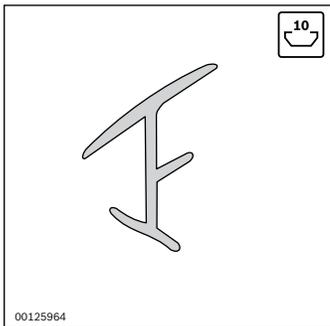
Panel support profile cleanroom	Slot s (mm)	L (mm)	No.
	6	2 ... 4	10000 3 842 523 493

Material: TPE, light gray RAL 7035



Panel support profile cleanroom	Slot s (mm)	L (mm)	No.
	8	2 ... 6	10000 3 842 523 494

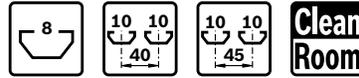
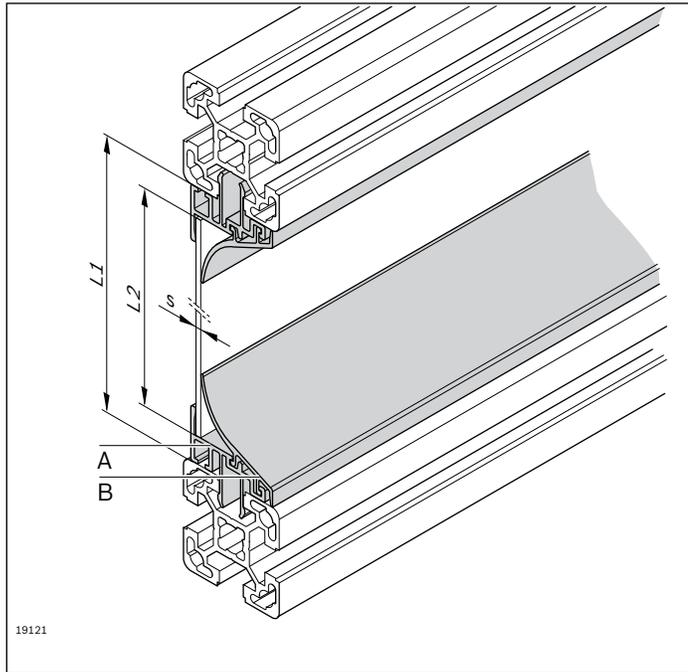
Material: TPE, light gray RAL 7035



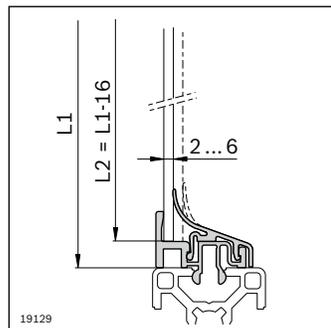
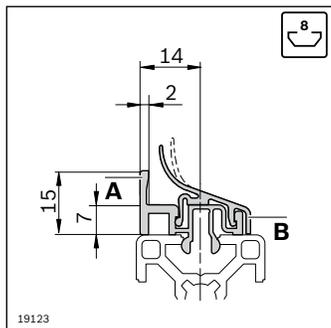
Panel support profile cleanroom	Slot s (mm)	L (mm)	No.
	10	3 ... 8	10000 3 842 555 282

Material: TPE; signal gray RAL 7004

Protective panel support profile cleanroom

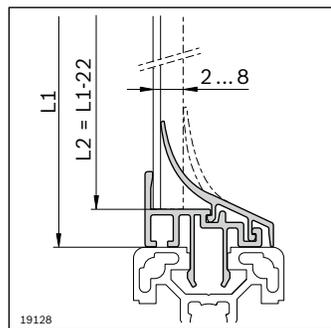
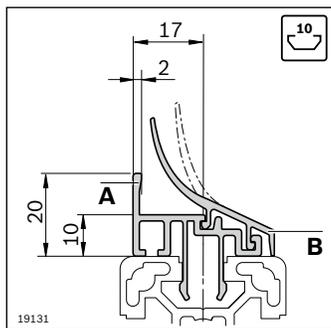


- ▶ For the play-free mounting of panel elements
- ▶ For panel elements with a thickness of 2 ... 8 mm
- ▶ For subsequent installation in closed frame constructions
- ▶ Installation of panel elements flush with the profile edge
- ▶ The protective panel support profile consists of the basic profile (**A**) and the clip-on strip (**B**). Both profiles are required for proper functioning.
- ▶ Can be used under cleanroom conditions
- ▶ Checked for emission of volatile organic substances at room temperature, 50 °C and 120 °C, Report No. BO 9903-161



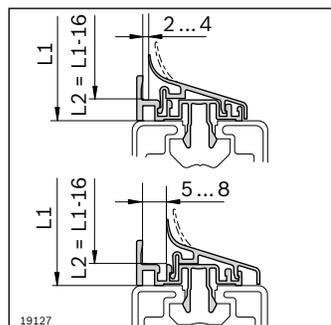
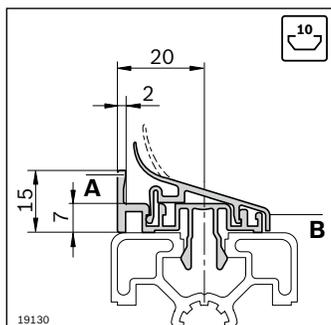
Protective panel support profile cleanroom	Slot s (mm)	L (mm)	No.
A Basic profile	8	2 ... 6	2000 10 3 842 524 025
B Clip strip	8	2 ... 6	2000 10 3 842 555 288

Material: Basic profile: Aluminum; anodized
Clip strip: PP/TPE; signal gray RAL 7004



Protective panel support profile cleanroom	Slot s (mm)	L (mm)	No.
A Basic profile	10	2 ... 8	2000 10 3 842 529 761
B Clip strip	10	2 ... 8	2000 10 3 842 555 292

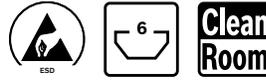
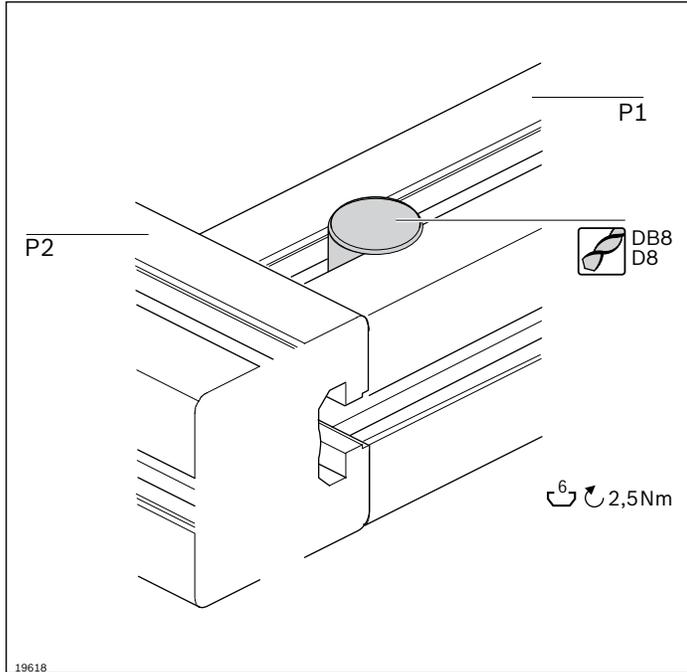
Material: Basic profile: Aluminum; anodized
Clip strip: PP/TPE; signal gray RAL 7004



Protective panel support profile cleanroom	Slot s (mm)	L (mm)	No.
A Basic profile	10	2 ... 8	2000 10 3 842 524 027
B Clip strip	10	2 ... 8	2000 10 3 842 555 290

Material: Basic profile: Aluminum; anodized
Clip strip: PP/TPE; signal gray RAL 7004

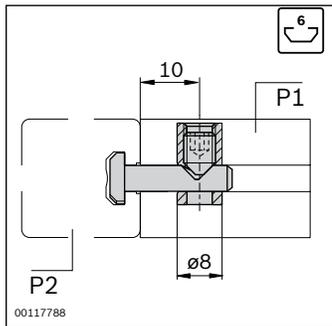
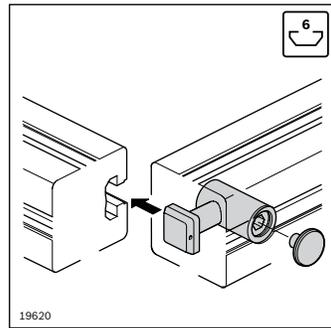
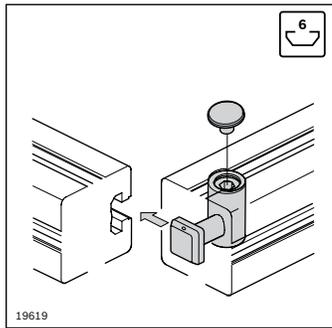
Quick connector: 6 mm slot, 0°, 90° – Cover cap



- ▶ For the right-angled connecting of two profiles
- ▶ Excellent accessibility for tools during mounting
- ▶ Quick connector for 6 mm slot with square head; can be used as a 0° or 90° connector
- ▶ Profile finishing:
Blind hole DB8 or through-hole D8

Accessories:

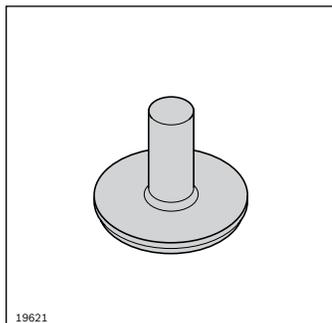
- ▶ Drilling jig



Slot	F_{max}	M_{max}
6 / 6	450 N	18 Nm

Quick connector 0° / 90°	P1 / P2	D ESD	No.
		(mm)	
	6 / 6	8	10 3 842 537 013

Material: Steel; stainless

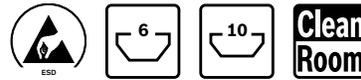
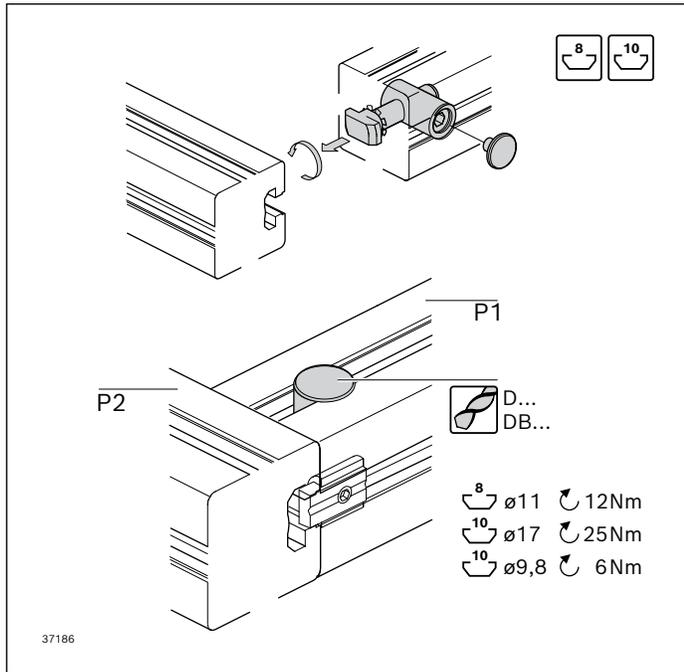


- ▶ Cover cap for connector sleeves

Cover cap	D	No.
	(mm)	
	8	100 3 842 551 038

Material: PE; signal gray RAL 7004

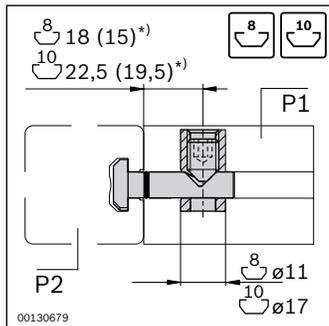
Quick connector: 8/10 mm slot, 0°



- ▶ For the right-angled connecting of two profiles
- ▶ Excellent accessibility for tools during mounting
- ▶ O-ring for fixing allows overhead assembly
- ▶ Quick connectors can be pivoted into the profile slot at the mounting location
- ▶ Profile finishing:
Blind hole DB11, DB17 or
Through-hole D11, D17
- ▶ Note differing drilling intervals and load-bearing capacities when using with radial compensation

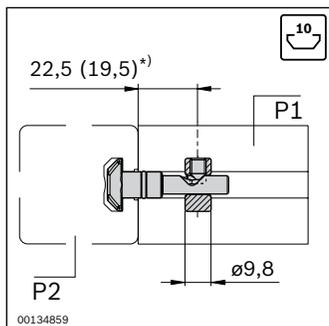
Accessories:

- ▶ Anti-torsion element
- ▶ Radial compensation
- ▶ Drilling jig
- ▶ Cover cap



Slot	F_{max}	M_{max}
8 / 8	500 N	40 Nm
8 / 10	2000 N	70 Nm
10 / 10	4000 N	140 Nm

*) With the use of a radial compensation



Slot	F_{max}	M_{max}
10 / 10	800 N	50 Nm

*) With the use of a radial compensation

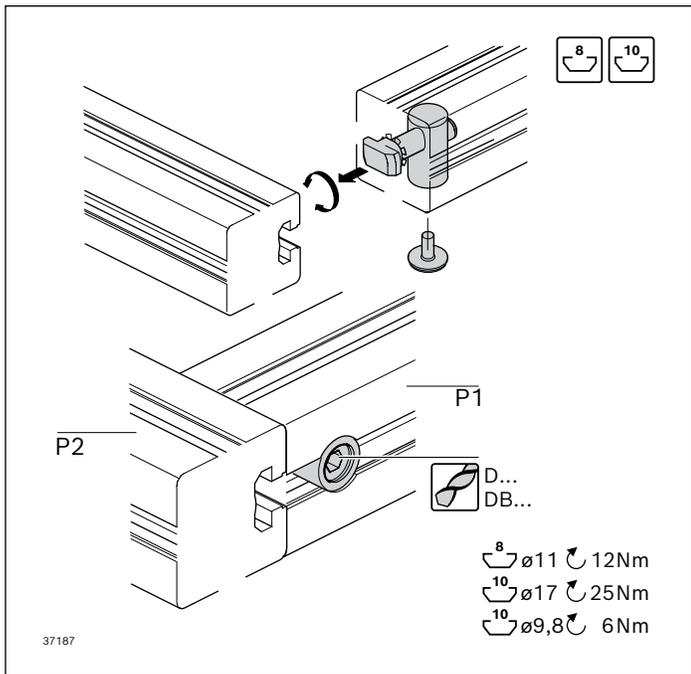
Quick connector 0°	P1 / P2	D	ESD	No.
		(mm)		
Steel; zinc-plated	8 / 8	11	⚠	10 3 842 535 459
	8 / 10	11	⚠	10 3 842 535 464
	10 / 10	17	⚠	10 3 842 535 458
Steel; stainless	8 / 8	11	⚠	10 3 842 548 934
	8 / 10	11	⚠	10 3 842 548 935
	10 / 10	17	⚠	10 3 842 548 936

- ▶ Quick connector 9.8 with smaller connector sleeve
- ▶ The hole for the connector sleeve does not make contact with the slot flanks. This permits a visually attractive connection; the slot can be completely closed with the cover profile

Quick connector 0°, connector sleeve D = 9.8	P1 / P2	D	ESD	No.
		(mm)		
Steel; zinc-plated	10 / 10	9.8 ¹⁾	⚠	10 3 842 541 412

¹⁾ No standard hole in modular dimensions 40, 50 and 60
Target distance from profile end: 22.5 mm

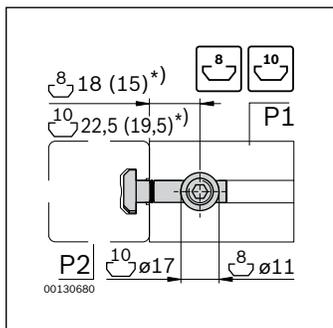
Quick connector: 8/10 mm slot, 90 – Cover cap



- ▶ Tie rod head rotated at a 90° angle to the connector sleeve
- ▶ Profile finishing:
Blind hole DB11, DB17 or
Through-hole D11, D17

Accessories:

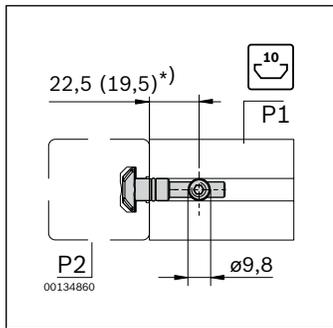
- ▶ Anti-torsion element
- ▶ Radial compensation
- ▶ Drilling jig
- ▶ Cover cap



Slot	F_{max}	M_{max}
8 / 8	500 N	40 Nm
10 / 10	4000 N	140 Nm

*) With the use of a radial compensation

Quick connector 90°	P1 / P2 (mm)	D (mm)	ESD	No.
Steel; zinc-plated	8 / 8	11	⚠	10 3 842 535 465
	10 / 10	17	⚠	10 3 842 535 466
Steel; stainless	8 / 8	11	⚠	10 3 842 548 937
	10 / 10	17	⚠	10 3 842 548 938

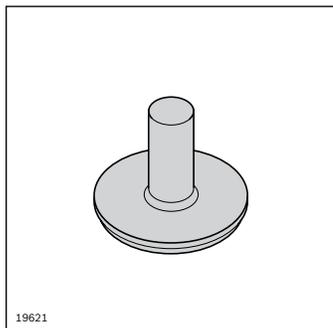


Slot	F_{max}	M_{max}
10 / 10	800 N	50 Nm

*) With the use of a radial compensation

Quick connector 90°, connector sleeve D = 9.8	P1 / P2 (mm)	D (mm)	ESD	No.
Steel; zinc-plated	10 / 10	9.8 ¹⁾	⚠	10 3 842 541 410

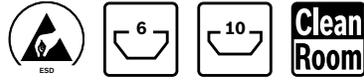
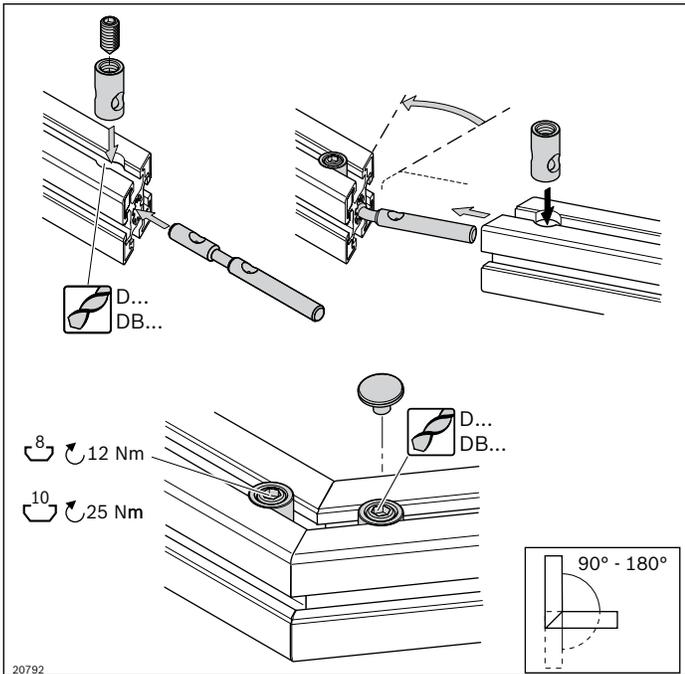
¹⁾ No standard hole in modular dimensions 40, 50 and 60
Target distance from profile end: 22.5 mm



Cover cap	D (mm)	No.
	11	100 3 842 551 040
	17	100 3 842 551 042

Material: PE; signal gray RAL 7004

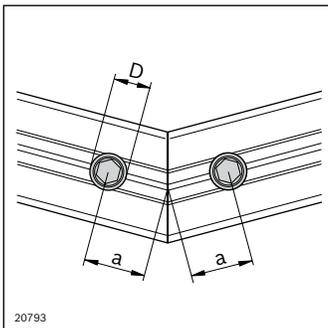
Quick connector: bendable – end-to-end



- ▶ For end-to-end connecting of two profiles with equal cross-sections and at any angle, e.g. for frames
- ▶ Profile finishing:
 - Blind hole DB11, DB17 or through-hole D11, D17
 - Miter cut

Accessories:

- ▶ Drilling jig
- ▶ Cover cap

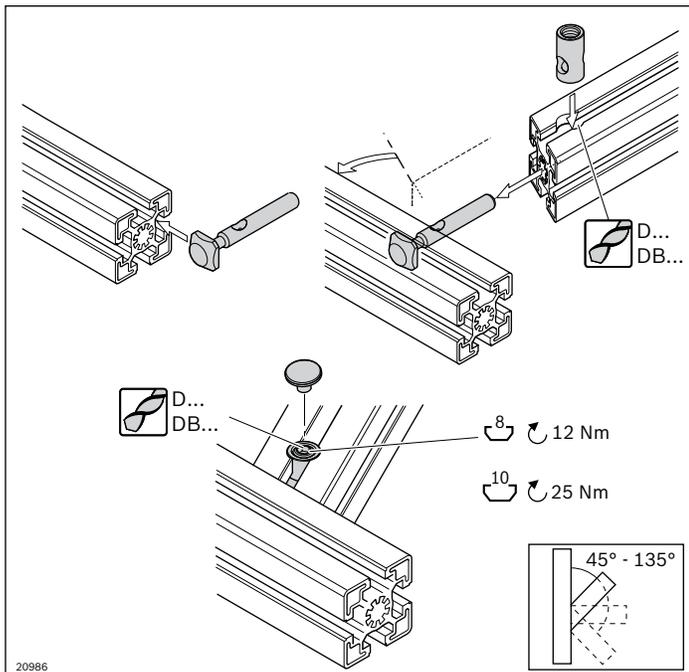


Profile	M_{max}
30x30	24 Nm
40x40L	100 Nm
45x45L	110 Nm
45x45	145 Nm
50x50L	160 Nm

Quick connector, bendable	P1 / P2	a (mm)	D (mm)	ESD	No.
End-to-end	8 / 8	18	11	ESD	3 842 535 630
	10 / 10	22.5	17	ESD	3 842 535 634

Material: Tie rod: Steel; stainless
Socket: Steel; zinc-plated

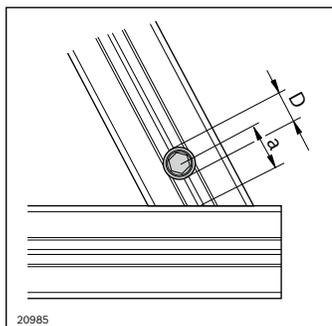
Quick connector: bendable – end-to-slot



- ▶ For end-to-slot connecting of two profiles at any angle, e.g. for framework constructions
- ▶ Profile finishing:
 - Blind hole DB11, DB17 or through-hole D11, D17
 - Miter cut

Accessories:

- ▶ Drilling jig
- ▶ Cover cap

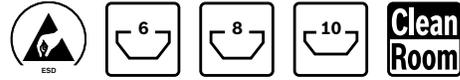
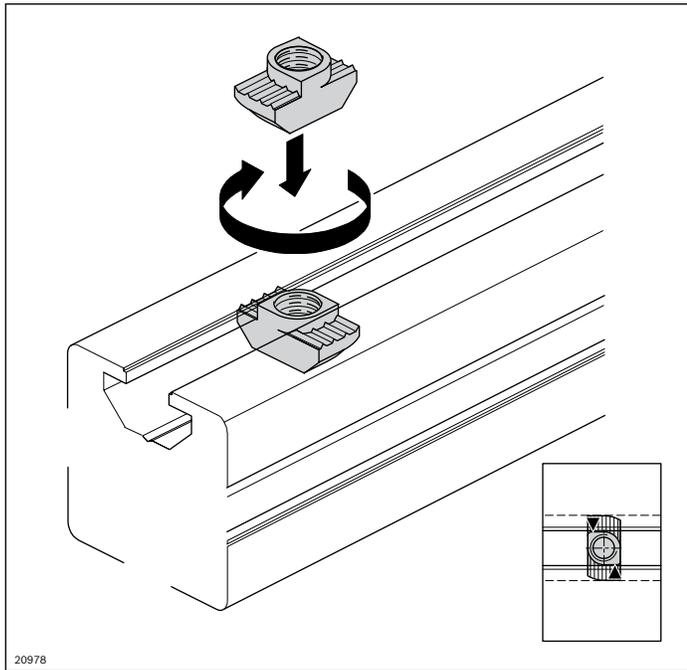


Quick connector, bendable	P1 / P2	a (mm)	D (mm)	ESD	No.
End-to-slot	8 / 8	18	11	⚠	3 842 535 629
	10 / 10	22.5	17	⚠	3 842 535 635

Material: Tie rod: Steel; stainless
Socket: Steel; zinc-plated

Profile	F_{max}	M_{max}	F_{max}	M_{max}
30x30	1100 N	35 Nm	650 N	40 Nm
40x40L	1500 N	110 Nm	1000 N	80 Nm
45x45L	1500 N	120 Nm	1000 N	95 Nm
45x45	1500 N	140 Nm	1100 N	180 Nm
50x50L	1500 N	150 Nm	1100 N	180 Nm

T-nuts

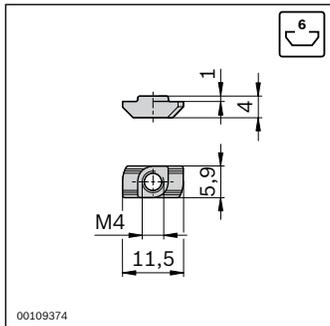


- ▶ Standard element for a secure and conductive connection
- ▶ End stop for correct positioning in the profile slot
- ▶ Stainless steel T-nut, e.g. for outdoor or cleanroom applications
- Profile finishing: Not required

Accessories:

- ▶ Insulating cap

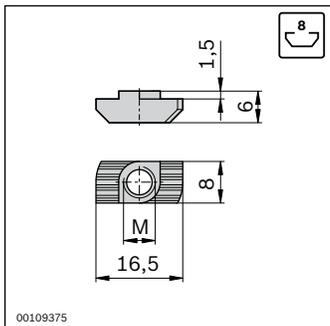
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00109374

Slot	
6	1700 N

T-nut, 6 mm slot	Slot	M	ESD	No.
Steel; zinc-plated	6	M4		100 3 842 523 135
Stainless steel	6	M4		100 3 842 536 599

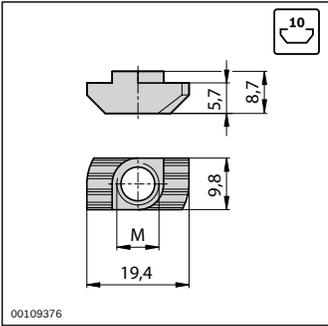


00109375

Slot	
8 (M6)	4000 N

T-nut, 8 mm slot	Slot	M	ESD	No.
Steel; zinc-plated	8	M4		100 3 842 501 751
		M5*		100 3 842 501 752
		M6*		100 3 842 501 753
		8-32 U.N.C.		1 8 981 016 122
		10-32 U.N.F.		1 8 981 016 123
	1/4"x20 U.N.C.		1 8 981 016 124	
Stainless steel	8	M4		100 3 842 536 600
		M5		100 3 842 536 601
		M6		100 3 842 536 602

* Suitable for standard screws. **Attention:** T-nuts have driving torque for safe turning in the base of the slot.

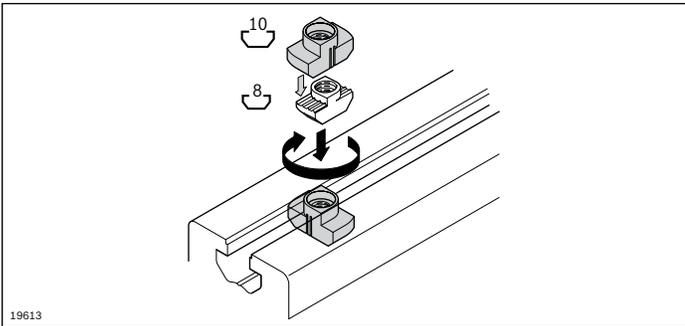


Slot	
10 (M8)	6000 ... 18000 N ¹⁾

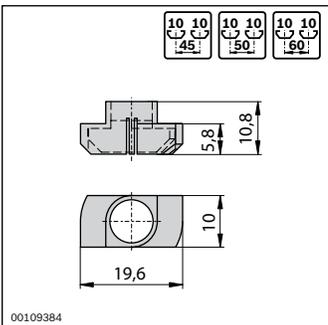
¹⁾ Depending on profile

T-nut, 10 mm slot	Slot	M	ESD	No.
Steel; zinc-plated	10	M4		100 3 842 530 281
		M5*		100 3 842 530 283
		M6*		100 3 842 530 285
		M8*		100 3 842 530 287
		8-32 U.N.C.		1 8 981 021 321
		10-32 U.N.F.		1 8 981 021 322
		1/4"x20 U.N.C.		1 8 981 021 323
		5/16"x18 U.N.C.		1 8 981 021 324
Stainless steel	10	M4		100 3 842 536 606
		M5		100 3 842 536 605
		M6		100 3 842 536 604
		M8		100 3 842 536 603

* Suitable for standard screws. **Attention:** T-nuts have driving torque for safe turning in the base of the slot.



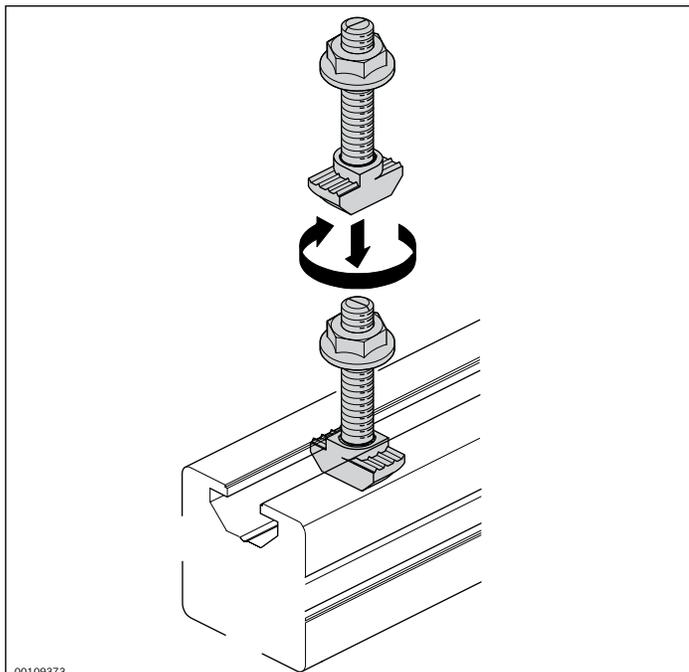
- ▶ Insulating cap for decoupling directly grounded components; for use with T-nuts for 8 mm slots in a 10 mm slot



Insulating cap for T-nut, 8 mm slot	Slot	No.
	10	10 3 842 524 012

Material: PA; high-strength, black

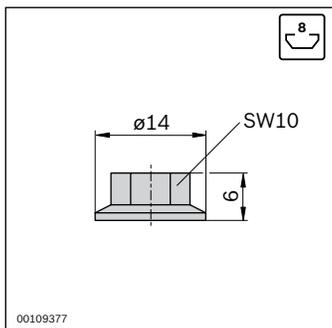
Flange nut – T-bolt



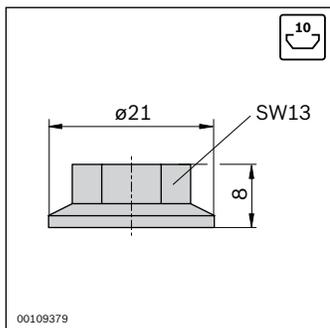
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- ▶ Secure and conductive connection
- ▶ Notch at bolt end as marker for correct position recognition
 - Profile finishing: Not required



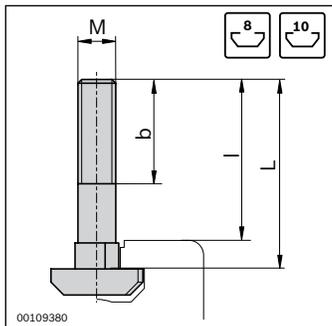
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00109379

Flange nut	Slot	M	ESD	No.
	8	M6	⚡	100 3 842 523 925
		1/4-20	⚡	1 8 981 021 465
	10	M8	⚡	100 3 842 345 081
		5/16-18	⚡	1 8 981 021 464

Material: Steel; zinc-plated



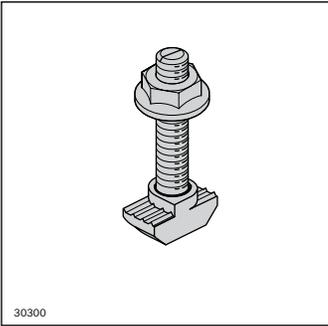
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Slot	F_{max}
8	4000 N
10	6000 ... 18000 N ¹⁾

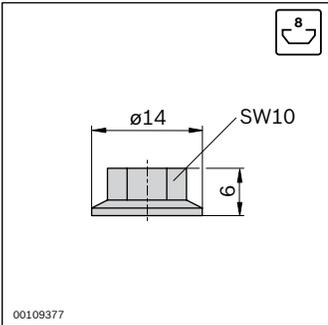
¹⁾ Depending on profile

T-bolt	Slot	MxL	b (mm)	l (mm)	ESD	No.
	8	M6x16	10	14	⚡	100 3 842 523 920
		M6x20	14	18	⚡	100 3 842 523 921
		M6x25	18	23	⚡	100 3 842 523 922
	10	M8x20	14	14	⚡	100 3 842 528 715
		M8x25	19	19	⚡	100 3 842 528 718
		M8x30	24	24	⚡	100 3 842 528 721
		M8x40	22	34	⚡	100 3 842 528 724
		M8x50	22	44	⚡	100 3 842 528 727
		M8x60	22	54	⚡	100 3 842 528 730

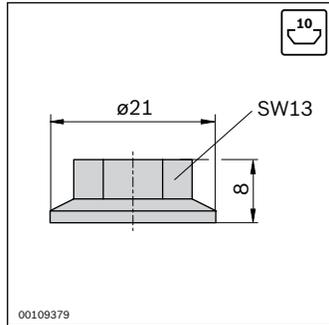
Material: Steel; zinc-plated



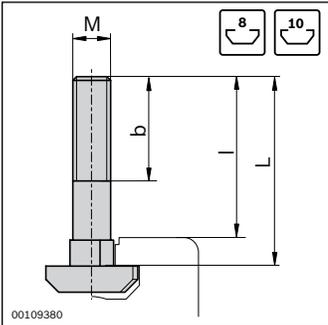
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00109380

T-bolt fastening kits

► Include T-bolt and flange nut

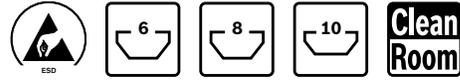
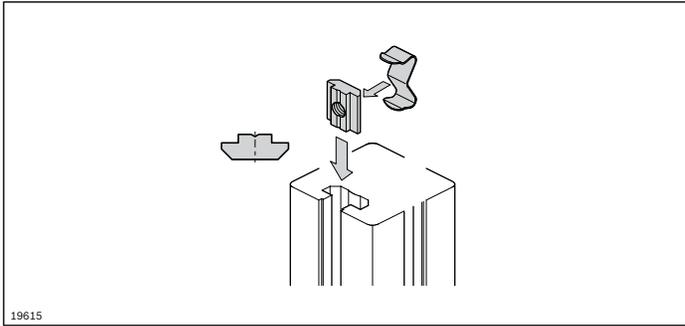
Slot	MxL	b (mm)	l (mm)	ESD	No.
8	M6x16	10	14	⚠	1 8 981 019 577
	M6x20	14	18	⚠	1 8 981 019 578
	M6x25	18	23	⚠	1 8 981 019 579
10	M8x16	14	14	⚠	1 8 981 021 342
	M8x21	19	19	⚠	1 8 981 021 343
	M8x26	24	24	⚠	1 8 981 021 344
	M8x36	22	34	⚠	1 8 981 021 345
	M8x46	22	44	⚠	1 8 981 021 346
	M8x56	22	54	⚠	1 8 981 021 347
	5/16-18x3/4	13	16	⚠	1 8 981 021 554
	5/16-18x1	16	19	⚠	1 8 981 021 555

Material: Steel, zinc-plated

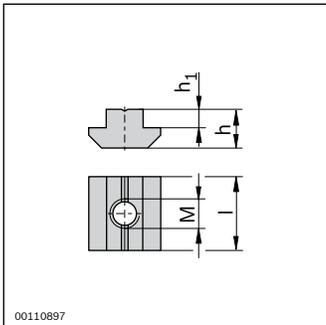
Slot	
8	4000 N
10	6000 ... 18000 N ¹⁾

¹⁾ Depending on profile

Sliding block: sliding block profile



- ▶ Sliding block for reliable absorption of high forces
- ▶ Sliding block profile for self-assembly of individual fastening elements
- ▶ Profile finishing: Not required
 - The spring assists with the assembly and positioning of the sliding block and swivel-in sliding block

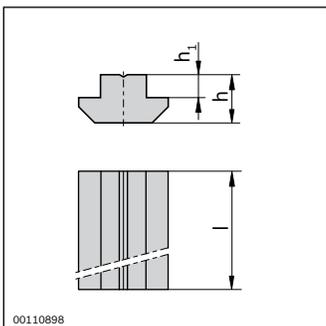


Slot	
6 (M5)	3000 N
8 (M8)	6000 N
10 (M8)	8000 ... 24000 N ¹⁾

¹⁾ Depending on profile

Sliding block	Slot	M	h (mm)	h ₁ (mm)	l (mm)	ESD	No.	
Steel; zinc-plated	6	M4	4.0	1.0	12		100 3 842 542 692	
		M5	4.0	1.0	12		100 3 842 542 693	
	8	M4	6.0	2.0	16	100	3 842 514 928	
		M5	6.0	2.0	16	100	3 842 514 929	
		M6	6.0	2.0	16	100	3 842 514 930	
		M8	6.0	2.0	16	100	3 842 514 931	
	10	M5	10.5	5.0	20	100	3 842 528 741	
		M6	10.5	5.0	20	100	3 842 528 738	
		M8	10.5	5.0	20	100	3 842 528 735	
	Steel; stainless	6	M4	4.0	1.0	12		100 3 842 523 140
			M5	4.0	1.0	12		100 3 842 523 142
		8	M4	6.0	2.0	16		100 3 842 547 817
M5			6.0	2.0	16		100 3 842 547 816	
M6			6.0	2.0	16		100 3 842 547 815	
M8			6.0	2.0	16		100 3 842 547 814	
10		M5	10.5	5.0	20		100 3 842 547 813	
		M6	10.5	5.0	20		100 3 842 547 812	
		M8	10.5	5.0	20		100 3 842 547 811	

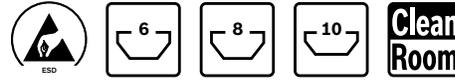
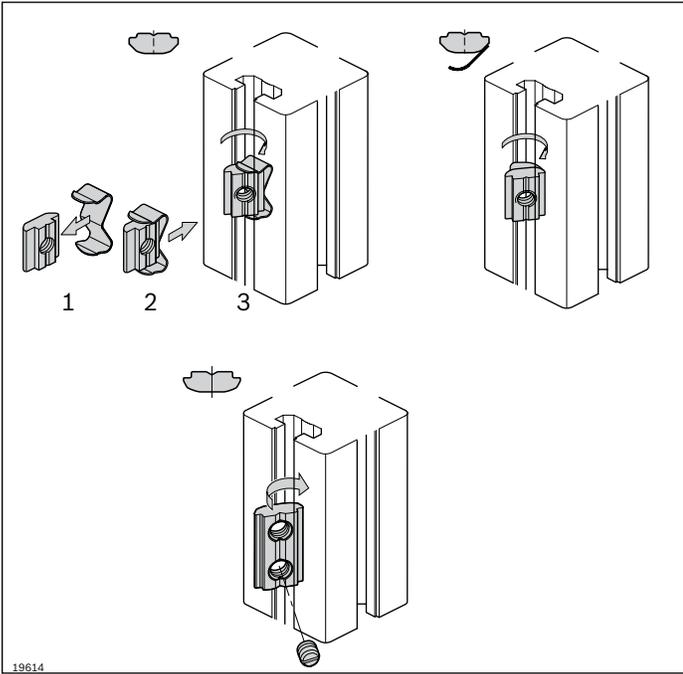
Accessories: Spring



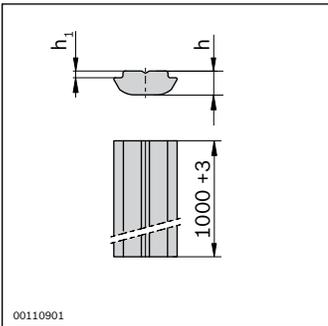
Sliding block profile	Slot	h (mm)	h ₁ (mm)	l (mm)	No.
Steel; zinc-plated	6	4.0	1.0	1000	3 842 542 694
	8	6.0	2.0	1000	3 842 510 078
	10	10.5	5.0	1000	3 842 528 744
Steel; stainless	6	4.0	1.0	1000	3 842 523 438

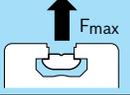
Accessories: Spring

Swivel-in sliding block: Swivel-in sliding block profile – Spring

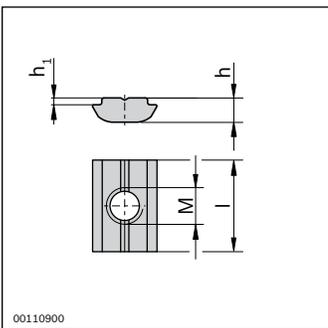


- ▶ Swivel-in sliding block profile for self-assembly of individual fastening elements
- ▶ The swivel-in sliding block can be inserted directly at the assembly point for easy assembly
- ▶ The swivel-in sliding block with spring can be inserted directly at the assembly point and fixed in position thanks to attached springs
- ▶ Swivel-in sliding block with headless setscrews for shake-proof fixing in all positions
 - Profile finishing: Not required



Slot	
8 (M8)	2200 N
10 (M8)	8000 ... 18000 N ¹⁾

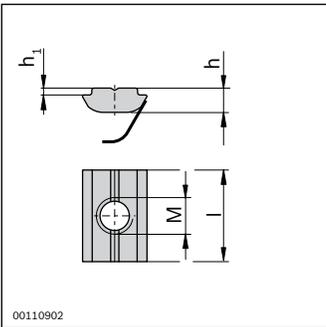
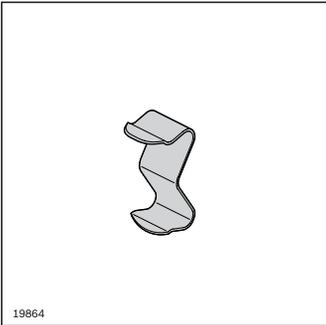
¹⁾ Depending on profile

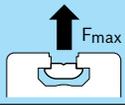


Swivel-in sliding block profile	Slot	h (mm)	h ₁ (mm)	l (mm)	No.
Steel; zinc-plated	8	4.8	1.0	1000	3 842 529 327
	10	5.3	1.5	1000	3 842 529 325

Swivel-in sliding block	Slot	M	h (mm)	h ₁ (mm)	l (mm)	ESD	No.
Steel; zinc-plated	8	M5	4.8	1.0	16	100	3 842 529 319
		M6	4.8	1.0	16	100	3 842 529 320
		M8	4.8	1.0	16	100	3 842 529 321
	10	M6	5.3	1.5	20	100	3 842 529 323
		M8	5.3	1.5	20	100	3 842 529 324
		1/4-20	5.3	1.5	20	1	8 981 021 441
		5/16-18	5.3	1.5	20	1	8 981 021 440
	10-32	5.3	1.5	20	1	8 981 021 442	
Steel; stainless	6	M3	3.0	0.9	12		100 3 842 547 826
		M4	3.0	0.9	12		100 3 842 536 669
		M5	3.0	0.9	12		100 3 842 547 825
	8	M6	4.8	1.0	16		100 3 842 530 321
	10	M8	5.3	1.5	20		100 3 842 530 316

Accessories: Spring



Slot	
8 (M8)	2200 N
10 (M8)	8000 ... 18000 N ¹⁾

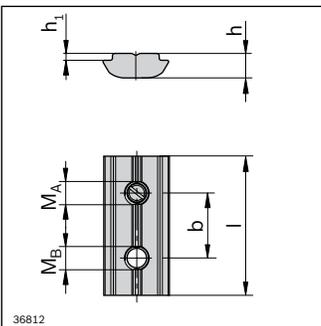
¹⁾ Depending on profile

- ▶ The spring assists with the assembly and positioning of the sliding block and swivel-in sliding block

Spring	Slot		No.
Spring steel; stainless	6	100	3 842 523 145
	8	100	3 842 516 685
	10	100	3 842 516 669

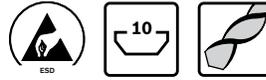
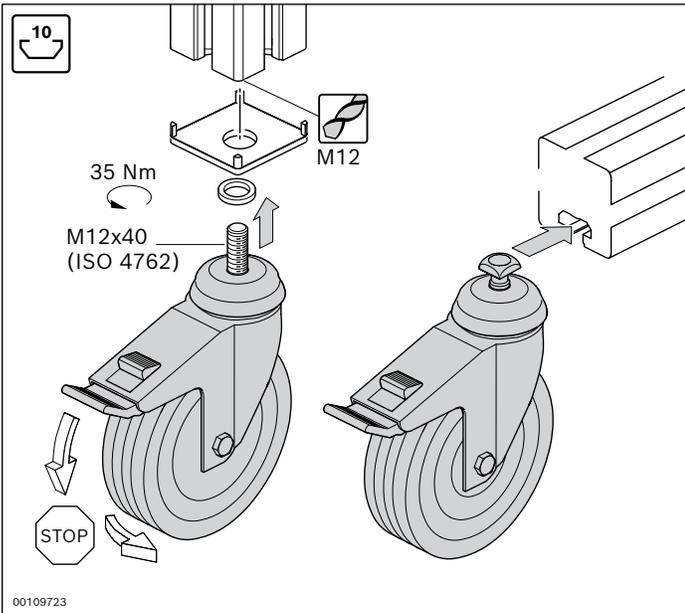
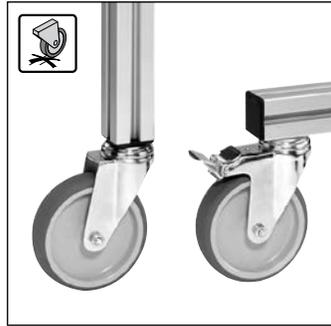
Swivel-in sliding block with spring	Slot	M	h (mm)	h ₁ (mm)	l (mm)	ESD 	No.
Steel; zinc-plated	8	M4	4.8	1.0	16		100 3 842 529 294
		M5	4.8	1.0	16		100 3 842 529 295
		M6	4.8	1.0	16		100 3 842 529 296
		M8	4.8	1.0	16		100 3 842 529 297
Steel; stainless	10	M4	5.3	1.5	20		100 3 842 541 393
		M5	5.3	1.5	20		100 3 842 529 298
		M6	5.3	1.5	20		100 3 842 529 299
		M8	5.3	1.5	20		100 3 842 529 300
Steel; stainless	8	M4	4.8	1.0	16		100 3 842 547 824
		M5	4.8	1.0	16		100 3 842 547 823
		M6	4.8	1.0	16		100 3 842 547 822
		M8	4.8	1.0	16		100 3 842 547 821
Steel; stainless	10	M5	5.3	1.5	20		100 3 842 547 808
		M6	5.3	1.5	20		100 3 842 547 807
		M8	5.3	1.5	20		100 3 842 547 806

Material: Spring: Spring steel; stainless



Swivel-in sliding block, with Headless setscrew (M _A)	Slot	M _A ; M _B	b (mm)	h (mm)	h ₁ (mm)	l (mm)		No.
Steel; stainless	6	M4; M4	8	3.0	0.9	15	100	3 842 536 673
Steel; zinc-plated	8	M5; M4	12	4.8	1.0	24	100	3 842 557 259
		M5; M5	12	4.8	1.0	24	100	3 842 536 675
		M5; M6	12	4.8	1.0	24	100	3 842 557 260
Steel; stainless	10	M5; M5	14	5.3	1.5	30	100	3 842 536 676
		M5; M6	14	5.3	1.5	30	100	3 842 557 261
		M5; M8	14	5.3	1.5	30	100	3 842 557 262

Wheels



- ▶ Impressive versatility
- ▶ Wheels with excellent running properties
- ▶ Available as a castor wheel with lock, a castor wheel, and a trestle roller



Especially gentle on floors



Resistant to oil, suitable for workshop floors



Suitable for use in clean rooms.
Conductive material version in accordance with DIN EN 61340-5-1; conduction resistance 10^3 to $10^8 \Omega$



Rubber running surface made of solid rubber with good deformation elasticity. No permanent flattening of the wheel due to it traveling over edges or not being moved for long periods

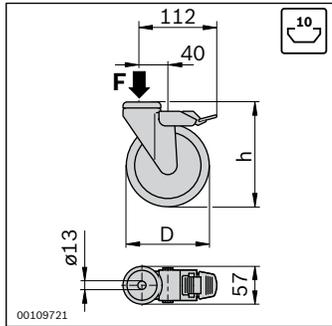


Suitable for ESD-sensitive areas.
Conductive material version in accordance with DIN EN 61340-5-1; conduction resistance $\leq 10^6 \Omega$

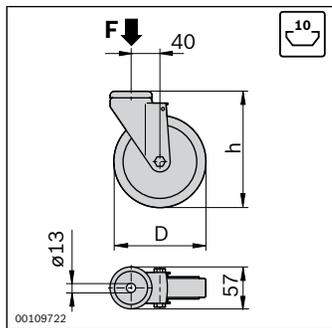
- ▶ Mounting of all wheel in the profile slot or central hole (accessories required)
- ▶ Profile finishing: Thread cutting M12 for assembly in central hole

Required accessories:

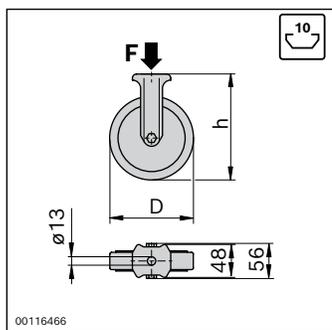
- ▶ Screw M12x40 (ISO 4762) for mounting in central hole (\cup 35 Nm)
- ▶ Bearing ring if cover cap with hole is used (p. 2)



FS1
 M12X30
 DIN 985
 M12



FS1
 M12X30
 DIN 985
 M12



FS1
 M12X30
 DIN 985
 M12

► Castor wheel with lock: Lock prevents the wheel from rolling or turning

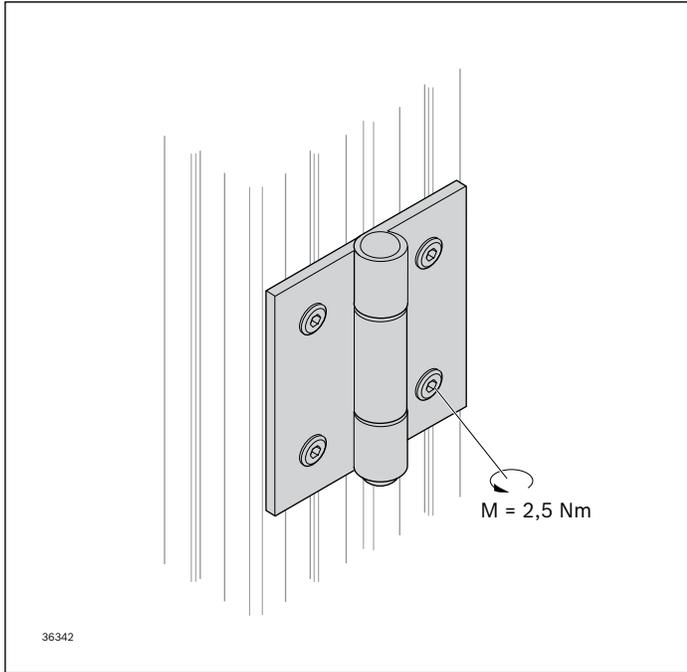
Castor wheel with lock	F (N)	D (mm)	h (mm)	ESD	No.	FS
	900	80	108		3 842 541 226	FS1
	1100	125	158		3 842 541 228	FS1
	900	80	108		3 842 541 230	FS1
	1100	125	158		3 842 541 232	FS1
	1100	125	158		3 842 515 367	FS1
	1000	125	158		3 842 524 499	FS1
	600	80	108		3 842 547 836	FS1
	800	125	158		3 842 547 838	FS1

Castor wheel	F (N)	D (mm)	h (mm)	ESD	No.	FS
	900	80	108		3 842 541 234	FS1
	1100	125	158		3 842 541 236	FS1
	900	80	108		3 842 541 238	FS1
	1100	125	158		3 842 541 240	FS1
	1100	125	158		3 842 515 366	FS1
	1000	125	158		3 842 524 500	FS1
	600	80	108		3 842 547 835	FS1
	800	125	158		3 842 547 837	FS1

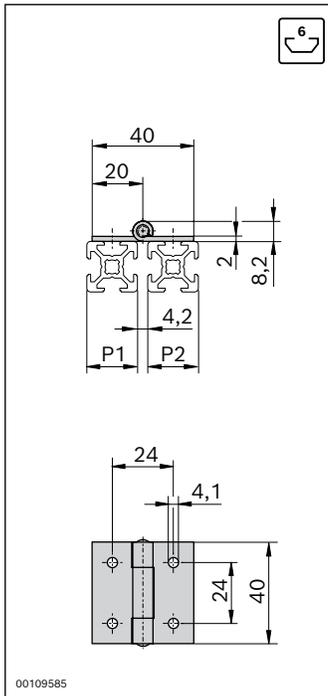
Trestle roller	F (N)	D (mm)	h (mm)	ESD	No.	FS
	900	80	108		3 842 541 242	FS1
	1100	125	158		3 842 541 244	FS1
	600	80	108		3 842 547 839	FS1
	800	125	158		3 842 547 840	FS1

- Material:
- Thermoplastic rubber
 - Reinforced PA
 - Gray PU, housing: Steel, chrome-plated
 - Solid rubber
 - Conductive, conduction resistance $\leq 10^6 \Omega$

Hinge



- ▶ Assembly possible on solid panel elements
- ▶ For small doors and flaps
- ▶ Steel hinge for profiles with 6 mm slot



Slot	F_{max}
6	300 N

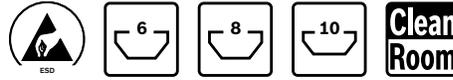
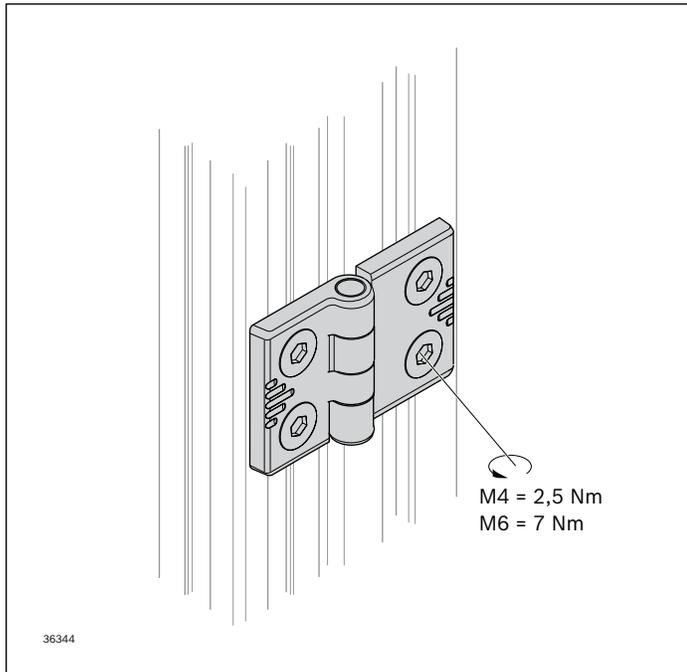
FS1

ISO 7380
M4x6

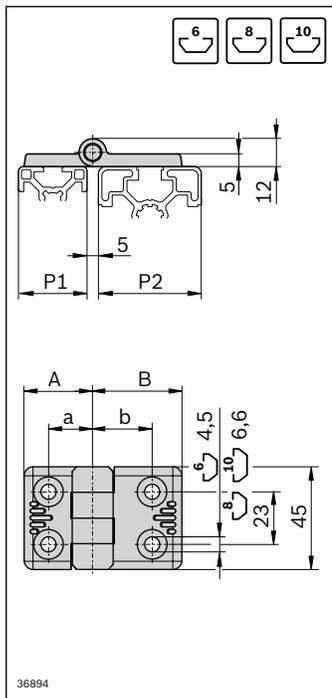
Hinge	P1 (mm)	P2 (mm)	ESD	No.	FS
	20	20		2 3 842 535 684	4xFS1

Material: Steel; stainless
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

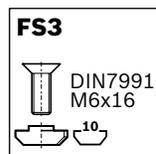
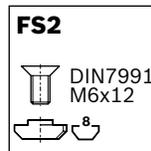
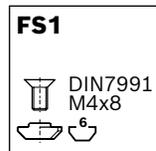
Hinge, aluminum



- ▶ Aluminum hinge for all slot systems
- ▶ Assembly possible on solid panel elements
- ▶ High-quality version
- ▶ Conductive version
- ▶ Suitable for use under cleanroom conditions thanks to wear-resistant guide bushings



Slot	
6	300 N
8	300 N
10	300 N



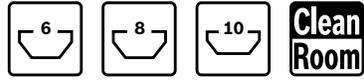
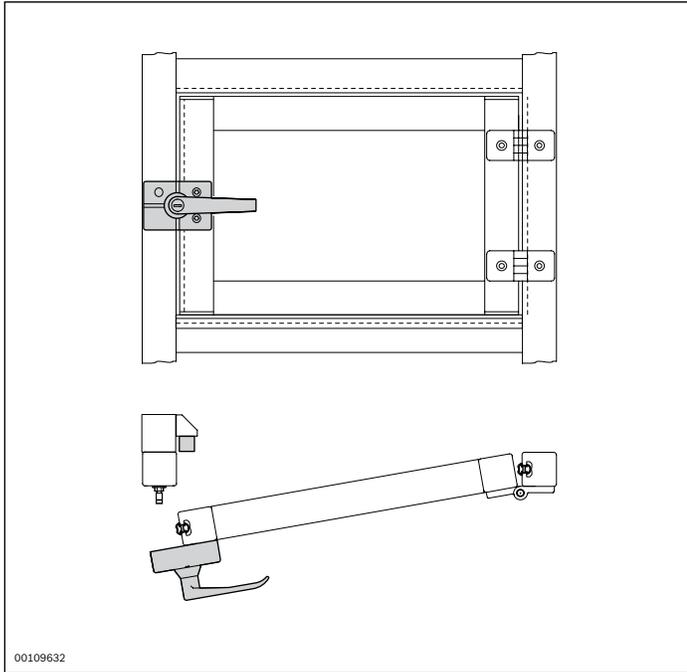
Hinge, aluminum	P1 (mm)	P2 (mm)	ESD	No.	FS
	20	20	⚡	3 842 544 525	4xFS1
	20	30	⚡	3 842 544 526	2xFS1, 2xFS2
	30	30	⚡	3 842 544 527	4xFS2
	30	40	⚡	3 842 544 528	2xFS2, 2xFS3
	30	45	⚡	3 842 544 529	2xFS2, 2xFS3
	40	40	⚡	3 842 544 530	4xFS3
	45	45	⚡	3 842 544 531	4xFS3

Material: Diecast aluminum; nickel-plated
Fastening material: Steel; zinc-plated
Scope of delivery: Incl. fastening material (FS)

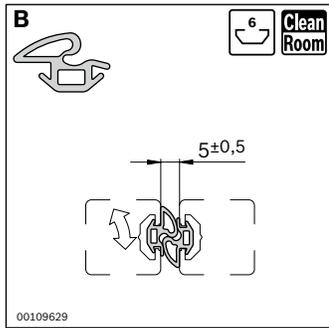
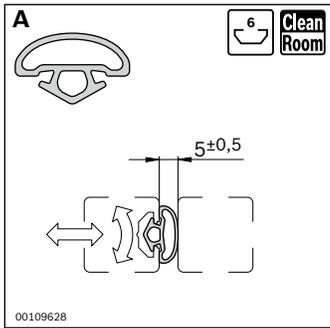
P1/P2 (mm)	A/B (mm)	a/b (mm)
20	20	12.5
30	28	17.5
40	37	22.5
45	40	25.0



Sealing profile



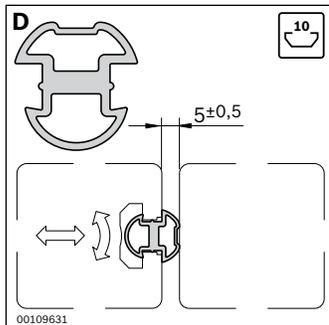
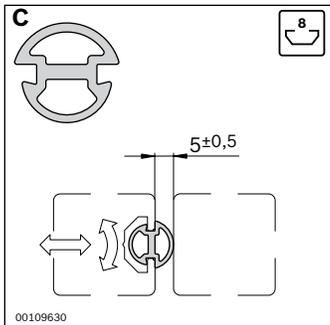
- ▶ For sliding and swing doors
- ▶ Prevents particles from entering or escaping



- ▶ Suitable for use in cleanroom environments
- ▶ Two-piece seal (B) also performs a stop function.

Sealing profile	Slot	L (mm)	No.
A	6	10000	3 842 524 623
B	6	10000	3 842 524 622

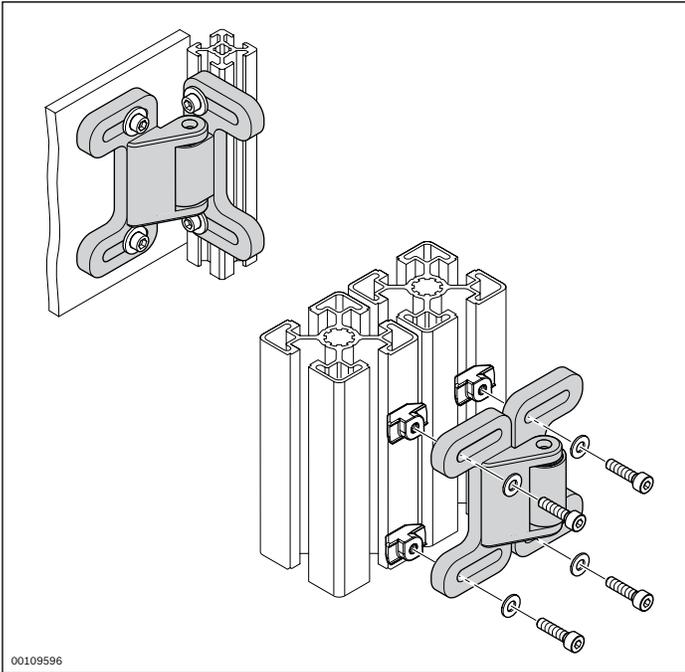
Material: TPE; light gray RAL 7035, hardness: 64° ±5 shore A



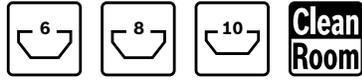
Sealing profile	Slot	L (mm)	No.
C	8	10000	3 842 516 598
D	10	10000	3 842 518 492

Material: NBR; black, hardness 60° shore A

Ball catch



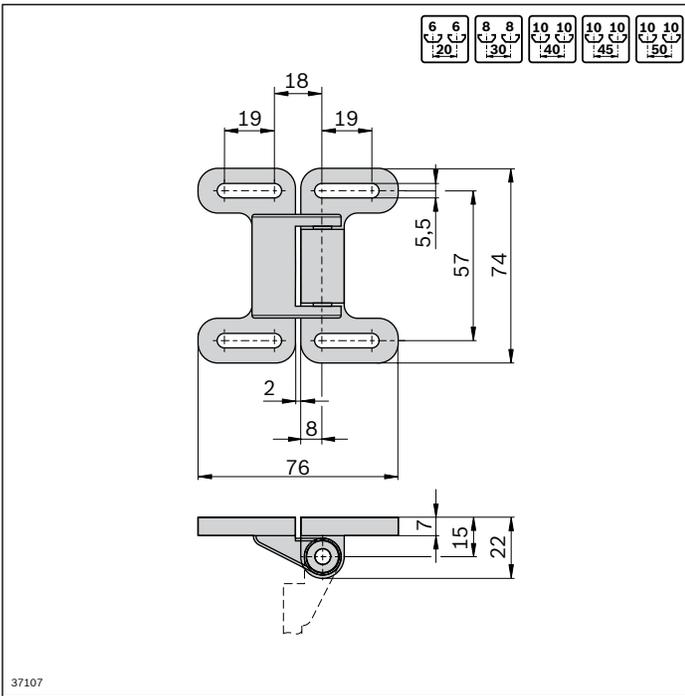
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- ▶ Ball catch for doors and flaps
- ▶ For sliding and swing doors
- ▶ For doors with or without frames
- ▶ Elongated hole to adjust for differing spacing
- ▶ Can be used under cleanroom conditions

Accessories:

- ▶ Cap screw ISO 4762, washer,
- ▶ T-nut



37107

Ball catch	Color	ESD	No.
	Black		10 3 842 524 986

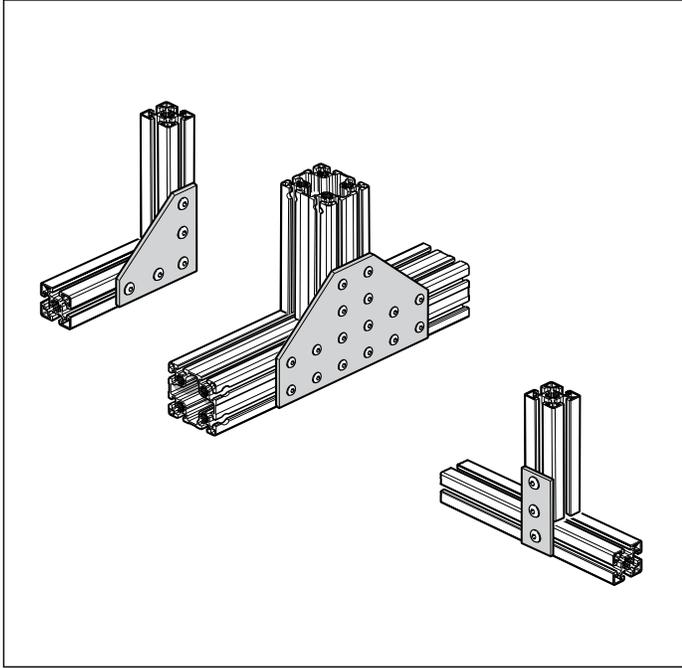
Material: PA

Fraunhofer

**TESTED
DEVICE**

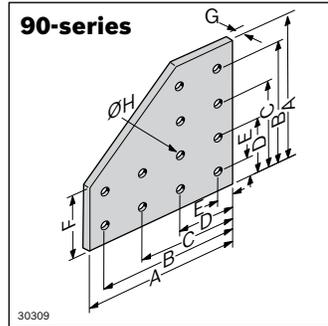
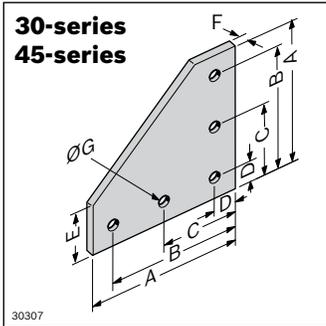
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Report No. BO 9903-158

Joining plates



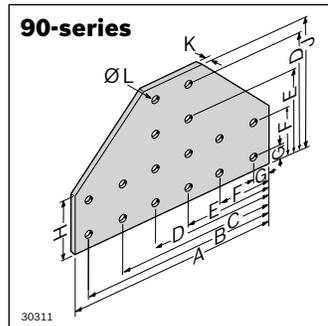
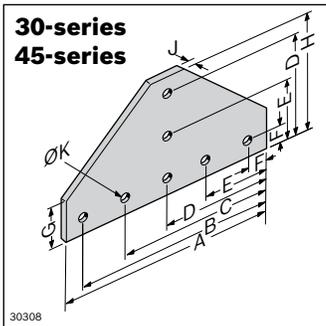
- ▶ Fasten to the outside faces of the profiles, leaving the inner T-slots free for panels or accessories.
- ▶ Can be added to reinforce a structure after initial assembly
- ▶ Three different styles available in a variety of sizes
- ▶ Material: Clear anodized 6063-T6 aluminum

Note: All dimensions in mm



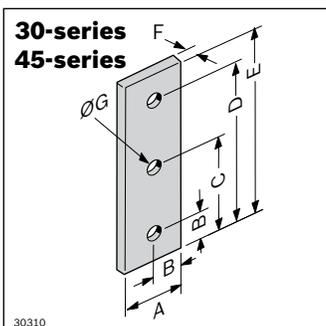
Corner Joining Plates	Profile	Slot	No.
	30-series	8	1 8 981 019 457
	45-series	10	1 8 981 019 448
	90-series	10	1 8 981 019 452

Profile	A	B	C	D	E	F	G	ØG	ØH
30-series	84	72.0	42.0	12.0	24.0	5.0	-	6.2	-
45-series	129	109.5	64.5	19.5	39.0	6.5	-	8.3	-
90-series	174	154.5	109.5	64.5	19.5	84.0	6.5	-	8.3



T-Junction Joining Plates	Profile	Slot	No.
	30-series	8	1 8 981 019 461
	45-series	10	1 8 981 019 450
	90-series	10	1 8 981 019 455

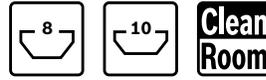
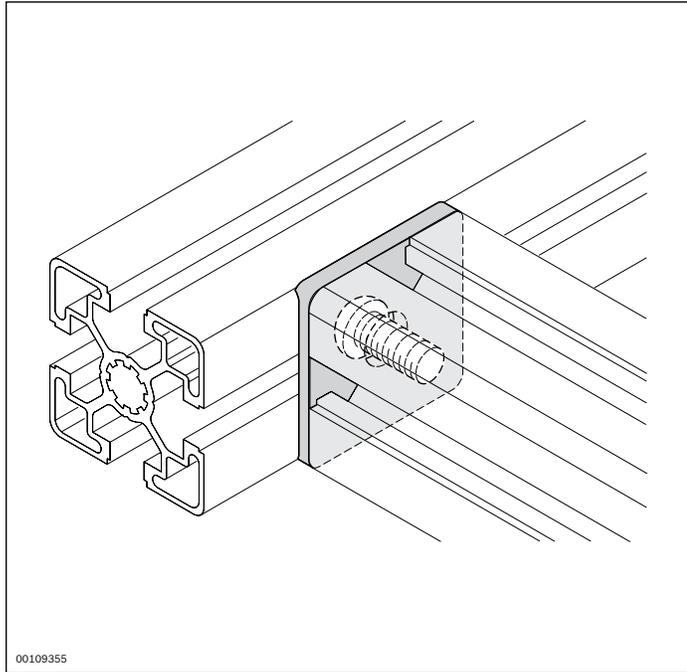
Profile	A	B	C	D	E	F	G	H	J	K	ØK	ØL
30-series	144	132.0	102.0	72.0	42.0	12.0	24.0	84	5.0	-	6.2	-
45-series	219	199.5	154.4	109.5	64.5	19.5	39.0	129	6.5	-	8.3	-
90-series	264	244.5	199.5	154.5	109.5	64.5	19.5	84	174	6.5	-	8.3



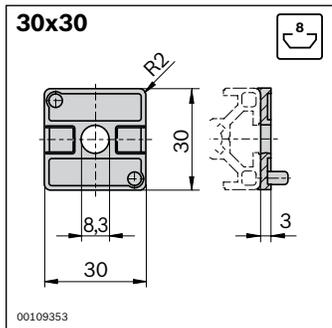
Rectangular Joining Plates	Profile	Slot	No.
	30-series	8	1 8 981 019 458
	45-series	10	1 8 981 019 449

Profile	A	B	C	D	E	F	ØG
30-series	24	12.0	42.0	72.0	84	5.0	6.2
45-series	39	19.5	64.5	109.5	129	6.5	8.3

Radial compensation

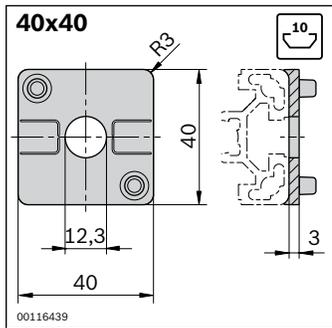


- ▶ For avoiding gaps and sharp edges on T-connections between two profiles using a central bolt or quick connector (note spacing of hole from the end of the profile)
- ▶ Slot segments can be broken out to support panel elements in the slot
- ▶ Important note: The load carrying capacity of the profile connection is reduced when using radial compensation



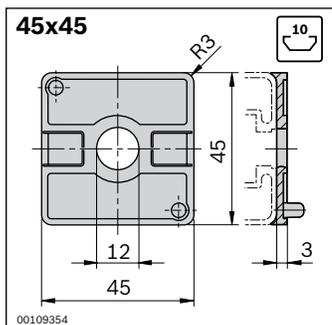
Radial compensation	Slot	No.
30x30	8 10	3 842 551 026

Material: PA; signal gray RAL 7004



Radial compensation	Slot	No.
40x40	10 10	3 842 551 028

Material: PA; signal gray RAL 7004

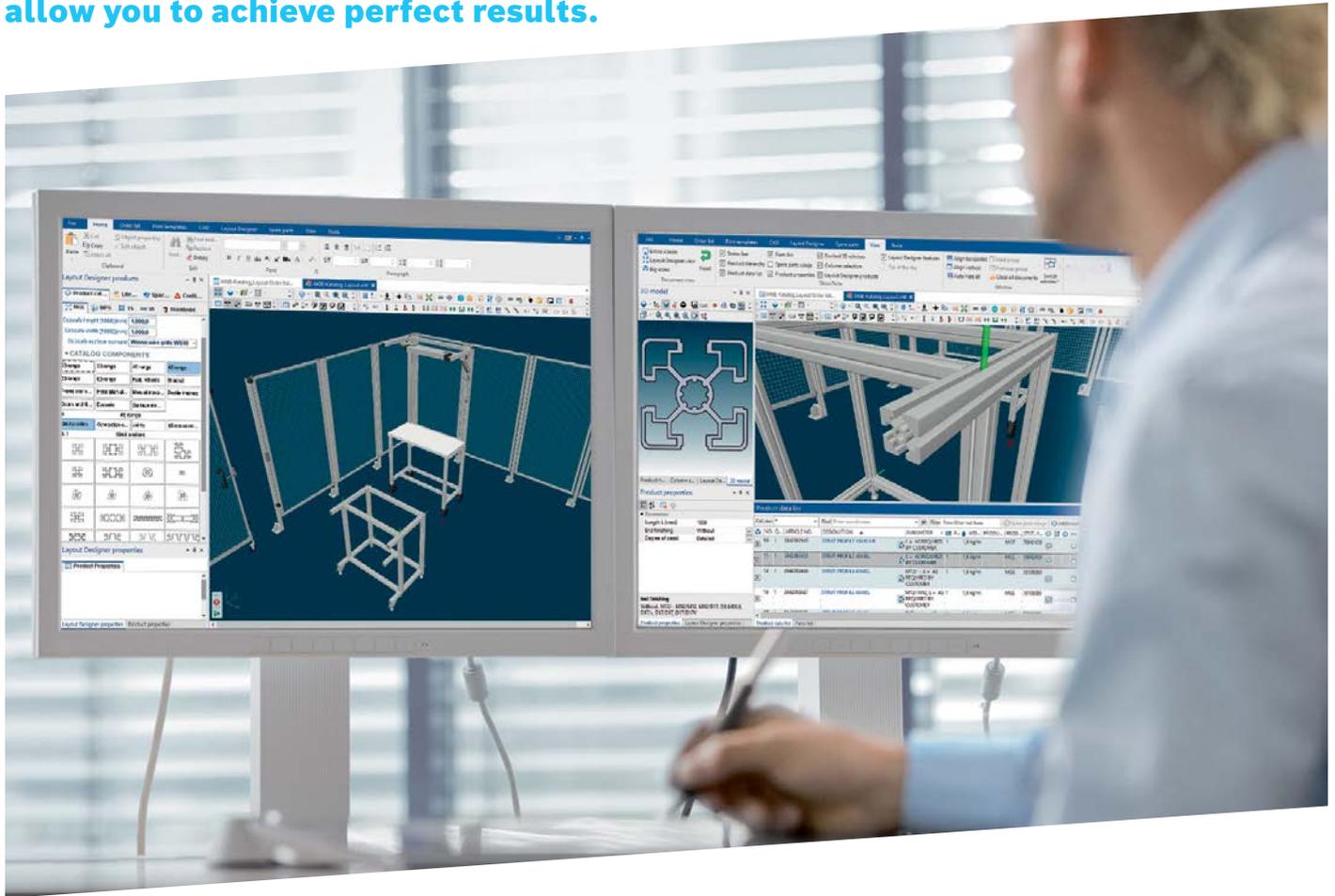


Radial compensation	Slot	No.
45x45	10 10	3 842 551 030

Material: PA; signal gray RAL 7004

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