

Strut profiles



Strut profiles, 6 mm slot,
20 mm modular dimension
(p. 2-13)



Strut profiles, 8 mm slot,
30 mm modular dimension
(p. 2-18)



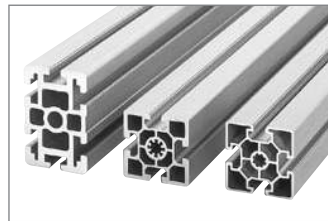
Strut profiles, 10 mm slot,
40 mm modular dimension
(p. 2-26)



Strut profiles, 10 mm slot,
45 mm modular dimension
(p. 2-37)



Strut profiles, 10 mm slot,
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Strut profiles, 10 mm slot,
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Rectangular tube (p. 2-57)
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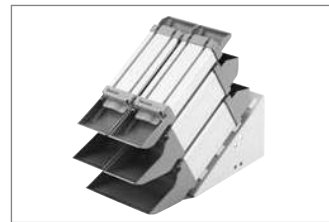
Frame profile 22.5x30 (p. 2-59)
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Angle profile (p. 2-61)
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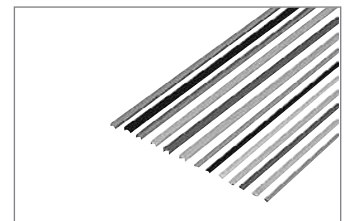
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Strut profiles

With more than 100 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, enable profile connections equipped to handle high static and dynamic loads.

Bosch Rexroth AG offers you 6 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 **

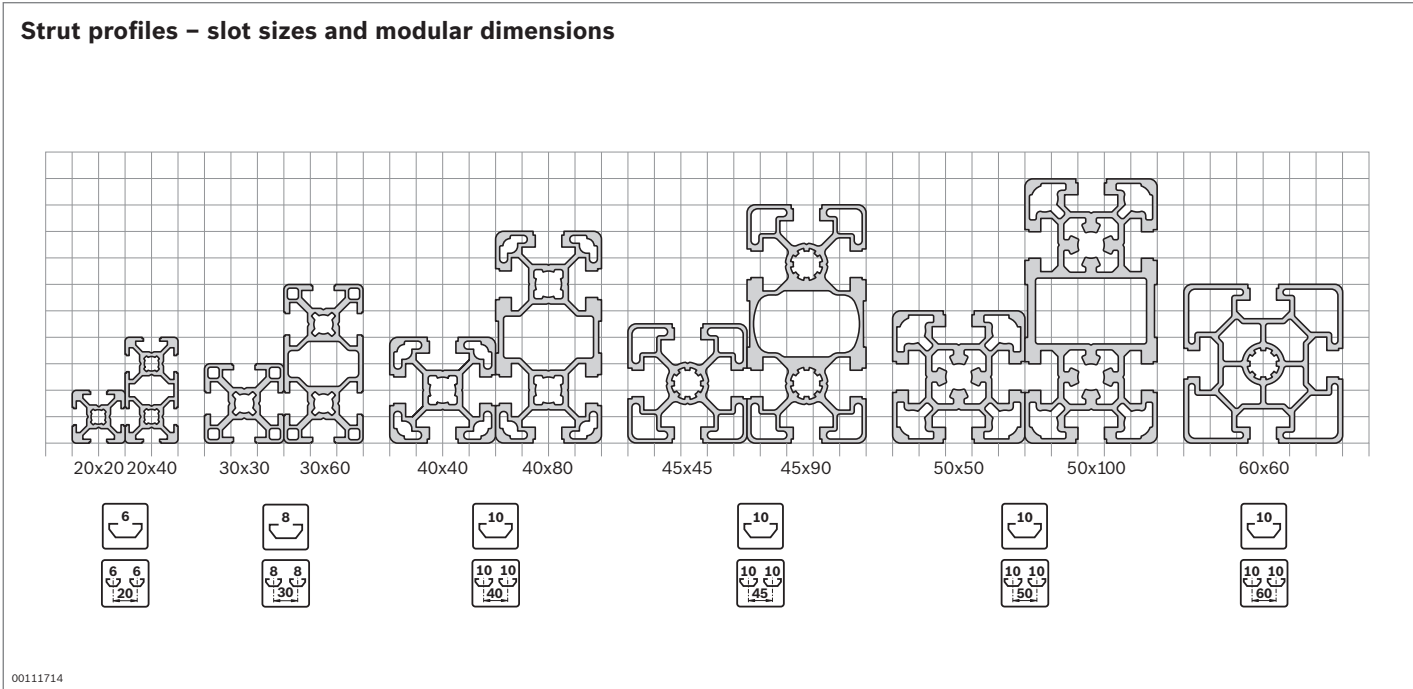
The stated length of the profile packaging units relates to the guaranteed usable length.

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:

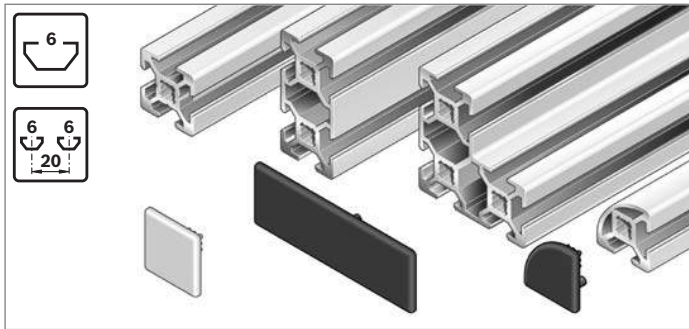
45x45L		L (mm)	No.
	20 pcs		6000 8 981 004 744

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

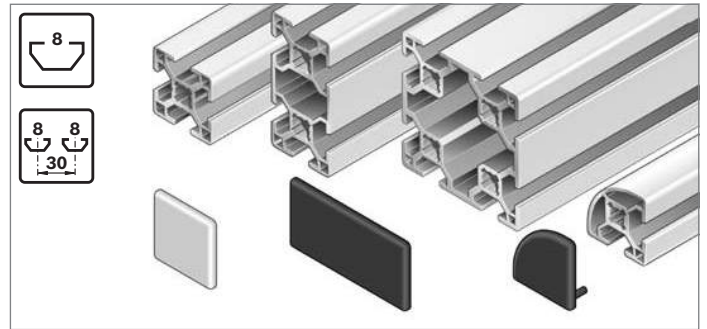


Strut profiles – slot sizes and modular dimensions

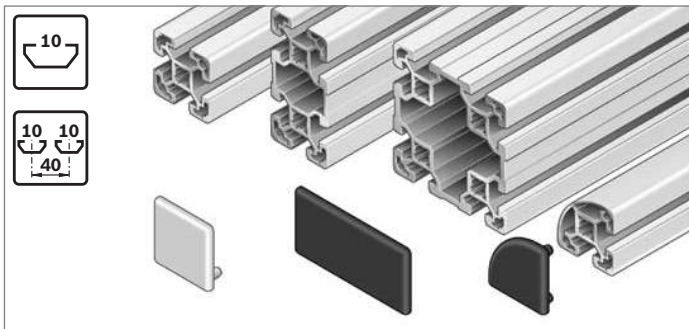
6 mm slot, 20 mm modular dimension



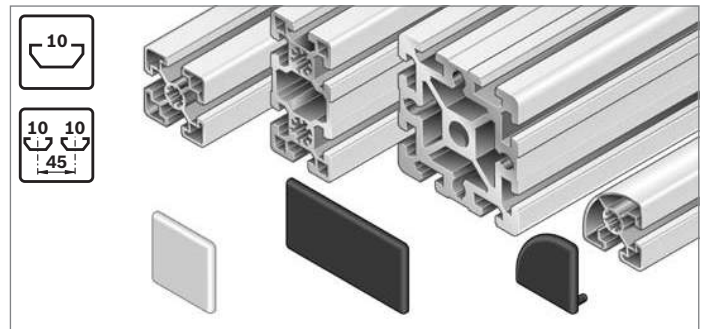
8 mm slot, 30 mm modular dimension



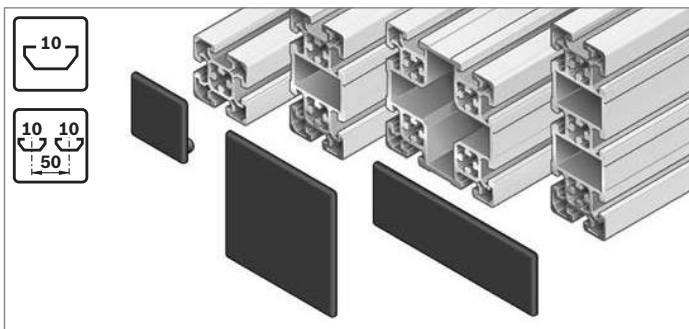
10 mm slot, 40 mm modular dimension



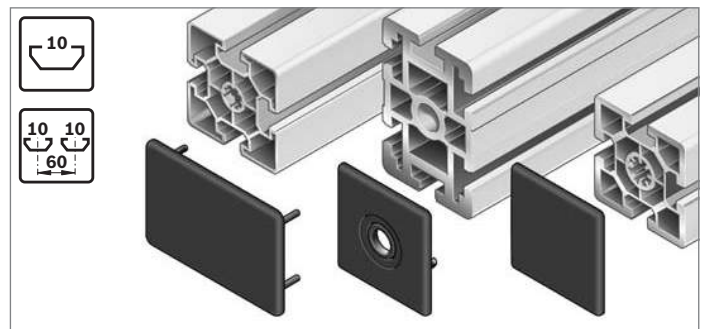
10 mm slot, 45 mm modular dimension



10 mm slot, 50 mm modular dimension



10 mm slot, 60 mm modular dimension



Technical data – profiles

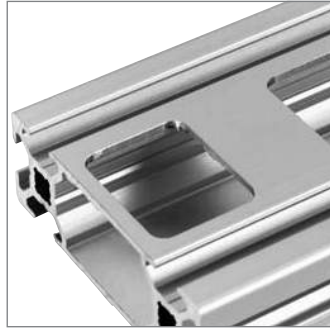
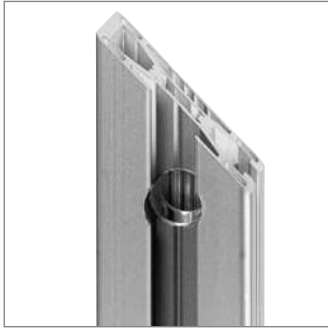
Profile		Slot	Profile surface	Moment of inertia		Section modulus		Torsion index		Mass	Page
			A (cm ² /in ²)	I _x (cm ⁴ /in ⁴)	I _y (cm ⁴ /in ⁴)	W _x (cm ³ /in ³)	W _y (cm ³ /in ³)	I _t (cm ⁴ /in ⁴)	W _t (cm ³ /in ³)	m (kg/m; lbs/ft)	
20x20		6	1.6 0.248	0.7 0.017	0.7 0.017	0.7 0.043	0.7 0.043	0.08 0.002	0.17 0.010	0.4 0.269	2-14
20x20 1N		6	1.9 0.295	0.8 0.019	0.8 0.019	0.8 0.049	0.8 0.049	0.60 0.014	0.67 0.041	0.5 0.336	2-14
20x20 2N		6	1.8 0.279	0.7 0.017	0.8 0.019	0.7 0.043	0.8 0.049	0.31 0.007	0.52 0.032	0.5 0.336	2-14
20x20 2NVS		6	1.8 0.279	0.7 0.017	0.7 0.017	0.7 0.043	0.7 0.043	0.37 0.009	0.52 0.032	0.5 0.336	2-15
20x20 3N		6	1.7 0.264	0.7 0.017	0.8 0.019	0.7 0.043	0.7 0.043	0.19 0.005	0.34 0.021	0.5 0.336	2-15
20x20 R		6	1.6 0.248	0.6 0.014	0.6 0.014	0.5 0.031	0.5 0.031	0.21 0.005	0.39 0.024	0.4 0.269	2-15
20x40		6	2.9 0.450	4.6 0.111	1.2 0.029	2.5 0.153	1.4 0.085	0.68 0.016	0.91 0.056	0.8 0.538	2-16
20x60		6	3.5 0.543	14.2 0.341	1.7 0.041	4.7 0.287	1.7 0.104	2.30 0.055	2.00 0.122	0.9 0.605	2-16
20x40x40		6	4.2 0.651	6.0 0.144	6.0 0.144	2.6 0.159	2.6 0.159	1.50 0.036	1.30 0.079	1.1 0.739	2-16
10x40		6	2.1 0.326	3.2 0.077	0.2 0.005	1.6 0.098	0.4 0.024	–	–	0.6 0.403	2-17
30x30		8	3.1 0.481	2.8 0.067	2.8 0.067	1.8 0.110	1.8 0.110	0.29 0.007	0.33 0.020	0.9 0.605	2-19
30x30 1N		8	3.7 0.574	3.1 0.074	3.5 0.084	2.0 0.122	2.3 0.140	2.80 0.067	1.50 0.092	1.0 0.672	2-19
30x30 2N		8	3.5 0.543	2.8 0.067	3.5 0.084	2.1 0.129	2.7 0.165	1.50 0.036	1.20 0.073	1.0 0.672	2-19
30x30 2NVS		8	3.5 0.543	3.1 0.074	3.1 0.074	2.0 0.122	2.0 0.122	1.70 0.041	1.10 0.067	1.0 0.672	2-20
30x30 3N		8	3.3 0.512	3.1 0.074	2.8 0.067	2.3 0.140	2.1 0.129	0.86 0.021	0.73 0.045	0.9 0.605	2-20
30x30°		8	3.7 0.574	3.5 0.084	3.6 0.087	2.0 0.122	1.9 0.116	1.50 0.036	2.00 0.122	1.0 0.672	2-17
30x45°		8	4.0 0.620	3.6 0.087	5.1 0.123	2.1 0.129	2.3 0.140	2.10 0.050	2.40 0.146	1.1 0.739	2-21
30x60°		8	3.6 0.558	3.0 0.072	4.1 0.099	1.7 0.104	1.9 0.116	1.50 0.036	2.00 0.122	1.0 0.672	2-21
30x30 R		8	2.9 0.450	2.3 0.055	2.3 0.055	1.4 0.085	1.4 0.085	0.81 0.019	1.20 0.073	0.8 0.538	2-21
30x60		8	5.5 0.853	19.6 0.471	5.1 0.123	7.0 0.427	3.9 0.238	2.60 0.062	2.10 0.128	1.5 1.008	2-22
30x60 4N		8	5.8 0.899	20.2 0.485	5.5 0.132	6.7 0.409	3.8 0.232	4.80 0.115	2.40 0.146	1.6 1.075	2-22
30x60x60		8	8.2 1.271	26.2 0.630	26.2 0.630	7.6 0.464	7.6 0.464	6.40 0.154	3.60 0.220	2.2 1.479	2-22

Profile	Slot	Profile surface	Moment of inertia			Section modulus		Torsion index		Mass m (kg/m; lbs/ft)	Page
			A (cm ² /in ²)	I _x (cm ⁴ /in ⁴)	I _y (cm ⁴ /in ⁴)	W _x (cm ³ /in ³)	W _y (cm ³ /in ³)	I _t (cm ⁴ /in ⁴)	W _t (cm ³ /in ³)		
30x90		8	7.7 1.194	60.7 1.459	7.3 0.175	13.5 0.824	4.9 0.299	5.10 0.123	3.80 0.232	2.1 1.411	2-23
30x120		8	9.9 1.535	136.3 3.275	9.6 0.231	22.7 1.385	6.4 0.391	7.60 0.183	5.60 0.342	2.7 1.815	2-23
30x45		8/10	4.0 0.620	8.1 0.195	3.9 0.094	3.9 0.238	2.9 0.177	1.30 0.031	1.30 0.079	1.1 0.739	2-24
60x60 8N		8	9.8 1.519	39.7 0.954	39.7 0.954	13.2 0.805	13.2 0.805	19.30 0.464	6.80 0.415	2.6 1.748	2-24
11x20		8	1.0 0.155	0.5 0.012	0.1 0.002	0.7 0.043	0.3 0.018	–	–	0.3 0.202	2-24
15x120		8	9.0 1.395	110.4 2.653	2.2 0.053	18.4 1.123	2.7 0.165	–	–	2.4 1.613	2-25
40x40L		10	5.6 0.868	9.1 0.219	9.1 0.219	4.5 0.275	4.5 0.275	1.30 0.031	0.74 0.045	1.5 1.008	2-28
40x40L 0N		10	6.3 0.977	10.4 0.250	10.4 0.250	5.2 0.317	5.2 0.317	10.70 0.257	4.30 0.262	1.7 1.143	2-28
40x40L 1N		10	6.1 0.946	9.1 0.219	9.1 0.219	4.5 0.275	4.5 0.275	6.90 0.166	3.70 0.226	1.7 1.143	2-28
40x40L 2N		10	6.0 0.930	9.0 0.216	10.3 0.248	4.5 0.275	5.2 0.317	4.00 0.096	3.00 0.183	1.6 1.075	2-29
40x40L 2NVS		10	6.0 0.930	9.7 0.233	9.7 0.233	4.9 0.299	4.9 0.299	4.50 0.108	2.70 0.165	1.6 1.075	2-29
40x40L 3N		10	5.8 0.899	9.7 0.233	9.0 0.216	4.8 0.293	4.5 0.275	2.60 0.062	1.70 0.104	1.6 1.075	2-29
40x30°		10	6.2 0.961	9.4 0.226	11.8 0.284	4.7 0.287	5.9 0.360	3.00 0.072	3.10 0.189	1.7 1.143	2-30
40x45°		10	6.8 1.054	9.9 0.238	16.6 0.399	5.0 0.305	8.3 0.506	4.20 0.101	3.70 0.226	1.8 1.210	2-30
40x60°		10	6.3 0.977	8.7 0.209	13.1 0.315	4.3 0.262	6.5 0.397	3.00 0.072	3.10 0.189	1.7 1.143	2-30
40x40L R		10	5.0 0.775	7.2 0.173	7.2 0.173	3.6 0.220	3.6 0.220	2.50 0.060	2.00 0.122	1.3 0.874	2-31
40x40 HR		10	5.5 0.853	8.1 0.195	7.6 0.183	4.0 0.244	3.6 0.220	4.60 0.111	2.80 0.171	1.5 1.008	2-31
40x80L		10	9.9 1.535	63.4 1.524	17.3 0.416	15.9 0.970	8.7 0.531	8.02 0.193	4.80 0.293	2.7 1.815	2-32
40x80L 4N		10	10.4 1.612	65.2 1.567	19.1 0.459	16.3 0.995	9.9 0.604	13.30 0.320	4.40 0.268	2.8 1.882	2-32
40x80L 3NVS		10	10.6 1.643	67.8 1.629	19.0 0.457	17.0 1.037	9.5 0.580	15.90 0.382	5.20 0.317	2.9 1.949	2-33
40x80x80L		10	15.4 2.387	96.6 2.321	96.6 2.321	24.2 1.477	24.2 1.477	19.60 0.471	9.80 0.598	4.2 2.823	2-33
40x120L		10	15.5 2.403	203.2 4.883	27.8 0.668	33.9 2.069	13.9 0.848	17.20 0.413	10.00 0.610	4.2 2.823	2-33
40x160L		10	20.5 3.178	466.7 11.215	37.2 0.894	58.3 3.557	18.6 1.135	25.80 0.620	14.60 0.891	5.5 3.697	2-34
80x80L		10	18.2 2.821	132.1 3.174	132.1 3.174	33.0 2.014	33.0 2.014	59.80 1.437	17.20 1.050	4.9 3.293	2-34
80x80L 4NVS		10	19.3 2.992	142.5 3.424	142.5 3.424	35.6 2.172	35.6 2.172	92.00 2.211	16.80 1.025	5.2 3.495	2-35

Profile	Slot	Profile surface 	Moment of inertia			Section modulus		Torsion index		Mass m (kg/m; lbs/ft)	Page
			A (cm ² /in ²)	I _x (cm ⁴ /in ⁴)	I _y (cm ⁴ /in ⁴)	W _x (cm ³ /in ³)	W _y (cm ³ /in ³)	I _t (cm ⁴ /in ⁴)	W _t (cm ³ /in ³)		
80x80L 6N	10		18.8 2.914	134.1 3.222	140.9 3.386	33.5 2.044	36.2 2.209	72.60 1.745	15.00 0.915	5.1 3.428	2-35
40x120x120L	10		24.6 3.813	318.0 7.642	318.0 7.642	42.2 2.575	42.2 2.575	37.10 0.892	19.00 1.159	6.7 4.503	2-35
80x120L	10		25.6 3.968	389.2 9.352	192.8 4.633	64.9 3.960	48.2 2.941	119.00 2.860	29.10 1.776	6.9 4.638	2-36
80x160L	10		32.9 5.100	850.7 20.442	253.4 6.089	106.3 6.486	63.4 3.869	182.00 4.373	41.10 2.508	8.9 5.982	2-36
45x45L	10		6.0 0.930	11.7 0.281	11.7 0.281	5.2 0.317	5.2 0.317	1.46 0.035	0.75 0.046	1.6 1.075	2-37
45x45L 0N	10		6.7 1.039	13.5 0.324	13.5 0.324	6.0 0.366	6.0 0.366	16.20 0.389	6.10 0.372	1.8 1.210	2-37
45x45L 1N	10		6.5 1.008	12.6 0.303	13.5 0.324	5.5 0.336	6.0 0.366	10.00 0.240	5.20 0.317	1.8 1.210	2-38
45x45L 2N	10		6.4 0.992	11.6 0.279	13.5 0.324	5.2 0.317	6.0 0.366	5.50 0.132	4.30 0.262	1.7 1.143	2-38
45x45L 2NVS	10		6.4 0.992	12.6 0.303	12.6 0.303	5.6 0.342	5.6 0.342	6.30 0.151	3.80 0.232	1.7 1.143	2-38
45x45L 3N	10		6.2 0.961	12.6 0.303	11.7 0.281	5.4 0.330	5.2 0.317	3.40 0.082	2.40 0.146	1.7 1.143	2-39
45x30°	10		6.9 1.070	12.7 0.305	15.2 0.365	5.0 0.305	5.3 0.323	6.60 0.159	5.70 0.348	1.9 1.277	2-39
45x45°	10		7.6 1.178	13.4 0.322	21.4 0.514	5.2 0.317	6.4 0.391	9.00 0.216	6.80 0.415	2.0 1.344	2-39
45x60°	10		6.8 1.054	11.4 0.274	16.9 0.406	4.4 0.268	5.2 0.317	6.80 0.163	4.30 0.262	1.8 1.210	2-40
45x45L R	10		4.9 0.760	8.6 0.207	8.6 0.207	5.0 0.305	5.0 0.305	3.30 0.079	2.80 0.171	1.3 0.874	2-40
45x45HR	10		6.6 1.023	11.0 0.264	10.7 0.257	4.4 0.268	4.8 0.293	7.60 0.183	3.40 0.207	1.8 1.210	2-40
45x45	10		7.5 1.163	13.8 0.332	13.8 0.332	6.1 0.372	6.1 0.372	2.65 0.064	0.96 0.059	2.0 1.344	2-41
45x60	10		11.0 1.705	37.2 0.894	22.7 0.545	12.4 0.757	10.1 0.616	6.70 0.161	4.09 0.250	3.0 2.016	2-42
45x90SL	10		9.0 1.395	73.4 1.764	18.1 0.435	16.3 0.995	8.0 0.488	8.57 0.206	4.00 0.244	2.4 1.613	2-43
45x90L	10		11.3 1.752	82.0 1.970	23.6 0.567	18.2 1.111	10.5 0.641	15.10 0.363	4.40 0.268	3.0 2.016	2-43
45x90L 2N	10		12.0 1.860	85.6 2.057	26.9 0.646	38.1 2.325	6.0 0.366	31.70 0.762	7.70 0.470	3.2 2.151	2-44
45x90L 3NVS	10		11.8 1.829	87.2 2.095	25.2 0.606	38.8 2.368	5.6 0.342	25.70 0.618	6.60 0.403	3.2 2.151	2-44
45x90	10		15.4 2.387	124.6 2.994	32.8 0.788	27.7 1.690	14.6 0.891	15.40 0.370	6.61 0.403	4.2 2.823	2-45
45x180	10		25.5 3.953	766.7 18.424	57.3 1.377	85.2 5.199	25.5 1.556	44.40 1.067	17.00 1.037	6.9 4.638	2-46

Profile	Slot	Profile surface	Moment of inertia			Section modulus		Torsion index		Mass m (kg/m; lbs/ft)	Page
			A (cm ² /in ²)	I _x (cm ⁴ /in ⁴)	I _y (cm ⁴ /in ⁴)	W _x (cm ³ /in ³)	W _y (cm ³ /in ³)	I _t (cm ⁴ /in ⁴)	W _t (cm ³ /in ³)		
45x270		10	61.9 9.595	3962.0 95.207	118.0 2.836	300.2 18.318	61.6 3.759	–	–	16.7 11.225	2-46
45x90x90L		10	21.2 3.286	152.1 3.655	152.1 3.655	19.1 1.165	32.6 1.989	34.90 0.839	11.60 0.708	5.7 3.831	2-47
45x90x90L 4 N		10	22.1 3.426	160.8 3.864	160.8 3.864	30.6 1.867	30.6 1.867	65.30 1.569	17.20 1.050	5.95 3.999	2-47
90x90SL		10	14.1 2.186	130.2 3.129	130.2 3.129	28.9 1.763	28.9 1.763	42.50 1.021	13.90 0.848	3.8 2.554	2-47
90x90L		10	24.1 3.736	211.1 5.073	211.1 5.073	46.9 2.862	46.9 2.862	82.10 1.973	20.10 1.227	6.5 4.369	2-48
90x90L 4N		10	24.2 3.751	227.4 5.464	214.7 5.159	50.5 3.082	47.7 2.911	122.00 2.932	22.20 1.355	6.5 4.369	2-48
90x90L 4NVS		10	24.2 3.751	220.9 5.308	220.9 5.308	49.2 3.002	49.2 3.002	127.00 3.052	22.00 1.342	6.5 4.369	2-49
90x90		10	38.4 5.952	299.8 7.204	299.8 7.204	66.7 4.070	66.7 4.070	118.60 2.850	26.00 1.587	10.4 6.990	2-49
90x180L		10	42.8 6.634	1380.0 33.161	401.0 9.636	153.3 9.354	89.1 5.437	257.00 6.176	47.10 2.874	11.6 7.797	2-50
90x180		10	63.6 9.858	2138.3 51.383	544.3 13.080	237.6 14.498	121.0 7.383	429.00 10.309	64.00 3.905	17.2 11.561	2-50
90x360		10	90.2 13.981	14065.0 337.982	710.0 17.061	781.4 47.681	157.7 9.623	937.10 22.519	117.60 7.176	24.4 16.400	2-51
15x22.5		10	1.3 0.202	0.8 0.019	0.3 0.007	0.9 0.055	0.6 0.037	–	–	0.3 0.202	2-51
15x180		10	11.6 1.798	321.7 7.730	3.2 0.077	35.7 2.178	4.2 0.256	–	–	3.1 2.084	2-52
22.5x45		10	4.7 0.729	7.1 0.171	2.9 0.070	3.2 0.195	2.6 0.159	–	–	1.3 0.874	2-52
22.5x180		10	21.6 3.348	581.0 13.961	11.8 0.284	66.8 4.076	14.7 0.897	–	–	5.8 3.898	2-52
50x50L		10	9.3 1.442	21.2 0.508	21.2 0.508	8.5 0.519	8.5 0.519	5.37 0.129	4.30 0.262	2.5 1.680	2-53
50x100L		10	17.2 2.666	162.8 3.912	42.6 1.024	32.6 1.989	17.0 1.037	29.43 0.707	10.70 0.653	4.6 3.092	2-53
50x150L		10	25.8 3.999	540.0 12.976	64.2 1.543	72.0 4.393	25.7 1.568	52.10 1.252	20.50 1.251	6.9 4.638	2-54
100x100L		10	29.9 4.635	318.3 7.649	318.3 7.649	63.7 3.887	63.7 3.887	153.53 3.689	31.40 1.916	8.1 5.444	2-54
100x200L		10	54.0 8.370	2133.1 51.258	602.1 14.468	213.3 13.016	120.4 7.347	421.00 10.117	75.70 4.619	14.6 9.813	2-55
60x60L		10	9.6 1.488	32.4 0.779	32.4 0.779	10.8 0.659	10.8 0.659	13.20 0.317	8.70 0.531	2.6 1.748	2-55
60x60		10	14.4 2.232	52.2 1.254	52.2 1.254	17.4 1.062	17.4 1.062	15.90 0.382	8.80 0.537	3.9 2.621	2-56
60x90		10	25.8 3.999	214.2 5.147	90.5 2.175	47.6 2.905	30.2 1.843	45.80 1.101	18.00 1.098	7.0 4.705	2-56

Profile	Slot	Profile surface	Moment of inertia		Section modulus		Torsion index		Mass m (kg/m; lbs/ft)	Page
			A (cm ² /in ²)	I _x (cm ⁴ /in ⁴)	I _y (cm ⁴ /in ⁴)	W _x (cm ³ /in ³)	W _y (cm ³ /in ³)	I _t (cm ⁴ /in ⁴)	W _t (cm ³ /in ³)	
50x50 Rectangular tube 	10	4.5 0.698	15.1 0.363	15.1 0.363	5.7 0.348	5.7 0.348	–	–	1.2 0.807	2-57
Frame profile 22.5x30 	10	3.2 0.496	1.7 0.041	3.0 0.072	1.5 0.092	2.0 0.122	–	–	0.9 0.605	2-59
Frame profile 22.5x45 	10	3.4 0.527	6.7 0.161	1.7 0.041	2.8 0.171	1.3 0.079	–	–	0.9 0.605	2-60
Angle profile 	10	4.5 0.698	8.8 0.211	6.9 0.166	3.2 0.195	2.3 0.140	–	–	1.2 0.807	2-61
Suspension profile 	10	2.0 0.310	2.0 0.048	0.5 0.012	2.7 0.165	0.3 0.018	–	–	0.6 0.403	2-62
30x100 L/R Slotted plate 	10	9.7 1.504	88.8 2.134	9.2 0.221	17.8 1.086	6.0 0.366	–	–	2.6 1.748	2-64
30x100 M Slotted plate 	10	9.7 1.504	88.8 2.134	9.2 0.221	17.8 1.086	6.0 0.366	–	–	2.6 1.748	2-64
Profile rail 30x45C 	10	4.4 0.682	10.3 0.248	5.6 0.135	4.2 0.256	3.7 0.226	–	–	1.2 0.807	2-67
U-profile 	10	4.4 0.682	10.4 0.250	8.3 0.199	4.6 0.281	4.1 0.250	–	–	1.2 0.807	2-68
SP 2/R 	8	5.2 0.806	4.3 0.103	11.7 0.281	2.4 0.146	5.2 0.317	–	–	1.4 0.941	2-68
SP 2/B 	10	10.4 1.612	49.6 1.192	25.8 0.620	12.1 0.738	11.5 0.702	–	–	2.8 1.882	2-69
SP 2/B-50 	8/10	6.9 1.070	16.1 0.387	16.9 0.406	5.3 0.323	7.5 0.458	–	–	1.9 1.277	2-69
SP 2/B-100 	10	11.9 1.845	95.1 2.285	30.4 0.731	20.0 1.220	13.5 0.824	–	–	3.2 2.151	2-69
SP 2/BH 	10	12.4 1.922	53.7 1.290	28.6 0.687	14.0 0.854	13.8 0.842	–	–	3.3 2.218	2-70
SP 4/R 	10	26.1 4.045	222.0 5.335	95.5 2.295	84.9 5.181	16.4 1.001	–	–	3.5 2.352	2-70
D28 		2.4 0.372	1.5 0.036	1.5 0.036	1.1 0.067	1.1 0.067	–	–	0.7 0.470	2-72
D28x55 		5.9 0.915	3.2 0.077	88.3 2.122	2.3 0.140	32.1 1.959	–	–	1.6 1.075	2-73
D28L 		1.8 0.279	1.3 0.031	1.3 0.031	1.0 0.061	1.0 0.061	–	–	0.5 0.336	2-76
D28L; N10 		2.6 0.403	1.2 0.029	2.0 0.048	0.8 0.049	1.4 0.085	–	–	0.7 0.470	2-76
Section profile MV45x45 	10	6.2 0.961	11.8 0.284	10.5 0.252	5.3 0.323	4.7 0.287	–	–	1.7 1.143	12-28
30x30 WG30 	8	3.2 0.496	2.5 0.060	3.0 0.072	1.6 0.098	1.9 0.116	–	–	0.9 0.605	10-9
30x30 WG40 	8	3.2 0.496	2.4 0.058	2.9 0.070	1.5 0.092	1.8 0.110	–	–	0.9 0.605	10-9
30x45 WG30 	8	4.5 0.698	7.3 0.175	4.2 0.101	3.2 0.195	2.7 0.165	–	–	1.2 0.807	10-9
30x45 WG40 	8	4.5 0.698	6.9 0.166	4.1 0.099	4.3 0.262	1.8 0.110	–	–	1.2 0.807	10-9



Profile finishing

Profile finishing is required whenever interlocking connectors are used. Bores must be added for bolt connectors or threads cut in central bores, for example. This requires machining with standard dimensions. However, individual customer requirements can only be satisfied by customized profile finishes for all points along the profile.

Rexroth enables even these complex requirements to be met as standard. This is because we offer three options for ordering the right profile finishes:

Standard profile finishes with fixed material numbers

For certain profiles, you can receive selected profile finishes with a fixed material number. This is the easiest way to order the appropriate profile finish for our proven interlocking profile connectors.

The available profile finishes are shown in pictograms in the order tables.

Coming in January 2017

Quick & Easy – standard profile finishes

All profile finishes with standard dimensions: available for all profiles thanks to simple configuration with Quick & Easy.

For more information on the available profile finishes, see the fold-out section at the end of the catalog.

Coming in January 2017

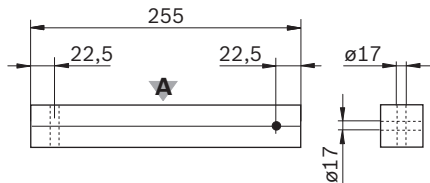
Quick & Easy – individual profile finishes

Get the greatest possible flexibility in defining your profile finishes. Individual finishing options can be achieved in virtually any combination and nearly every point along the profile.

For more information, see the fold-out section at the end of the catalog.

Example: 40x40L

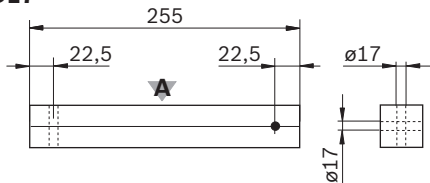
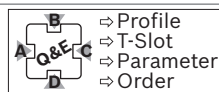
3 842 993 126 / 255 D17  D17V



00133799

Example: 40x40L 2N

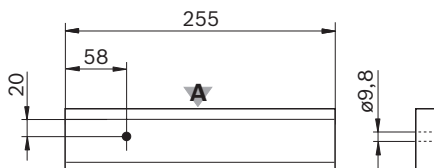
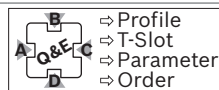
3 842 993 720 / 255 /
A=D17/-; B=-/D17



00133800

Example: 20x60

3 842 993 698 / 255 /
[B=D1; PS=58; OS=20; DM=9,8]



00133801



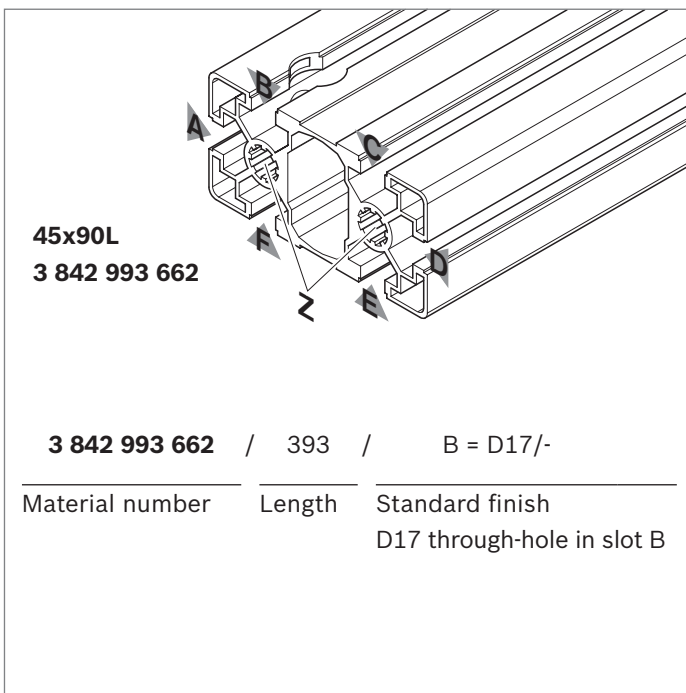
eShop and MTpro – software tools for designers, planners, and purchasers

Quick & Easy is supported by Rexroth's eShop and the MTpro profile configurator.

We offer:

- ▶ Customer-friendly configurations
- ▶ Generation of 3D CAD models for designers
- ▶ Drawings at the press of a button
- ▶ Integration of frames/profiles in layouts
- ▶ Easy ordering at the click of a mouse

Coming in January 2017



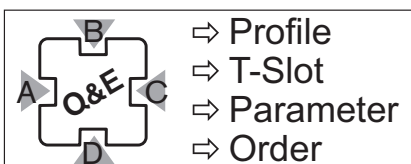
Quick & Easy – four steps for simple ordering

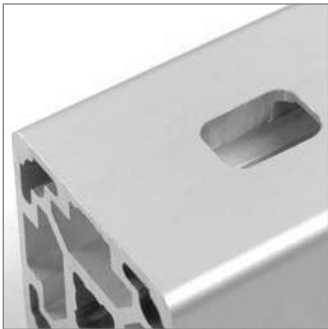
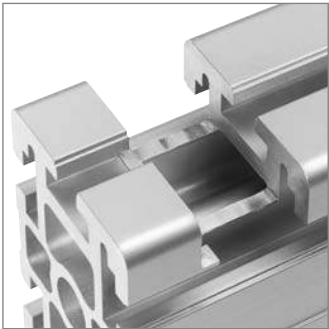
The type of profile finishing is defined in an order key; all finishes for a profile can be summarized in one order key.

1. Select profile cross-section and length
2. Specify slot for finishing:
all profile slots are identified with letters (A, B, C, etc.)
arranged in clockwise order (see profile dimension images)
3. Define parameters:
 - type of finishing (drilling, milling, miter cutting)
 - Distance from profile end
4. Place order:
conventionally by fax or, preferably online in our eShop

Logical structure of the order key

Material number / length / [slot designation = finishing; parameter set]





Profile finishing

Rexroth offers you numerous connection options for putting strut profiles together. The wide variety of connector types is due to the differing demands made of the applications:

- ▶ Right-angled
- ▶ Variable-angle
- ▶ Internal
- ▶ Torsion-resistant
- ▶ Vibration-resistant
- ▶ With or without profile finishing

If you require a finished profile, it can be provided for you in an installation-ready form. When you select the corresponding material number the profile is provided in cut, burr-free form, or alternatively fully finished with drilled holes or threads. This eliminates risk for you and reduces your production workload.

If you wish to undertake the finishing yourself, here are a few tips:

Saw and saw blade

Segmental metal circular saw blade, carbide-tipped
Number of teeth: 92 or 96
Rotational speed: at least 2500 rpm

Finishing of central holes

As a rule, the threads can be directly formed and cut, but countersinks facilitate their production. The central holes of the strut profiles are designed for the following thread manufacturing processes.

Threads	Finish	Note
M6	Thread forming	–
M8	Thread forming	–
M12	Thread cutting	–
M16	Thread forming	Pre-drilling in some cases

Drilling jigs

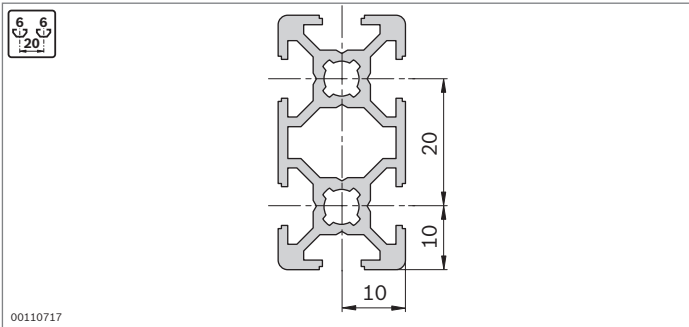
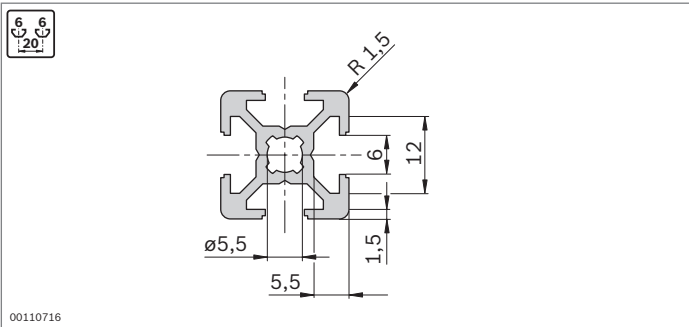
In the tools section you will find useful drilling jigs for the Rexroth standard finishes (p. 14-2).

Strut profiles with 6 mm slot

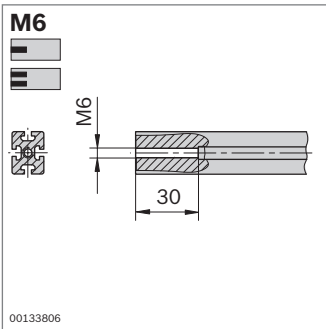
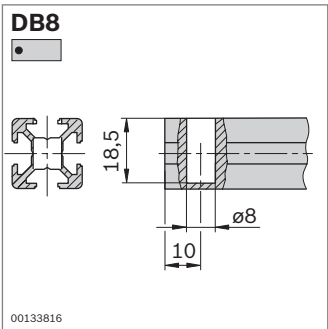
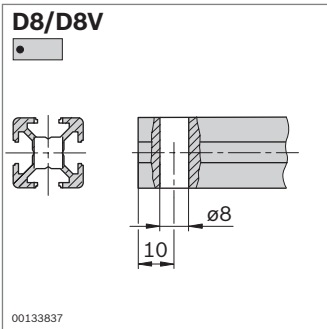
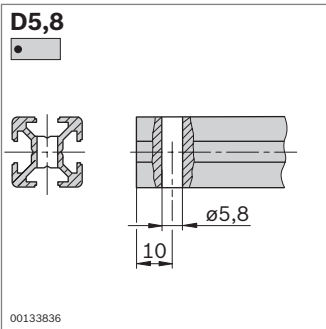
Strut profiles with 6 mm slot for light structures, such as supports and lab fixtures.

The 20x40 and 20x60 profiles are especially suitable for reinforcing; the 20x40x40 profile is suitable for constructing showcases, flow racks, and enclosures.

Slot, modular dimensions, central bore



Profile finishing



Minimum profile lengths (mm) for Quick & Easy standard profile finishes on one or both sides

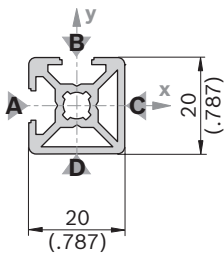
	-	M6	D5.8	D8/DB8
-	50	50	50	50
M6	50	70	50	70
D5.8	50	50	50	50
D8/DB8	50	70	50	50

20x20 2NVS

A = 1,8 cm²
I_x = 0,7 cm⁴
I_y = 0,7 cm⁴
W_x = 0,7 cm³
W_y = 0,7 cm³
m = 0,5 kg/m



19171



Cap: see 20x20

20x20 2NVS		L (mm)	No.
1 pc		50 ... 3000	3 842 992 924 / L
20 pcs		3000	3 842 519 658
1 pc		3000	3 842 519 657

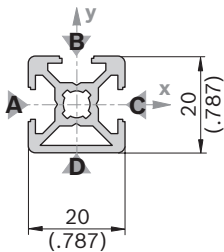
2

20x20 3N

A = 1,7 cm²
I_x = 0,7 cm⁴
I_y = 0,8 cm⁴
W_x = 0,7 cm³
W_y = 0,7 cm³
m = 0,5 kg/m



19172



Cap: See 20x20

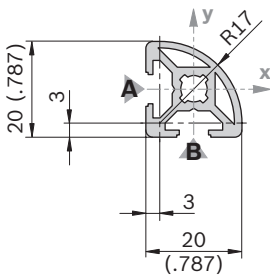
20x20 3N		L (mm)	No.
1 pc		50 ... 3000	3 842 992 889 / L
20 pcs		3000	3 842 517 180
1 pc			3 842 517 174

20x20 R

A = 1,6 cm²
I_x = 0,6 cm⁴
I_y = 0,6 cm⁴
W_x = 0,5 cm³
W_y = 0,5 cm³
m = 0,4 kg/m



19173



20x20 R		L (mm)	No.
1 pc		50 ... 3000	3 842 992 890 / L
20 pcs		3000	3 842 517 183
1 pc		3000	3 842 517 177

Cap	Color	ESD		No.
20x20 R (1x)	Signal gray		20	3 842 548 826
20x20 R (1x)	Black		20	3 842 548 827

Material: PP

Material: PP

20x60

$A = 3,5 \text{ cm}^2$
 $I_x = 14,2 \text{ cm}^4$
 $I_y = 1,7 \text{ cm}^4$
 $W_x = 4,7 \text{ cm}^3$
 $W_y = 1,7 \text{ cm}^3$
 $m = 0,9 \text{ kg/m}$

Technical drawing of a 20x60 mm C-channel profile. The drawing shows the front and side views. The front view is a rectangle with a width of 60 mm and a height of 20 mm. The side view shows the channel's depth of 40 mm. The profile has a C-shape with a central web and two side flanges. The flanges have a width of 10 mm and a height of 10 mm. The web has a width of 10 mm and a height of 20 mm. The profile is labeled with 'A' through 'F' at various points. A coordinate system (x, y) is shown with the x-axis pointing right and the y-axis pointing up. The dimensions are given in mm. The weight per meter is 0.9 kg/m. The drawing is labeled '20x60' and '2.362'.

Material: PP

20x40x40

$A = 4,2 \text{ cm}^2$
 $I_x = 6,0 \text{ cm}^4$
 $I_y = 6,0 \text{ cm}^4$
 $W_x = 2,6 \text{ cm}^3$
 $W_y = 2,6 \text{ cm}^3$
 $m = 1,1 \text{ kg/m}$

Material: PP

Profile finishing:	D8: in slots B/F, C/E D8V: in slots A/D
--------------------	--

20x60		L (mm)	No.
1 pc		50 ... 3000	3 842 992 992 / L
 16 pcs		3000	3 842 537 819
1 pc		3000	3 842 532 239 

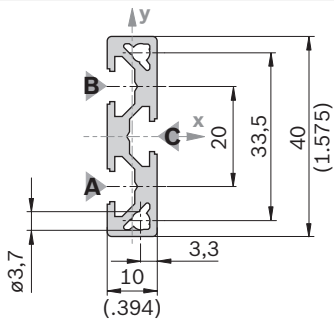
20x40x40		L (mm)	No.
1 pc		50 ... 3000	3 842 992 991 / L
 16 pcs		3000	3 842 537 818 
1 pc		3000	3 842 523 241 

10x40

A = 2,1 cm²
I_x = 3,2 cm⁴
I_y = 0,2 cm⁴
W_x = 1,6 cm³
W_y = 0,4 cm³
m = 0,6 kg/m



19177



10x40		L (mm)	No.
1 pc		50 ... 3000	3 842 993 077 / L
10 pcs		3000	3 842 526 817
1 pc		3000	3 842 526 816

Cap	Color	ESD		No.
10x40 (1x)	Signal gray		20	3 842 548 766
10x40 (1x)	Black		20	3 842 548 767

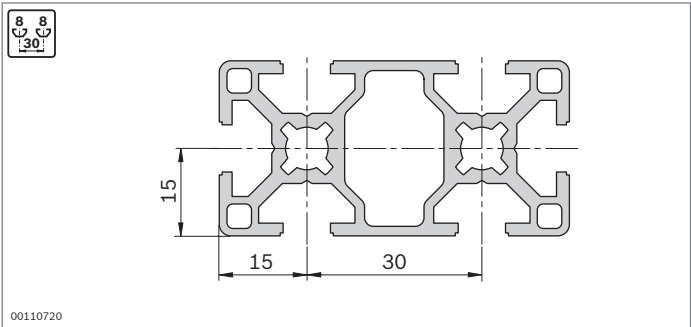
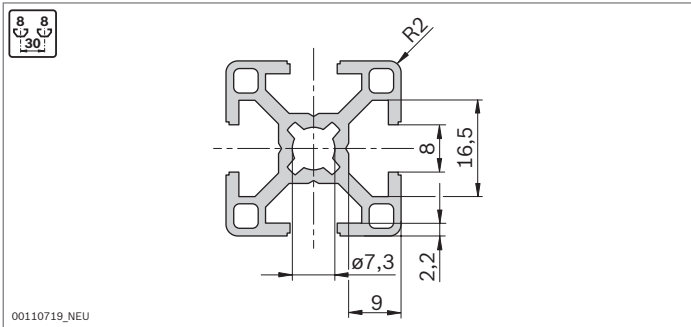
Material: PP

Strut profiles with 8 mm slot

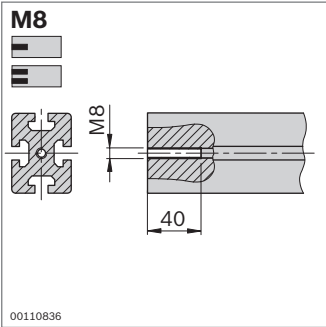
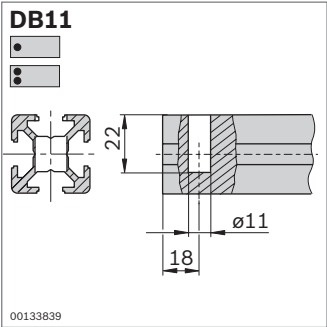
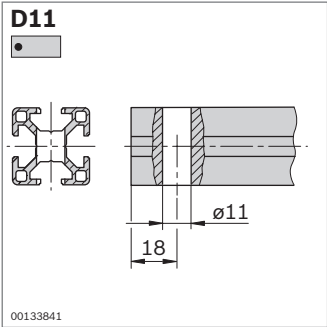
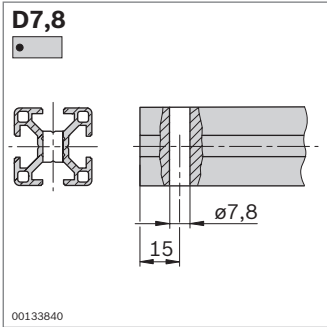
Strut profiles with a 8 mm slot are suitable for medium loads, such as material shuttles, light fixtures, frames and partition walls.

Profile 30x60x60 is suitable for constructing showcases and flow racks. Attractive covers and hoods can be designed with radius profiles.

Slot, modular dimensions, central bore



Profile finishing



Minimum profile lengths (mm) for Quick & Easy standard profile finishes on one or both sides

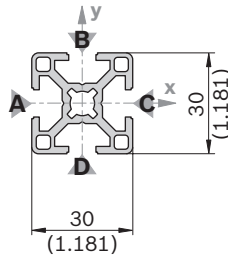
	-	M8	D7.8	D11/DB11
-	50	50	50	50
M8	50	80	62	70
D7.8	50	62	60	50
D11/DB11	50	70	50	60

30x30

$A = 3,1 \text{ cm}^2$
 $I_x = 2,8 \text{ cm}^4$
 $I_y = 2,8 \text{ cm}^4$
 $W_x = 1,8 \text{ cm}^3$
 $W_y = 1,8 \text{ cm}^3$
 $m = 0,9 \text{ kg/m}$



19178



Cap	Color	ESD	No.
30x30 (1x)	Signal gray		100 3 842 548 744
30x30 (1x)	Black		20 3 842 548 745

Material: PP

Cap with hole	Color	ESD	No.
30x30 (1x)	Signal gray		20 3 842 548 774
30x30 (1x)	Black		20 3 842 548 775

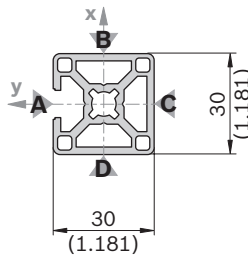
Material: PP

30x30 1N

$A = 3,7 \text{ cm}^2$
 $I_x = 3,1 \text{ cm}^4$
 $I_y = 3,5 \text{ cm}^4$
 $W_x = 2,0 \text{ cm}^3$
 $W_y = 2,3 \text{ cm}^3$
 $m = 1,0 \text{ kg/m}$



19179



30x30	L (mm)	No.
1 pc	50 ... 5600	3 842 990 720 / L
1 pc M8	50 ... 5600	3 842 990 721 / L
1 pc M8	80 ... 5600	3 842 990 723 / L
1 pc M8	70 ... 5600	3 842 990 724 / L
1 pc D7,8	60 ... 5600	3 842 992 965 / L
1 pc D11	50 ... 5600	3 842 990 722 / L
1 pc D11	60 ... 5600	3 842 990 725 / L
1 pc D11	60 ... 5600	3 842 990 726 / L
20 pcs	6000	3 842 502 538
1 pc	6000	3 842 501 574

2

30x30 1N	L (mm)	No.
1 pc	50 ... 5600	3 842 992 397 / L
20 pcs	5600	3 842 506 948
1 pc	5600	3 842 506 952

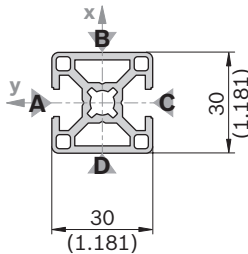
Cap: See 30x30

30x30 2N

$A = 3,5 \text{ cm}^2$
 $I_x = 2,8 \text{ cm}^4$
 $I_y = 3,5 \text{ cm}^4$
 $W_x = 2,1 \text{ cm}^3$
 $W_y = 2,7 \text{ cm}^3$
 $m = 1,0 \text{ kg/m}$



19180



30x30 2N	L (mm)	No.
1 pc	50 ... 5600	3 842 992 399 / L
20 pcs	5600	3 842 506 950
1 pc	5600	3 842 506 954

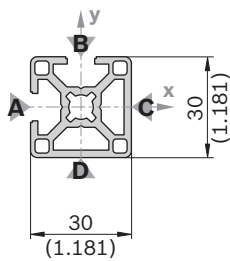
Cap: See 30x30

30x30 2NVS

A = 3,5 cm²
I_x = 3,1 cm⁴
I_y = 3,1 cm⁴
W_x = 2,0 cm³
W_y = 2,0 cm³
m = 1,0 kg/m



19181



Cap: See 30x30

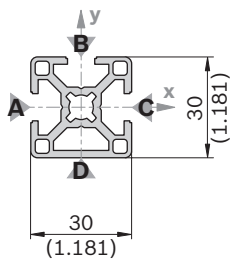
30x30 2NVS		L (mm)	No.
1 pc		50 ... 5600	3 842 992 398 / L
 20 pcs		5600	3 842 506 949 
1 pc		5600	3 842 506 953 

30x30 3N

A = 3,3 cm²
I_x = 3,1 cm⁴
I_y = 2,8 cm⁴
W_x = 2,3 cm³
W_y = 2,1 cm³
m = 0,9 kg/m



19182



Cap: See 30x30

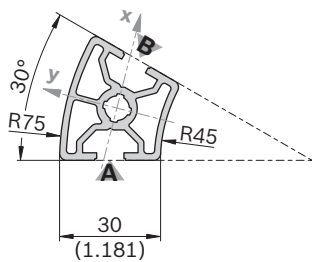
30x30 3N		L (mm)	No.
1 pc		50 ... 5600	3 842 992 400 / L
 20 pcs		5600	3 842 506 951 
1 pc		5600	3 842 506 955 

30x30°

A = 3,7 cm²
I_x = 3,5 cm⁴
I_y = 3,6 cm⁴
W_x = 2,0 cm³
W_y = 1,9 cm³
m = 1,0 kg/m



19183



30x30°		L (mm)	No.
1 pc		50 ... 5600	3 842 993 010 / L
 20 pcs		5600	3 842 524 031
1 pc		5600	3 842 524 030

Cap	Color	ESD		No.
30x30° (1x)	Black		20	3 842 524 050

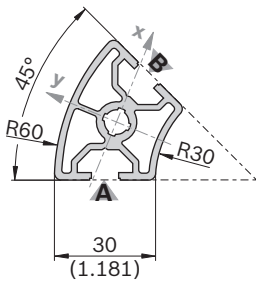
Material: PA

30x45°

A = 4,0 cm²
I_x = 3,6 cm⁴
I_y = 5,1 cm⁴
W_x = 2,1 cm³
W_y = 2,3 cm³
m = 1,1 kg/m



19184



30x45°		L (mm)	No.
1 pc		50 ... 5600	3 842 993 011 / L
20 pcs		5600	3 842 524 034
1 pc		5600	3 842 524 033

2

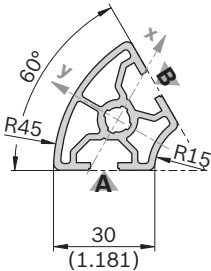
Cap	Color	ESD		No.
30x45° (1x)	Black		20	3 842 524 051
Material:		PA		

30x60°

A = 3,6 cm²
I_x = 3,0 cm⁴
I_y = 4,1 cm⁴
W_x = 1,7 cm³
W_y = 1,9 cm³
m = 1,0 kg/m



19185



30x60°		L (mm)	No.
1 pc		50 ... 5600	3 842 993 012 / L
20 pcs		5600	3 842 524 037
1 pc		5600	3 842 524 036

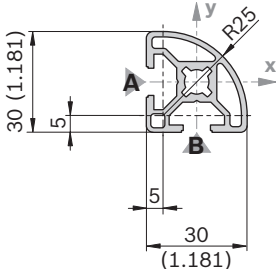
Cap	Color	ESD		No.
30x60° (1x)	Black		20	3 842 524 052
Material:		PA		

30x30 R

A = 2,9 cm²
I_x = 2,3 cm⁴
I_y = 2,3 cm⁴
W_x = 1,4 cm³
W_y = 1,4 cm³
m = 0,8 kg/m



19186



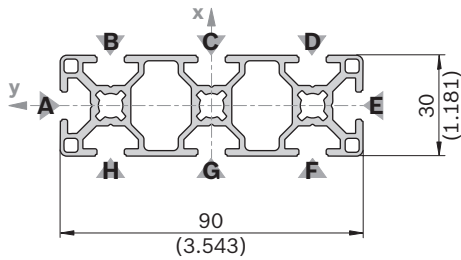
30x30 R		L (mm)	No.
1 pc		50 ... 5600	3 842 992 896 / L
20 pcs		5600	3 842 517 198
1 pc		5600	3 842 517 197

Cap	Color	ESD		No.
30x30 R (1x)	Signal gray		20	3 842 548 776
30x30 R (1x)	Black		20	3 842 548 777
Material:		PP		

30x60x60		L (mm)	No.
1 pc		50 ... 5600	3 842 993 016 / L
 20 pcs		5600	3 842 524 049
1 pc		5600	3 842 524 048

30x90

$A = 7,7 \text{ cm}^2$
 $I_x = 60,7 \text{ cm}^4$
 $I_y = 7,3 \text{ cm}^4$
 $W_x = 13,5 \text{ cm}^3$
 $W_y = 4,9 \text{ cm}^3$
 $m = 2,1 \text{ kg/m}$



19190

30x90**L (mm) No.**

20 pcs 6070 **3 842 541 937**

2

Cap	Color	ESD	No.
30x30 (3x)	Signal gray	100	3 842 548 744
30x30 (3x)	Black	20	3 842 548 745

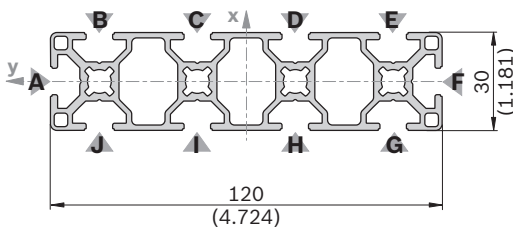
Material: PP

Cap with hole	Color	ESD	No.
30x30 (3x)	Signal gray	20	3 842 548 774
30x30 (3x)	Black	20	3 842 548 775

Material: PP

30x120

$A = 9,9 \text{ cm}^2$
 $I_x = 136,3 \text{ cm}^4$
 $I_y = 9,6 \text{ cm}^4$
 $W_x = 22,7 \text{ cm}^3$
 $W_y = 6,4 \text{ cm}^3$
 $m = 2,7 \text{ kg/m}$



19191

30x120**L (mm) No.**

20 pcs 6070 **3 842 541 939**

Cap	Color	ESD	No.
30x30 (4x)	Signal gray	100	3 842 548 744
30x60 (2x)	Signal gray	20	3 842 548 780
30x30 (4x)	Black	20	3 842 548 745
30x60 (2x)	Black	20	3 842 548 781

Material: PP

Cap with hole	Color	ESD	No.
30x30 (4x)	Signal gray	20	3 842 548 774
30x30 (4x)	Black	20	3 842 548 775

Material: PP

30x45

A = 4,0 cm²

I_x = 8,1 cm⁴

I_y = 3,9 cm⁴

W_x = 3,9 cm³

W_y = 2,9 cm³

m = 1,1 kg/m

8

8

30

19192

Cap	Color	ESD		No.
30x45 (1x)	Signal gray		20	3 842 548 778
30x45 (1x)	Black		20	3 842 548 779
Material:	PP			

Cap with hole	Color	ESD		No.
30x45 (1x)	Black		20	3 842 531 220
Material:	PA			

60x60 8N

A = 9,8 cm²

I_x = 39,7 cm⁴

I_y = 39,7 cm⁴

W_x = 13,2 cm³

W_y = 13,2 cm³

m = 2,6 kg/m

8

8

30

19193

Cap	Color	ESD		No.
60x60 8N (1x)	Light gray		20	3 842 535 586
Material:	PA			

11x20

A = 1,0 cm²

I_x = 0,5 cm⁴

I_y = 0,1 cm⁴

W_x = 0,7 cm³

W_y = 0,3 cm³

m = 0,3 kg/m

8

8

30

19194

Cap	Color	ESD		No.
11x20 (1x)	Black		20	3 842 513 584
Material:	PA			

30x45		L (mm)	No.
1 pc		50 ... 5600	3 842 992 430 / L
1 pc	M8	50 ... 5600	3 842 992 431 / L
18 pcs		5600	3 842 511 704
1 pc		5600	3 842 511 703

60x60 8N		L (mm)	No.
1 pc		50 ... 6000	3 842 993 033 / L
20 pcs		6070	3 842 535 176
1 pc		6070	3 842 535 175

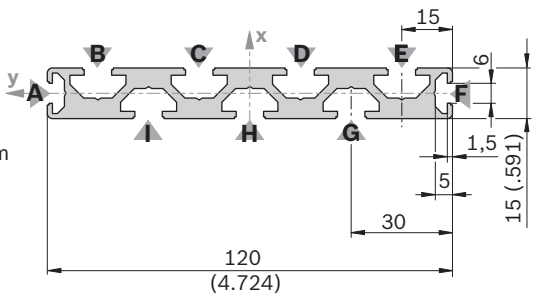
11x20		L (mm)	No.
1 pc		50 ... 2000	3 842 992 476 / L
10 pcs		2000	3 842 513 581
1 pc		2000	3 842 513 582

15x120

A = 9,0 cm²
I_x = 110,4 cm⁴
I_y = 2,2 cm⁴
W_x = 18,4 cm³
W_y = 2,7 cm³
m = 2,4 kg/m



19195



15x120		L (mm)	No.
1 pc		50 ... 3000	3 842 993 078 / L
 10 pcs		3000	3 842 537 821
1 pc		3000	3 842 526 818

2

Cap	Color	ESD		No.
15x120 (1x)	Signal gray		20	3 842 548 768
15x120 (1x)	Black		20	3 842 548 769

Material: PP

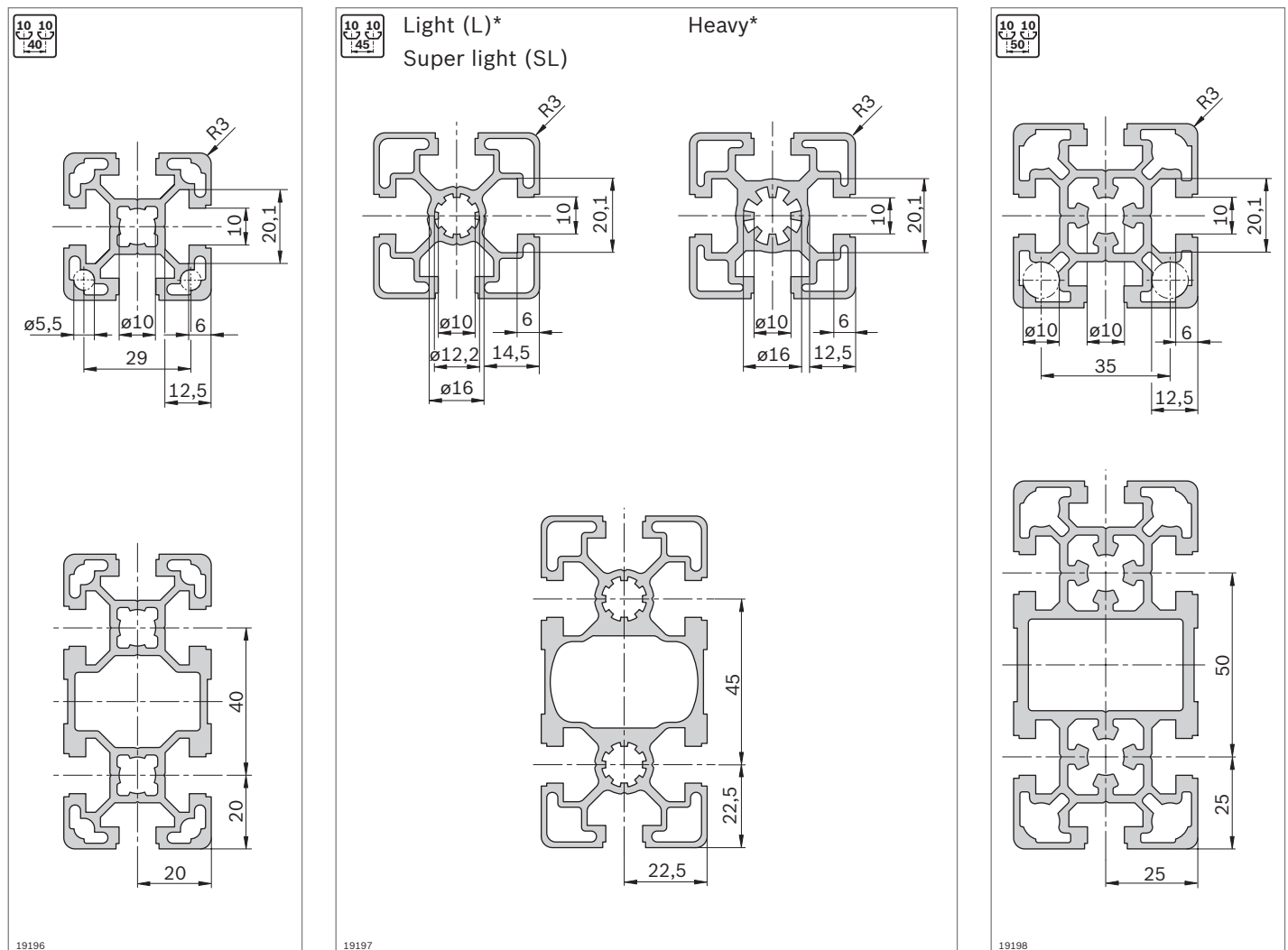
Strut profiles with 10 mm slot

The Rexroth modular profile system, with 10 mm slots in the modular dimensions 40 mm, 45 mm, 50 mm, and 60 mm, covers all conventional profile dimensions on the world market.

Thanks to their computer-optimized design, the strut profiles L with 10 mm slot (modular dimensions 40 mm, 45 mm, and

50 mm, e.g. 50x50L) combine high strengths with minimum use of materials. This gives you a cost-effective and stable solution for the construction of tables, protective enclosures or frames, for instance.

Slot, modular dimensions, central bore



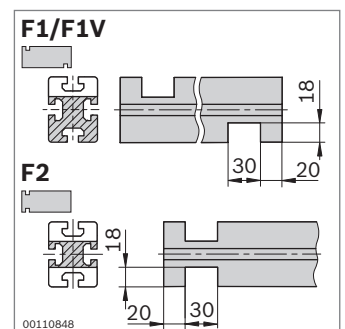
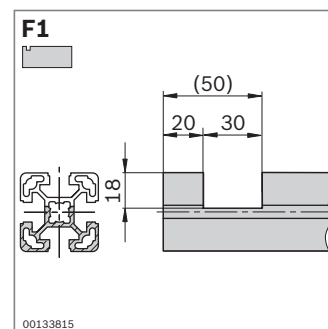
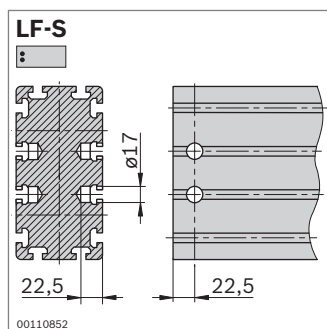
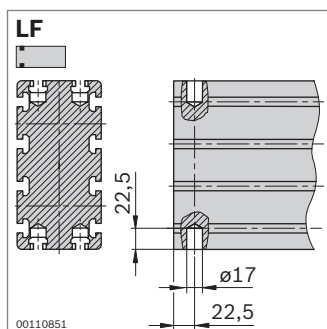
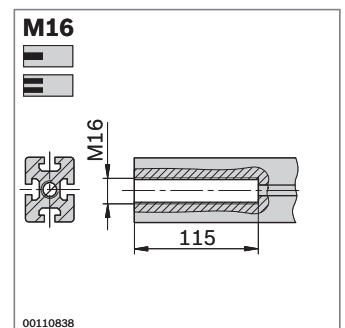
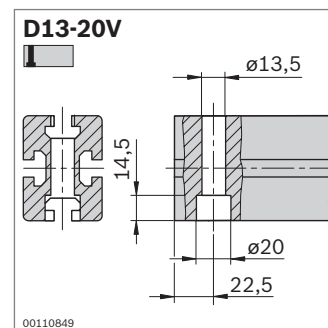
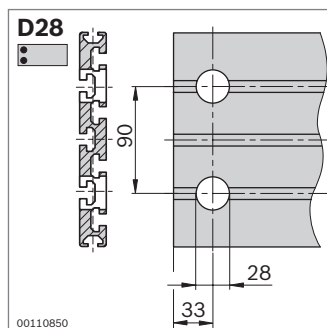
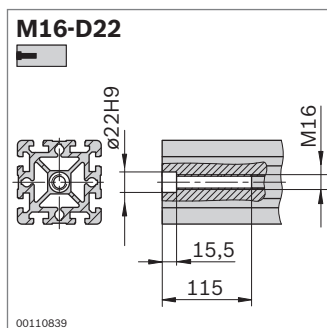
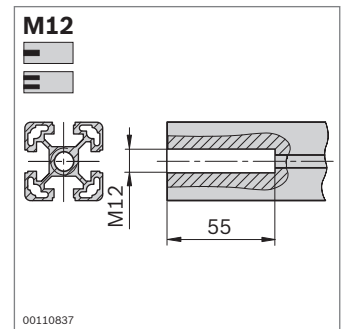
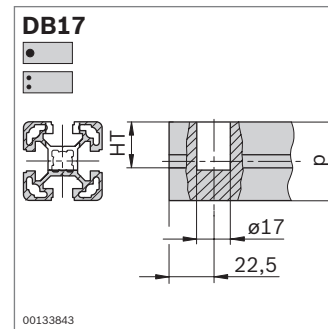
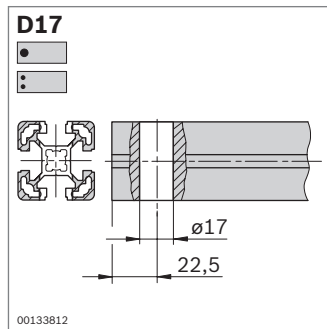
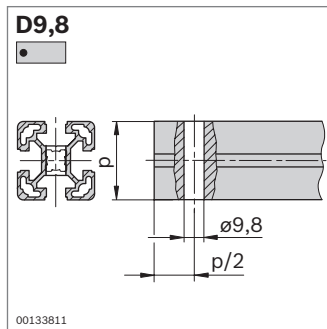
*) The following L-profiles have a "heavy" slot geometry:
45x90x90L; 45x90x90L 4N; 90x90L; 90x90L 4N; 90x90L 4NVS; 90x180L

Minimum profile lengths (mm) for Quick & Easy standard profile finishes on one or both sides

	-	M12	M16	D9.8	D17/DB17	F1
-	50	60	120	50	60	60
M12	60	110	180	90	90	110
M16	120	180	240	150	170	170
D9.8	50	90	150	80	70	90
D17/DB17	60	90	170	70	80	90
F1	60	110	170	90	90	80

For applications with high loads, we recommend especially stable profiles with 10 mm slots, e.g. for heavy work tables, fixtures, machine frames, transport shuttles, protective enclosures, and handling systems.

Due to its very sturdy design, this slot allows maximum strength connections.

Profile finishing


40x40L

A = 5,6 cm²

I_x = 9,1 cm⁴

I_y = 9,1 cm⁴

W_x = 4,5 cm³

W_y = 4,5 cm³

m = 1,5 kg/m

19199

Cap	Color	ESD	No.
40x40 (1x)	Signal gray	100	3 842 548 746
40x40 (1x)	Black	20	3 842 548 747

Material: PP

Cap with hole	Color	ESD	No.
40x40 (1x)	Signal gray	20	3 842 548 782
40x40 (1x)	Black	20	3 842 548 783

Material: PP

40x40L 0N

A = 6,3 cm²

I_x = 10,4 cm⁴

I_y = 10,4 cm⁴

W_x = 5,2 cm³

W_y = 5,2 cm³

m = 1,7 kg/m

19200

Cap: See 40x40

40x40L 1N

A = 6,1 cm²

I_x = 9,1 cm⁴

I_y = 9,1 cm⁴

W_x = 4,5 cm³

W_y = 4,5 cm³

m = 1,7 kg/m

19201

Cap: See 40x40

40x40L		L (mm)	No.
1 pc		50 ... 6000	3 842 993 120 / L
1 pc	M12	60 ... 6000	3 842 993 121 / L
1 pc	M12 M12	110 ... 6000	3 842 993 122 / L
1 pc	M12 D17	90 ... 6000	3 842 993 123 / L
1 pc	D17	50 ... 6000	3 842 993 124 / L
1 pc	D17 D17	80 ... 6000	3 842 993 125 / L
1 pc	D17 D17V	80 ... 6000	3 842 993 126 / L
1 pc	D9,8 D9,8	80 ... 6000	3 842 993 129 / L
20 pcs		6070	3 842 529 339
1 pc		6070	3 842 529 340

40x40L 0N		L (mm)	No.
20 pcs		6070	3 842 540 954

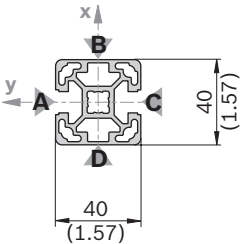
40x40L 1N		L (mm)	No.
1 pc		50 ... 6000	3 842 993 185 / L
1 pc	M12 M12	110 ... 6000	3 842 993 186 / L
20 pcs		6070	3 842 529 361
1 pc		6070	3 842 529 362

40x40L 2N

A = 6,0 cm²
I_x = 9,0 cm⁴
I_y = 10,3 cm⁴
W_x = 4,5 cm³
W_y = 5,2 cm³
m = 1,6 kg/m



19202



Cap: See 40x40

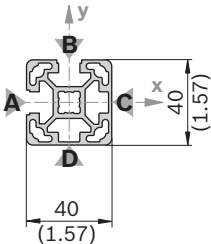
40x40L 2N	L (mm)	No.
1 pc	50 ... 6000	3 842 993 187 / L
1 pc M12	110 ... 6000	3 842 993 188 / L
20 pcs	6070	3 842 529 363
1 pc	6070	3 842 529 364

40x40L 2NVS

A = 6,0 cm²
I_x = 9,7 cm⁴
I_y = 9,7 cm⁴
W_x = 4,9 cm³
W_y = 4,9 cm³
m = 1,6 kg/m



19203



Cap: See 40x40

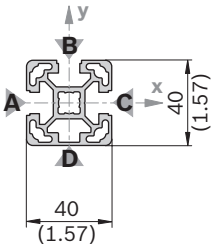
40x40L 2NVS	L (mm)	No.
1 pc	50 ... 6000	3 842 993 189 / L
1 pc M12	110 ... 6000	3 842 993 190 / L
20 pcs	6070	3 842 529 365
1 pc	6070	3 842 529 366

40x40L 3N

A = 5,8 cm²
I_x = 9,7 cm⁴
I_y = 9,0 cm⁴
W_x = 4,8 cm³
W_y = 4,5 cm³
m = 1,6 kg/m



19204



Cap: See 40x40

40x40L 3N	L (mm)	No.
1 pc	50 ... 6000	3 842 993 191 / L
1 pc M12	110 ... 6000	3 842 993 192 / L
20 pcs	6070	3 842 529 367
1 pc	6070	3 842 529 368

40x30°

A = 6,2 cm²

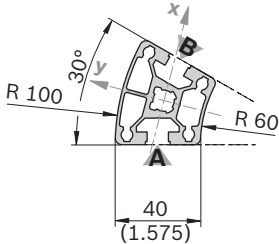
$I_x = 9,4 \text{ cm}^4$

$I_y = 11,8 \text{ cm}^4$

$W_x = 4,7 \text{ cm}^3$

$W_y = 5,9 \text{ cm}^3$

$m = 1,7 \text{ kg/m}$



10 10

40

19205

40x30°		L (mm)	No.
1 pc		50 ... 6000	3 842 993 195 / L
 12 pcs		6070	3 842 529 371

Cap	Color	ESD		No.
40x30° (1x)	Black		20	3 842 529 049
Material:		PA		

40x45°

A = 6,8 cm²

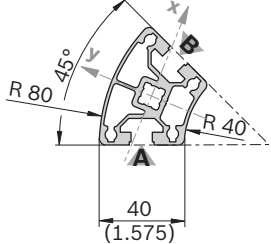
$I_x = 9,9 \text{ cm}^4$

$I_y = 16,6 \text{ cm}^4$

$W_x = 5,0 \text{ cm}^3$

$W_y = 8,3 \text{ cm}^3$

$m = 1,8 \text{ kg/m}$



10 10

40

19206

40x45°		L (mm)	No.
1 pc		50 ... 6000	3 842 993 197 / L
 12 pcs		6070	3 842 529 373

Cap	Color	ESD		No.
45x45° (1x)	Black		20	3 842 529 050
Material:		PA		

40x60°

A = 6,3 cm²

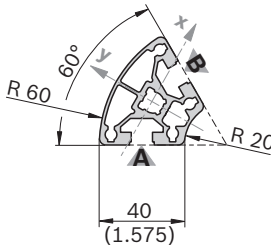
$I_x = 8,7 \text{ cm}^4$

$I_y = 13,1 \text{ cm}^4$

$W_x = 4,3 \text{ cm}^3$

$W_y = 6,5 \text{ cm}^3$

$m = 1,7 \text{ kg/m}$



10 10

40

19207

40x60°		L (mm)	No.
1 pc		50 ... 6000	3 842 993 198 / L
 12 pcs		6070	3 842 529 375

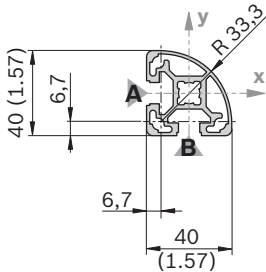
Cap	Color	ESD		No.
40x60° (1x)	Black		20	3 842 529 051
Material:		PA		

40x40L R

A = 5,0 cm²
I_x = 7,2 cm⁴
I_y = 7,2 cm⁴
W_x = 3,6 cm³
W_y = 3,6 cm³
m = 1,3 kg/m



19208



Cap	Color	ESD		No.
40x40 R (1x)	Signal gray		20	3 842 548 784
40x40 R (1x)	Black		20	3 842 548 785

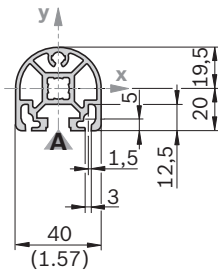
Material: PP

40x40 HR

A = 5,5 cm²
I_x = 8,1 cm⁴
I_y = 7,6 cm⁴
W_x = 4,0 cm³
W_y = 3,6 cm³
m = 1,5 kg/m



19209



Cap	Color	ESD		No.
40x40 HR (1x)	Signal gray		20	3 842 548 786
40x40 HR (1x)	Black		20	3 842 548 787

Material: PP

Cap with hole ¹⁾	Color	ESD		No.
40x40 HR (1x)	Signal gray		20	3 842 548 786
40x40 HR (1x)	Black		20	3 842 548 787

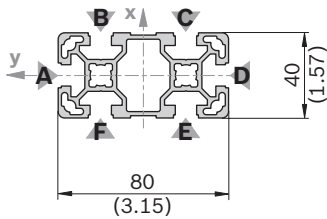
Material: PP

¹⁾ The cover cap is also suitable for use with a hole, which can be broken out

40x40L R	L (mm)	No.
1 pc	50 ... 6000	3 842 993 184 / L
20 pcs	6070	3 842 529 359
1 pc	6070	3 842 529 360

40x80L

A = 9,9 cm²
I_x = 63,4 cm⁴
I_y = 17,3 cm⁴
W_x = 15,9 cm³
W_y = 8,7 cm³
m = 2,7 kg/m



19210

Cover cap	Color	ESD	No.
40x80 (1x)	Signal gray	20	3 842 548 748
40x80 (1x)	Black	20	3 842 548 749

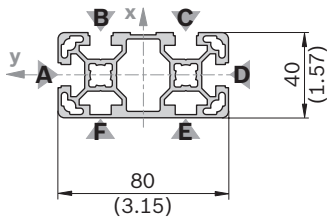
Material: PP

Cap with hole	Color	ESD	No.
40x80 (1x)	Signal gray	20	3 842 548 788
40x80 (1x)	Black	20	3 842 548 789

Material: PP

40x80L 4N

A = 10,4 cm²
I_x = 65,2 cm⁴
I_y = 19,1 cm⁴
W_x = 16,3 cm³
W_y = 9,9 cm³
m = 2,8 kg/m



19211

Cap: See 40x80

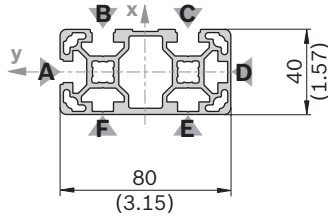
40x80L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 130 / L
1 pc M12	60 ... 6000	3 842 993 131 / L
1 pc M12 M12	110... 6000	3 842 993 132 / L
1 pc D17 D17	80 ... 6000	3 842 993 135 / L
1 pc D17 D17V	80 ... 6000	3 842 993 136 / L
1 pc D17V	60 ... 6000	3 842 993 137 / L
1 pc D17V D17V	80 ... 6000	3 842 993 138 / L
12 pcs	6070	3 842 529 341
1 pc	6070	3 842 529 342

Profile finishing: M12: In all central holes
D17: in slots B/F, C/E
D17V: in slots A/D

40x80L 4N	L (mm)	No.
1 pc	50 ... 6000	3 842 993 424 / L
12 pcs	6070	3 842 536 484
1 pc	6070	3 842 536 485

40x80L 3NVS

$A = 10,6 \text{ cm}^2$
 $I_x = 67,8 \text{ cm}^4$
 $I_y = 19,0 \text{ cm}^4$
 $W_x = 17,0 \text{ cm}^3$
 $W_y = 9,5 \text{ cm}^3$
 $m = 2,9 \text{ kg/m}$



19212

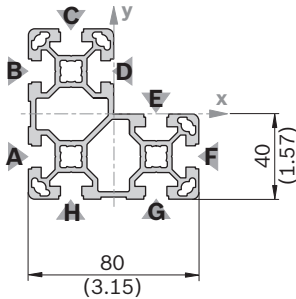
40x80L 3NVS		L (mm)	No.
1 pc		50 ... 6000	3 842 993 654 / L
12 pcs		6070	3 842 538 330
1 pc		6070	3 842 538 329

2

Cap: see 40x80

40x80x80L

$A = 15,4 \text{ cm}^2$
 $I_x = 96,6 \text{ cm}^4$
 $I_y = 96,6 \text{ cm}^4$
 $W_x = 24,2 \text{ cm}^3$
 $W_y = 24,2 \text{ cm}^3$
 $m = 4,2 \text{ kg/m}$



19213

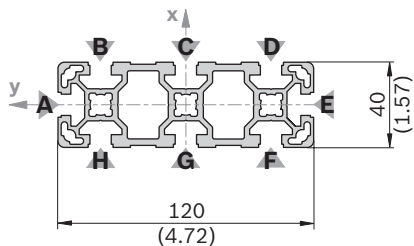
40x80x80L		L (mm)	No.
1 pc		50 ... 6000	3 842 993 193 / L
8 pcs		6070	3 842 537 827
1 pc		6070	3 842 529 370

Cap	Color	ESD	No.
40x80x80 (1x)	Signal gray	20	3 842 548 790
40x80x80 (1x)	Black	20	3 842 849 791

Material: PP

40x120L

$A = 15,5 \text{ cm}^2$
 $I_x = 203,2 \text{ cm}^4$
 $I_y = 27,8 \text{ cm}^4$
 $W_x = 33,9 \text{ cm}^3$
 $W_y = 13,9 \text{ cm}^3$
 $m = 4,2 \text{ kg/m}$



19214

40x120L		L (mm)	No.
1 pc		50 ... 6000	3 842 993 139 / L
1 pc M12		60 ... 6000	3 842 993 140 / L
1 pc M12		110 ... 6000	3 842 993 141 / L
1 pc D17		80 ... 6000	3 842 993 142 / L
1 pc D17V		90 ... 6000	3 842 993 225 / L
8 pcs		6070	3 842 537 824
1 pc		6070	3 842 529 344

Profile finishing:

M12: in all central holes
 D17: in slots B/H, C/G, D/F
 D17V: in slots A/E

Cap	Color	ESD	No.
40x40 (1x)	Signal gray	100	3 842 548 746
40x80 (1x)	Signal gray	20	3 842 548 748
40x40 (1x)	Black	20	3 842 548 747
40x80 (1x)	Black	20	3 842 548 749

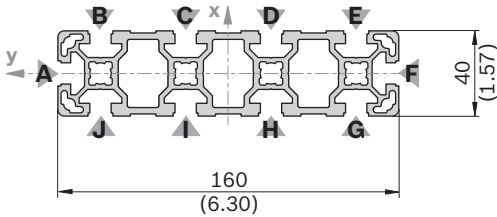
Material: PP

Notice:

For the 40x120L profile you require the following combination of cover caps: 1x 40x40 and 1x 40x80

40x160L

$A = 20,5 \text{ cm}^2$
 $I_x = 466,7 \text{ cm}^4$
 $I_y = 37,2 \text{ cm}^4$
 $W_x = 58,3 \text{ cm}^3$
 $W_y = 18,6 \text{ cm}^3$
 $m = 5,5 \text{ kg/m}$



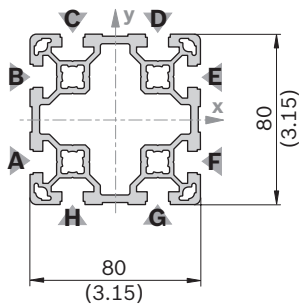
19215

Cap	Color	ESD		No.	
40x80 (2x)	Signal gray		20	3 842 548 748	
40x80 (2x)	Black		20	3 842 548 749	

Material: PP

80x80L

$A = 18,2 \text{ cm}^2$
 $I_x = 132,1 \text{ cm}^4$
 $I_y = 132,1 \text{ cm}^4$
 $W_x = 33,0 \text{ cm}^3$
 $W_y = 33,0 \text{ cm}^3$
 $m = 4,9 \text{ kg/m}$



19216

Cap	Color	ESD		No.
80x80 (1x)	Signal gray		20	3 842 548 750
80x80 (1x)	Black		20	3 842 548 751

Material: PP

40x160L

L (mm)	No.
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No.	
1	1. The first step in the process of developing a new product is to identify a market need.
2	2. The second step is to develop a prototype of the product.
3	3. The third step is to conduct market research to determine if there is a demand for the product.
4	4. The fourth step is to develop a business plan for the product.
5	5. The fifth step is to secure financing for the product.
6	6. The sixth step is to manufacture the product.
7	7. The seventh step is to distribute the product.
8	8. The eighth step is to promote the product.
9	9. The ninth step is to evaluate the product's performance.
10	10. The tenth step is to make any necessary adjustments to the product.

	1 pc		50 ... 6000	3 842 993 143 / L
	1 pc	M12 	60 ... 6000	3 842 993 144 / L
	1 pc	M12  M12	110 ... 6000	3 842 993 145 / L
	1 pc	D17  D17	80 ... 6000	3 842 993 146 / L
	6 pcs		6070	3 842 529 345
	1 pc		6070	3 842 529 346

Profile finishing:	M12: in all central holes D17: in slots B/J, C/I, D/H, E/G
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80x80L

L (mm)	No.
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No.	
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	1 pc		50 ... 6000	3 842 993 133 / L
	1 pc	M12 	60 ... 6000	3 842 993 134 / L
	1 pc	M12  M12	110 ... 6000	3 842 993 147 / L
	1 pc	M12  :D17	90 ... 6000	3 842 993 148 / L
	1 pc	D17 	60 ... 6000	3 842 993 149 / L
	1 pc	D17  :D17	80 ... 6000	3 842 993 150 / L
	1 pc	D17  :D17V	80 ... 6000	3 842 993 151 / L
	6 pcs		6070	3 842 529 347
	1 pc		6070	3 842 529 348

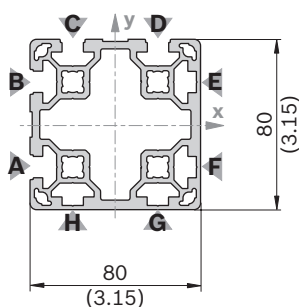
Profile finishing:	M12: in all central holes D17: in slots A/F, B/E D17V: in slots C/H, D/G
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80x80L 4NVS

$A = 19,3 \text{ cm}^2$
 $I_x = 142,5 \text{ cm}^4$
 $I_y = 142,5 \text{ cm}^4$
 $W_x = 35,6 \text{ cm}^3$
 $W_y = 35,6 \text{ cm}^3$
 $m = 5,2 \text{ kg/m}$



19416



80x80L 4NVS		L (mm)	No.
1 pc		50 ... 6000	3 842 993 658 / L
6 pcs		6070	3 842 538 334
1 pc		6070	3 842 538 333

2

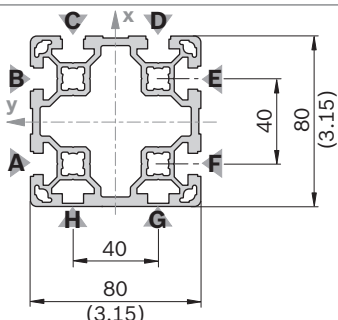
Cap: See 80x80

80x80L 6N

$A = 18,8 \text{ cm}^2$
 $I_x = 134,1 \text{ cm}^4$
 $I_y = 140,9 \text{ cm}^4$
 $W_x = 33,5 \text{ cm}^3$
 $W_y = 36,2 \text{ cm}^3$
 $m = 5,1 \text{ kg/m}$



19417



80x80L 6N		L (mm)	No.
1 pc		50 ... 6000	3 842 993 423 / L
6 pcs		6070	3 842 536 481
1 pc		6070	3 842 536 482

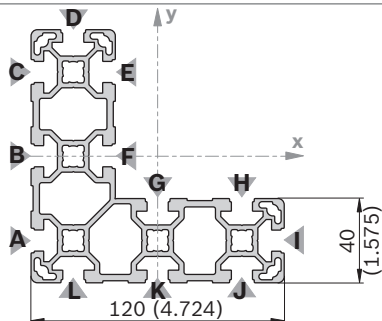
Cap: see 80x80

40x120x120L

$A = 24,6 \text{ cm}^2$
 $I_x = 318,0 \text{ cm}^4$
 $I_y = 318,0 \text{ cm}^4$
 $W_x = 42,2 \text{ cm}^3$
 $W_y = 42,2 \text{ cm}^3$
 $m = 6,7 \text{ kg/m}$



19418



40x120x120L		L (mm)	No.
1 pc		50 ... 6000	3 842 993 653 / L
4 pcs		6070	3 842 538 287

Cap	Color	ESD	No.
40x40 (5x)	Signal gray	100	3 842 548 746
40x80 (2x)	Signal gray	20	3 842 548 748
40x40 (1x)	Signal gray	100	3 842 548 746
40x40 (5x)	Black		20 3 842 548 747
40x80 (2x)	Black		20 3 842 548 749
40x40 (1x)	Black		20 3 842 548 747

Material: PP

Notice:

for the 40x120x120L profile you require the following combination of caps: 5x 40x40 or 2x 40x80 and 1x 40x40

80x120L

A = 25,6 cm²

I_x = 389,2 cm⁴

I_y = 192,8 cm⁴

W_x = 64,9 cm³

W_y = 48,2 cm³

m = 6,9 kg/m

10 10

140

19419

Cap	Color	ESD		No.
80x120 (1x)	Signal gray		20	3 842 548 792
80x120 (1x)	Black		20	3 842 548 793

Material: PP

80x120L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 201 / L
1 pc M12	60 ... 6000	3 842 993 202 / L
1 pc M12 M12	110 ... 6000	3 842 993 203 / L
1 pc D17 D17	80 ... 6000	3 842 993 204 / L
1 pc D17V D17V	90 ... 6000	3 842 993 229 / L
4 pcs	6070	3 842 537 828
1 pc	6070	3 842 529 380

Profile finishing:

M12: in all core holes
D17: in slots C/J, D/I, E/H
D17V: in slots A/G, B/F

80x160L

A = 32,9 cm²

I_x = 850,7 cm⁴

I_y = 253,4 cm⁴

W_x = 106,3 cm³

W_y = 63,4 cm³

m = 8,9 kg/m

10 10

140

19420

Cap	Color	ESD		No.
80x80 (2x)	Signal gray		20	3 842 548 750
80x80 (2x)	Black		20	3 842 548 751

Material: PP

80x160L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 127 / L
1 pc M12	60 ... 6000	3 842 993 128 / L
1 pc M12 M12	110 ... 6000	3 842 993 152 / L
1 pc M12 D17	90 ... 6000	3 842 993 153 / L
1 pc D17	60 ... 6000	3 842 993 154 / L
1 pc D17 D17	80 ... 6000	3 842 993 155 / L
1 pc D17V D17V	90 ... 6000	3 842 993 226 / L
3 pcs	6070	3 842 529 349
1 pc	6070	3 842 529 350

Profile finishing:

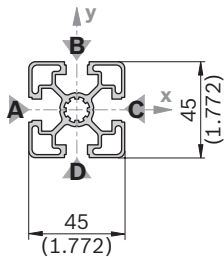
M12: in all core holes
D17: in slots C/L, D/K, E/J, F/I
D17V: in slots A/H, B/G

45x45L

A = 6,0 cm²
I_x = 11,7 cm⁴
I_y = 11,7 cm⁴
W_x = 5,2 cm³
W_y = 5,2 cm³
m = 1,6 kg/m



19421



Cap	Color	ESD	No.
45x45 (1x)	Signal gray		100 3 842 548 752
45x45 (1x)	Black		20 3 842 548 753

Material: PP

Cap with hole	Color	ESD	No.
45x45 (1x)	Signal gray		20 3 842 548 796
45x45 (1x)	Black		20 3 842 548 797

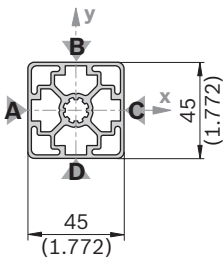
Material: PP

45x45L ON

A = 6,7 cm²
I_x = 13,5 cm⁴
I_y = 13,5 cm⁴
W_x = 6,0 cm³
W_y = 6,0 cm³
m = 1,8 kg/m



19422



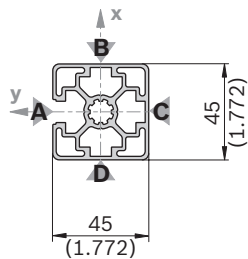
Cap: see 45x45

45x45L	L (mm)	No.
1 pc	50 ... 5600	3 842 992 425 / L
1 pc M12	60 ... 5600	3 842 992 426 / L
1 pc M12 M12	110 ... 5600	3 842 992 427 / L
1 pc M12 D17	90 ... 5600	3 842 992 960 / L
1 pc D9,8 D9,8	80 ... 5600	3 842 992 967 / L
1 pc D17	60 ... 5600	3 842 992 953 / L
1 pc D17 D17	80 ... 5600	3 842 992 954 / L
1 pc D17 D17V	80 ... 5600	3 842 992 956 / L
1 pc	6000	8 981 004 773
20 pcs	6000	8 981 004 744

45x45L ON	L (mm)	No.
20 pcs	6070	3 842 540 955

45x45L 1N

A = 6,5 cm²
I_x = 12,6 cm⁴
I_y = 13,5 cm⁴
W_x = 5,5 cm³
W_y = 6,0 cm³
m = 1,8 kg/m



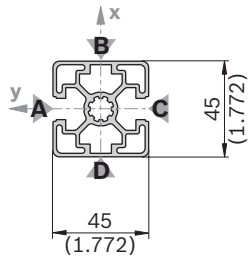
19423

Cap: see 45x45

45x45L 1N		L (mm)	No.
1 pc		50 ... 5600	3 842 992 401 / L
20 pcs		5600	3 842 506 956
1 pc		5600	3 842 506 960

45x45L 2N

A = 6,4 cm²
I_x = 11,6 cm⁴
I_y = 13,5 cm⁴
W_x = 5,2 cm³
W_y = 6,0 cm³
m = 1,7 kg/m



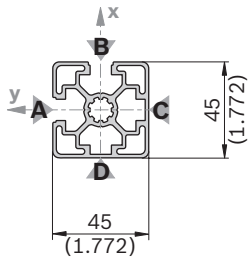
19424

Cap: see 45x45

45x45L 2N		L (mm)	No.
1 pc		50 ... 5600	3 842 992 403 / L
20 pcs		5600	3 842 506 958
1 pc		5600	3 842 506 962

45x45L 2NVS

A = 6,4 cm²
I_x = 12,6 cm⁴
I_y = 12,6 cm⁴
W_x = 5,6 cm³
W_y = 5,6 cm³
m = 1,7 kg/m



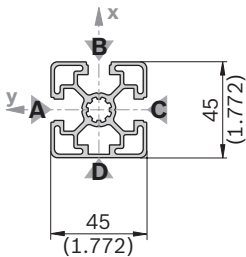
19425

Cap: see 45x45

45x45L 2NVS		L (mm)	No.
1 pc		50 ... 5600	3 842 992 402 / L
20 pcs		5600	3 842 506 957 
1 pc		5600	3 842 506 961 

45x45L 3N

A = 6,2 cm²
I_x = 12,6 cm⁴
I_y = 11,7 cm⁴
W_x = 5,4 cm³
W_y = 5,2 cm³
m = 1,7 kg/m



19426

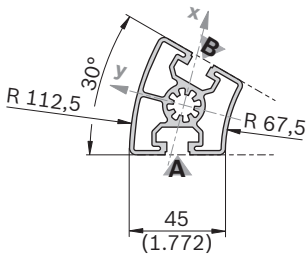
Cap: see 45x45

45x45L 3N		L (mm)	No.
1 pc		50 ... 5600	3 842 992 404 / L
20 pcs		5600	3 842 506 959
1 pc		5600	3 842 506 963

2

45x30°

A = 6,9 cm²
I_x = 12,7 cm⁴
I_y = 15,2 cm⁴
W_x = 5,0 cm³
W_y = 5,3 cm³
m = 1,9 kg/m



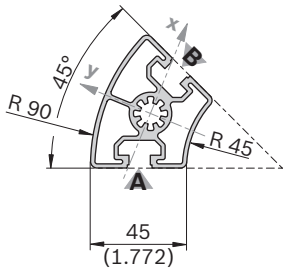
19427

45x30°		L (mm)	No.
1 pc		50 ... 5600	3 842 993 013 / L
20 pcs		5600	3 842 524 040
1 pc		5600	3 842 524 039

Cap	Color	ESD		No.
45x30° (1x)	Black		20	3 842 524 053
Material:		PA		

45x45°

A = 7,6 cm²
I_x = 13,4 cm⁴
I_y = 21,4 cm⁴
W_x = 5,2 cm³
W_y = 6,4 cm³
m = 2,0 kg/m



19428

45x45°		L (mm)	No.
1 pc		50 ... 5600	3 842 993 014 / L
20 pcs		5600	3 842 524 043
1 pc		5600	3 842 524 042

Cap	Color	ESD		No.
45x45° (1x)	Black		20	3 842 524 054
Material:		PA		

45x60°

A = 6,8 cm²

I_x = 11,4 cm⁴

I_y = 16,9 cm⁴

W_x = 4,4 cm³

W_y = 5,2 cm³

m = 1,8 kg/m

19429

Cap	Color	ESD		No.
45x60° (1x)	Black		20	3 842 524 055
Material:	PA			

45x45L R

A = 4,9 cm²

I_x = 8,6 cm⁴

I_y = 8,6 cm⁴

W_x = 5,0 cm³

W_y = 5,0 cm³

m = 1,3 kg/m

19430

Cap	Color	ESD		No.
45x45 R (1x)	Signal gray		20	3 842 548 800
45x45 R (1x)	Black		20	3 842 548 801
Material:	PP			

45x45 HR

A = 6,6 cm²

I_x = 11,0 cm⁴

I_y = 10,7 cm⁴

W_x = 4,4 cm³

W_y = 4,8 cm³

m = 1,8 kg/m

19431

Cap	Color	ESD		No.
45x45 HR (1x)	Signal gray		20	3 842 548 798
45x45 HR (1x)	Black		20	3 842 548 799
Material:	PP			

45x60°		L (mm)	No.
1 pc		50 ... 5600	3 842 993 015 / L
20 pcs		5600	3 842 524 046
1 pc		5600	3 842 524 045

45x45L R		L (mm)	No.
1 pc		50 ... 5600	3 842 992 897 / L
20 pcs		5600	3 842 517 200
1 pc		5600	3 842 517 199

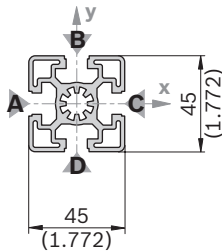
45x45 HR		L (mm)	No.
1 pc		50 ... 5600	3 842 992 945 / L
1 pc M12		60 ... 5600	3 842 993 001 / L
1 pc M12		110 ... 5600	3 842 992 999 / L
20 pcs		5600	3 842 525 505
1 pc		5600	3 842 525 504

45x45

A = 7,5 cm²
I_x = 13,8 cm⁴
I_y = 13,8 cm⁴
W_x = 6,1 cm³
W_y = 6,1 cm³
m = 2,0 kg/m



19432



Cap	Color	ESD		No.	
45x45 (1x)	Signal gray		100	3 842 548 752	
45x45 (1x)	Black		20	3 842 548 753	
Material:		PP			

Cap with hole	Color	ESD		No.	
45x45 (1x)	Signal gray		20	3 842 548 796	
45x45 (1x)	Black		20	3 842 548 797	
Material:		PP			

45x45	L (mm)	No.	
1 pc	50 ... 5600	3 842 990 520 / L	
1 pc M12	60 ... 5600	3 842 990 517 / L	
1 pc M12 M12	110 ... 5600	3 842 990 518 / L	
1 pc M12 M16	180 ... 5600	3 842 990 519 / L	
1 pc M12 D17	90 ... 5600	3 842 990 640 / L	
1 pc M16	120 ... 5600	3 842 990 521 / L	
1 pc M16 D17	170 ... 5600	3 842 990 642 / L	
1 pc D9,8 D9,8	70 ... 5600	3 842 992 969 / L	
1 pc D17	60 ... 5600	3 842 990 648 / L	
1 pc D17 D17	80 ... 5600	3 842 990 644 / L	
1 pc D17 D17V	80 ... 5600	3 842 990 646 / L	
1 pc	6000	3 842 507 125	
20 pcs	6000	3 842 315 100	

$A = 11,0 \text{ cm}^2$
 $I_x = 37,2 \text{ cm}^4$
 $I_y = 22,7 \text{ cm}^4$
 $W_x = 12,4 \text{ cm}^3$
 $W_y = 10,1 \text{ cm}^3$
 $m = 3,0 \text{ kg/m}$

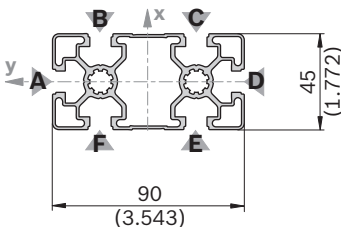


Cap with hole	Color	ESD		No.
45x60 (1x)	Signal gray		20	3 842 548 802
45x60 (1x)	Black		20	3 842 548 803
Material:	PP			

Profile finishing	D9.8, D17: in slots B/D D9.8, D17: in slots A/C LF: in slots A/C F1: in slot A
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45x90SL

A = 9,0 cm²
I_x = 73,4 cm⁴
I_y = 18,1 cm⁴
W_x = 16,3 cm³
W_y = 8,0 cm³
m = 2,4 kg/m



19434

Cap	Color	ESD	No.
45x90 (1x)	Signal gray		20 3 842 548 756
45x90 (1x)	Black		20 3 842 548 757

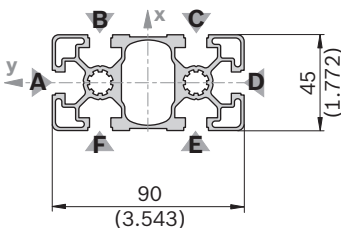
Material: PP

Cap with hole	Color	ESD	No.
45x90 (1x)	Signal gray		20 3 842 548 804
45x90 (1x)	Black		20 3 842 548 805

Material: PP

45x90L

A = 11,3 cm²
I_x = 82,0 cm⁴
I_y = 23,6 cm⁴
W_x = 18,2 cm³
W_y = 10,5 cm³
m = 3,0 kg/m



19435

Cap	Color	ESD	No.
45x90 (1x)	Signal gray		20 3 842 548 756
45x90 (1x)	Black		20 3 842 548 757

Material: PP

Cap with hole	Color	ESD	No.
45x90 (1x)	Signal gray		20 3 842 548 804
45x90 (1x)	Black		20 3 842 548 805

Material: PP

45x90SL	L (mm)	No.
1 pc	50 ... 6000	3 842 993 450 / L
12 pcs	6070	3 842 537 102
1 pc	6070	3 842 537 103

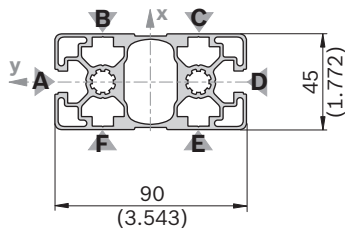
2

45x90L	L (mm)	No.
1 pc	50 ... 5600	3 842 992 432 / L
1 pc M12	60 ... 5600	3 842 992 453 / L
1 pc M12 M12	110 ... 5600	3 842 992 433 / L
1 pc D17 D17	80 ... 5600	3 842 992 437 / L
1 pc D17 D17V	80 ... 5600	3 842 992 436 / L
1 pc D17V	60 ... 5600	3 842 992 452 / L
1 pc D17V D17V	90 ... 5600	3 842 992 435 / L
1 pc LF LF	80 ... 5600	3 842 993 084 / L
12 pcs	5600	3 842 511 782
1 pc	5600	3 842 511 781

Profile finishing: M12: in all core holes
D17: in slots B/F, C/E
D17V: in slots A/D
LF: in slots A/D

45x90L 2N

A = 12,0 cm²
I_x = 85,6 cm⁴
I_y = 26,9 cm⁴
W_x = 38,1 cm³
W_y = 6,0 cm³
m = 3,2 kg/m



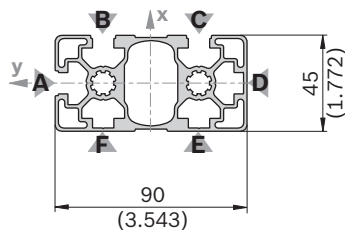
19436

Cap: see 45x90

45x90L 2N		L (mm)	No.
1 pc		50 ... 6000	3 842 993 644 / L
 12 pcs		6070	3 842 538 299
1 pc		6070	3 842 538 303

45x90L 3NVS

A = 11,8 cm²
I_x = 87,2 cm⁴
I_y = 25,2 cm⁴
W_x = 38,8 cm³
W_y = 5,6 cm³
m = 3,2 kg/m



19437

Cap: see 45x90

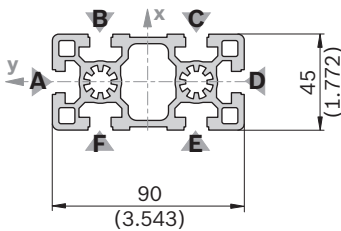
45x90L 3NVS		L (mm)	No.
1 pc		50 ... 6000	3 842 993 635 / L
 12 pcs		6070	3 842 538 298
1 pc		6070	3 842 538 302

45x90

A = 15,4 cm²
I_x = 124,6 cm⁴
I_y = 32,8 cm⁴
W_x = 27,7 cm³
W_y = 14,6 cm³
m = 4,2 kg/m



19438



Cap	Color	ESD		No.	
45x90 (1x)	Signal gray		20	3 842 548 756	
45x90 (1x)	Black		20	3 842 548 757	

Material: PP

Cap with hole	Color	ESD		No.	
45x90 (1x)	Signal gray		20	3 842 548 804	
45x90 (1x)	Black		20	3 842 548 805	

Material: PP

45x90	L (mm)	No.	
1 pc	50 ... 5600	3 842 990 300 / L	
1 pc M12	60 ... 5600	3 842 990 301 / L	
1 pc M12	110 ... 5600	3 842 990 302 / L	
1 pc M12	90 ... 5600	3 842 990 323 / L	
1 pc M12	90 ... 5600	3 842 990 305 / L	
1 pc M16	120 ... 5600	3 842 990 303 / L	
1 pc M16	240 ... 5600	3 842 990 304 / L	
1 pc M16	170 ... 5600	3 842 990 325 / L	
1 pc M16	170 ... 5600	3 842 990 307 / L	
1 pc D17	60 ... 5600	3 842 990 329 / L	
1 pc D17	80 ... 5600	3 842 990 313 / L	
1 pc D17	90 ... 5600	3 842 990 311 / L	
1 pc D17V	60 ... 5600	3 842 990 331 / L	
1 pc D17V	90 ... 5600	3 842 990 309 / L	
1 pc	6000	3 842 507 123	
12 pcs	6000	3 842 315 123	

Profile finishing: M12, M16: in all core holes
D17: in slots B/F, C/E
D17V: in slots A/D

45x180

A = 25,5 cm²

I_x = 766,7 cm⁴

I_y = 57,3 cm⁴

W_x = 85,2 cm³

W_y = 25,5 cm³

m = 6,9 kg/m

10 10

45

19439

Technical drawing of the 45x180 strut profile. The drawing shows a cross-section with a width of 180 mm (7.087 inches) and a height of 45 mm (1.772 inches). The profile has a central slot with a width of 13 mm. The distance between the center of the slot and the outer edge is 10 mm. The profile is labeled with points A through J. The material is PP (Polypropylene).

Cap	Color	ESD	No.
45x180 (1x)	Signal gray	20	3 842 548 794
45x180 (1x)	Black	20	3 842 548 795
Material:	PP		

45x180	L (mm)	No.
1 pc	50 ... 5600	3 842 990 335 / L
1 pc M12	60 ... 5600	3 842 990 336 / L
1 pc M12 M12	110 ... 5600	3 842 990 339 / L
1 pc D17 D17	80 ... 5600	3 842 990 342 / L
1 pc D17V D17V	90 ... 5600	3 842 990 344 / L
6 pcs	5600	3 842 509 187
1 pc	5600	3 842 509 201

Profile finishing:

 M12: in all core holes

 D17: in slots B/J, E/G

 D17V: in slots A/F

45x270

A = 61,9 cm²

I_x = 3962,0 cm⁴

I_y = 118,0 cm⁴

W_x = 300,2 cm³

W_y = 61,6 cm³

m = 16,7 kg/m

10 10

45

19440

Technical drawing of the 45x270 strut profile. The drawing shows a cross-section with a width of 270 mm (10.630 inches) and a height of 45 mm (1.772 inches). The profile has a central slot with a width of 13 mm. The distance between the center of the slot and the outer edge is 10 mm. The profile is labeled with points A through M. The material is PP (Polypropylene).

Cap	Color	ESD	No.
45x90 (3x)	Signal gray	20	3 842 548 756
45x90 (3x)	Black	20	3 842 548 757
Material:	PP		

45x270	L (mm)	No.
1 pc	50 ... 5600	3 842 992 927 / L
1 pc M12 M12	110 ... 5600	3 842 992 928 / L
2 pcs	5600	3 842 520 025
1 pc	5600	3 842 520 024

Profile finishing:

 M12: in core holes with C, F slots

45x90x90L

$A = 21,2 \text{ cm}^2$

$I_x = 152,1 \text{ cm}^4$

$I_y = 152,1 \text{ cm}^4$

$W_x = 19,1 \text{ cm}^3$

$W_y = 32,6 \text{ cm}^3$

$m = 5,7 \text{ kg/m}$

10

10

45

19441

Technical drawing of the 45x90x90L profile. It shows a cross-section with dimensions: width 90 (3.543), height 45 (1.772). Labels A-H indicate specific features: A (bottom left corner), B (top left corner), C (top center), D (top right corner), E (right side), F (bottom right corner), G (bottom center), and H (bottom left corner). A coordinate system with x and y axes is shown at the top center.

Cap	Color	ESD		No.
45x90x90 (1x)	Signal gray		20	3 842 548 806
45x90x90 (1x)	Black		20	3 842 548 807

Material: PP

Cap with hole ¹⁾	Color	ESD		No.
45x90x90 (1x)	Signal gray		20	3 842 548 806
45x90x90 (1x)	Black		20	3 842 548 807

Material: PP

¹⁾ The cover cap is also suitable for use with a hole, which can be broken out.

45x90x90L	L (mm)	No.
1 pc	50 ... 6000	3 842 992 387 / L
1 pc M12	60 ... 6000	3 842 992 388 / L
8 pcs	6070	3 842 537 823
1 pc	6070	3 842 537 846

Profile finishing: M12: in the central bore at the intersection of slots A and H

45x90x90L 4N

$A = 22,1 \text{ cm}^2$

$I_x = 160,8 \text{ cm}^4$

$I_y = 160,8 \text{ cm}^4$

$W_x = 30,6 \text{ cm}^3$

$W_y = 30,6 \text{ cm}^3$

$m = 5,95 \text{ kg/m}$

10

10

45

29432

Technical drawing of the 45x90x90L 4N profile. It shows a cross-section with dimensions: width 90 (3.543), height 45 (1.772). Labels A-H indicate specific features: A (bottom left corner), B (top left corner), C (top center), D (top right corner), E (right side), F (bottom right corner), G (bottom center), and H (bottom left corner). A coordinate system with x and y axes is shown at the top center.

Cap: see 45x90x90L

45x90x90L 4N	L (mm)	No.
8 pcs	6070	3 842 547 827

90x90SL

$A = 14,1 \text{ cm}^2$

$I_x = 130,2 \text{ cm}^4$

$I_y = 130,2 \text{ cm}^4$

$W_x = 28,9 \text{ cm}^3$

$W_y = 28,9 \text{ cm}^3$

$m = 3,8 \text{ kg/m}$

10

10

45

19442

Technical drawing of the 90x90SL profile. It shows a cross-section with dimensions: width 90 (3.543), height 90 (3.543). Labels A-H indicate specific features: A (bottom left corner), B (top left corner), C (top center), D (top right corner), E (right side), F (bottom right corner), G (bottom center), and H (bottom left corner). A coordinate system with x and y axes is shown at the top center.

Cap: see 90x90L

90x90SL	L (mm)	No.
1 pc	50 ... 6000	3 842 993 449 / L
6 pcs	6070	3 842 537 100
1 pc	6070	3 842 537 101

90x90L

A = 24,1 cm²

$I_x = 211,1 \text{ cm}^4$

$I_y = 211,1 \text{ cm}^4$

$W_x = 46,9 \text{ cm}^3$

$W_y = 46,9 \text{ cm}^3$

$m = 6,5 \text{ kg/m}$

10 10

45

19443

Diagram showing the cross-section of the 90x90L profile. The overall width is 90 mm (3.543 inches) and the height is 90 mm (3.543 inches). The profile has four main flanges labeled A, B, C, and D. The central holes are labeled E, F, G, and H. The x and y axes are indicated.

Cap	Color	ESD	No.
90x90L (1x)	Signal gray	20	3 842 548 758
90x90L (1x)	Black	20	3 842 548 759
Material: PP			

90x90L	L (mm)	No.
1 pc	50 ... 5600	3 842 992 415 / L
1 pc M12	60 ... 5600	3 842 992 416 / L
1 pc M12 M12	110 ... 5600	3 842 992 422 / L
1 pc M12 D17	90 ... 5600	3 842 992 423 / L
1 pc D17	60 ... 5600	3 842 992 417 / L
1 pc D17 D17	80 ... 5600	3 842 992 420 / L
1 pc D17 D17V	80 ... 5600	3 842 992 421 / L
1 pc LF LF	80 ... 5600	3 842 992 418 / L
1 pc LF M12	90 ... 5600	3 842 992 419 / L
6 pcs	5600	3 842 509 658
1 pc	5600	3 842 509 659

Profile finishing: M12: in all central holes
D17: in slots C/H, D/G
D17V: in slots A/F, B/E
LF: in slots C/H, D/G

90x90L 4N

A = 24,2 cm²

$I_x = 227,4 \text{ cm}^4$

$I_y = 214,7 \text{ cm}^4$

$W_x = 50,5 \text{ cm}^3$

$W_y = 47,7 \text{ cm}^3$

$m = 6,5 \text{ kg/m}$

10 10

45

19444

Diagram showing the cross-section of the 90x90L 4N profile. The overall width is 90 mm (3.543 inches) and the height is 90 mm (3.543 inches). The profile has four main flanges labeled A, B, C, and D. The central holes are labeled E, F, G, and H. The x and y axes are indicated.

90x90L 4N	L (mm)	No.
1 pc	50 ... 6000	3 842 993 628 / L
6 pcs	6070	3 842 538 297
1 pc	6070	3 842 538 301

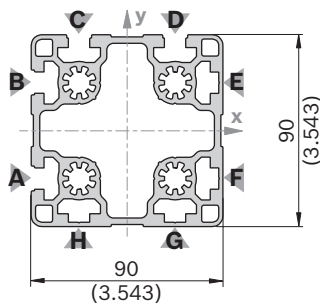
Cap: see 90x90L

90x90L 4NVS

A = 24,2 cm²
I_x = 220,9 cm⁴
I_y = 220,9 cm⁴
W_x = 49,2 cm³
W_y = 49,2 cm³
m = 6,5 kg/m



19445



Cap: see 90x90L

90x90L 4NVS		L (mm)	No.
1 pc		50 ... 6000	3 842 993 621 / L
6 pcs		6070	3 842 538 296
1 pc		6070	3 842 538 300

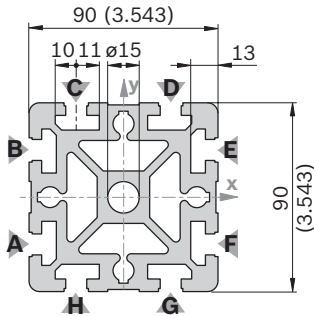
2

90x90

A = 38,4 cm²
I_x = 299,8 cm⁴
I_y = 299,8 cm⁴
W_x = 66,7 cm³
W_y = 66,7 cm³
m = 10,4 kg/m



19446



Cap	Color	ESD	No.
90x90 (1x)	Signal gray		20 3 842 548 760
90x90 (1x)	Black		20 3 842 548 761

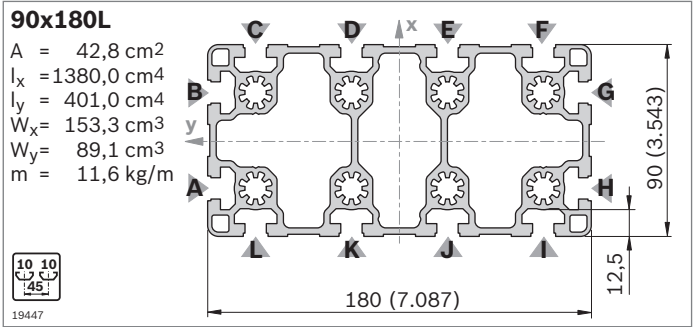
Material: PP

Cap with hole	Color	ESD	No.
90x90 (1x)	Signal gray		20 3 842 548 814
90x90 (1x)	Black		20 3 842 548 815

Material: PP

Note: A quick connector cannot be used

90x90		L (mm)	No.
1 pc		50 ... 5600	3 842 990 500 / L
1 pc	M16	120 ... 5600	3 842 990 501 / L
1 pc	M16 M16	240 ... 5600	3 842 990 502 / L
1 pc	M16 D17	170 ... 5600	3 842 992 961 / L
1 pc	M16/D22	60 ... 5600	3 842 992 373 / L
1 pc	M16/D22 M16/D22	120 ... 5600	3 842 993 083 / L
1 pc	D17	60 ... 5600	3 842 990 092 / L
1 pc	D17 D17	80 ... 5600	3 842 990 093 / L
1 pc	D17 D17V	80 ... 5600	3 842 990 094 / L
1 pc	LF LF	80 ... 5600	3 842 993 082 / L
1 pc	F2	60 ... 5600	3 842 990 505 / L
1 pc	F2 F2	110 ... 5600	3 842 990 507 / L
1 pc		6000	3 842 507 715
6 pcs		6000	3 842 315 125

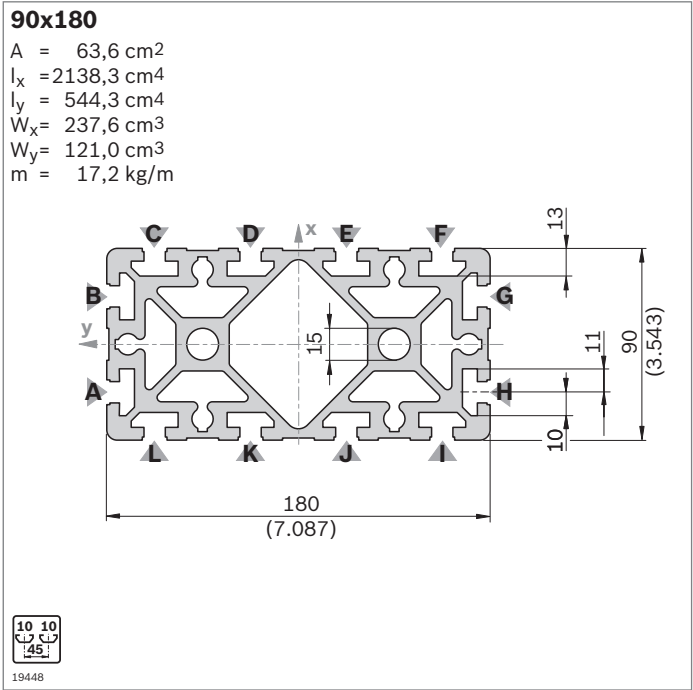


Cap	Color	ESD	No.
90x90L (2x)	Signal gray	20	3 842 548 758
90x90L (2x)	Black	20	3 842 548 759
Material: PP			

90x180L	L (mm)	No.
1 pc	50 ... 5600	3 842 992 857 / L
1 pc M12	60 ... 5600	3 842 992 858 / L
1 pc M12 M12	110 ... 5600	3 842 992 859 / L
1 pc M1 LF	90 ... 5600	3 842 992 860 / L
1 pc D17V D17V	90 ... 5600	3 842 992 864 / L
1 pc LF LF	80 ... 5600	3 842 992 861 / L
3 pcs	5600	3 842 516 015
1 pc	5600	3 842 516 014

Profile finishing:

M12: in all core holes
D17V: in slots A/H, B/G
LF: in slots A/H, B/G



90x180	L (mm)	No.
1 pc	50 ... 5600	3 842 990 416 / L
1 pc M16	120 ... 5600	3 842 990 417 / L
1 pc M16 M16	240 ... 5600	3 842 990 418 / L
1 pc M16 F2	170 ... 5600	3 842 990 419 / L
1 pc D17V D17V	90 ... 5600	3 842 992 378 / L
1 pc LF LF	80 ... 5600	3 842 992 898 / L
1 pc LF-S LF-S	80 ... 5600	3 842 993 081 / L
1 pc F2 F2	110 ... 5600	3 842 990 421 / L
3 pcs	5600	3 842 509 188
1 pc	5600	3 842 509 203

Profile finishing:

M16: in all core holes
D17V: in slots A/H, B/G
LF: in slots A/H, B/G
LF-S: in slots D/K, E/J

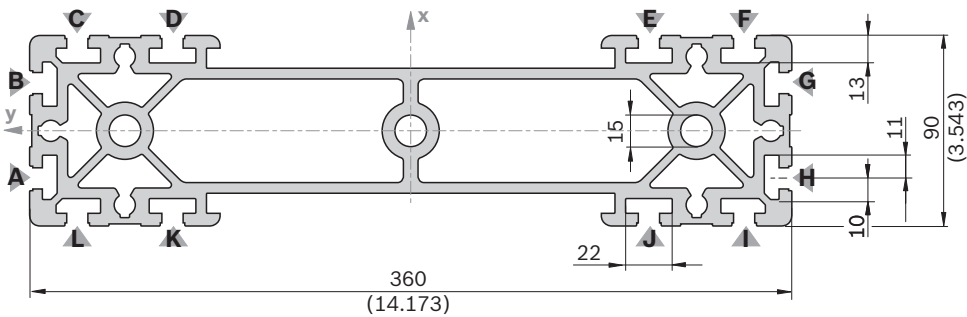
Cap	Color	ESD	No.
90x90 (2x)	Signal gray	20	3 842 548 760
90x90 (2x)	Black	20	3 842 548 761
Material: PP			
Cap with hole	Color	ESD	No.
90x90 (2x)	Signal gray	20	3 842 548 814
90x90 (2x)	Black	20	3 842 548 815
Material: PP			

90x360

A = 90,2 cm²
I_x = 14065,0 cm⁴
I_y = 710,0 cm⁴
W_x = 781,4 cm³
W_y = 157,7 cm³
m = 24,4 kg/m



19449



Cap	Color	ESD	No.
90x90 (2x)	Signal gray		20 3 842 548 760
90x90 (2x)	Black		20 3 842 548 761

Material: PP

Cap with hole	Color	ESD	No.
90x90 (2x)	Signal gray		20 3 842 548 814
90x90 (2x)	Black		20 3 842 548 815

Material: PP

Note: A quick connector cannot be used

90x360	L (mm)	No.
	50 ... 6000	3 842 993 434
M16 M16	240 ... 6000	3 842 993 435 / L
F2 F2	110 ... 6000	3 842 993 436 / L

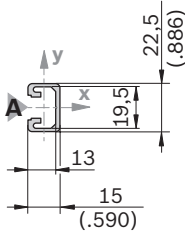
Profile finishing: M16: in all core holes

15x22,5

A = 1,3 cm²
I_x = 0,8 cm⁴
I_y = 0,3 cm⁴
W_x = 0,9 cm³
W_y = 0,6 cm³
m = 0,3 kg/m



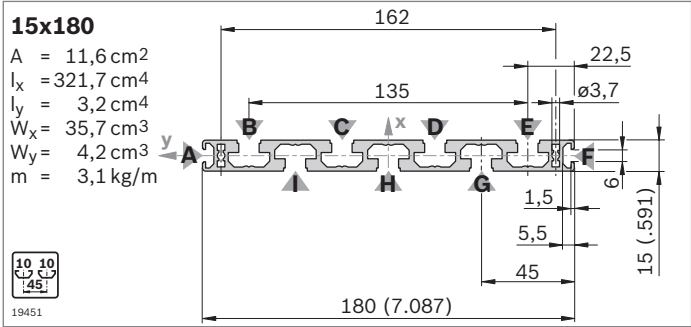
19450



15x22.5	L (mm)	No.
1 pc	50 ... 3000	3 842 992 473 / L
1 pc D17	60 ... 3000	3 842 992 474 / L
1 pc D17 D17	80 ... 3000	3 842 992 475 / L
10 pcs	2000	3 842 513 576
1 pc	2000	3 842 513 577

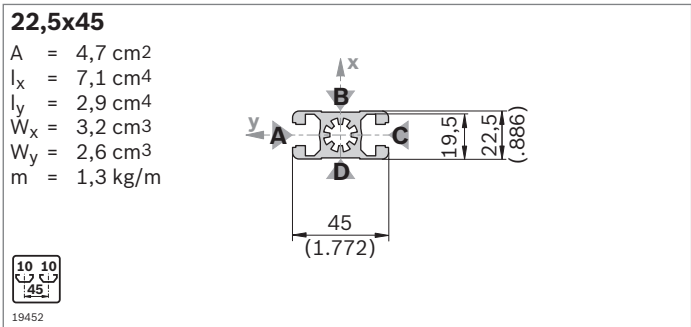
Cap	Color	ESD	No.
15x22.5 (1x)	Signal gray		20 3 842 548 816
15x22.5 (1x)	Black		20 3 842 548 817

Material: PP



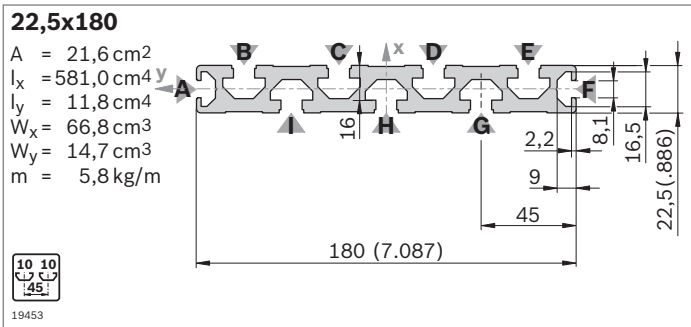
Cap	Color	ESD	No.
15x180 (1x)	Signal gray		20 3 842 548 772
15x180 (1x)	Black		20 3 842 548 773
Material:		PP	

15x180	L (mm)	No.
1 pc	50 ... 5600	3 842 993 079 / L
6 pcs	5600	3 842 526 821
1 pc	5600	3 842 526 820



Cap	Color	ESD	No.
22.5x45 (1x)	Signal gray		20 3 842 548 830
22.5x45 (1x)	Black		20 3 842 548 831
Material:		PP	

22.5x45	L (mm)	No.
1 pc	50 ... 6000	3 842 990 292 / L
1 pc M12	60 ... 6000	3 842 990 087 / L
1 pc M12 M12	110 ... 6000	3 842 990 090 / L
1 pc D17V D17V	80 ... 6000	3 842 990 091 / L
24 pcs	6070	3 842 537 812
1 pc	6070	3 842 502 695



Cap	Color	ESD	No.
22.5x180 (1x)	Signal gray		20 3 842 548 770
22.5x180 (1x)	Black		20 3 842 548 771
Material:		PP	

22.5x180	L (mm)	No.
1 pc	50 ... 5600	3 842 990 345 / L
1 pc D28	60 ... 5600	3 842 990 346 / L
1 pc D28 D28	110 ... 5600	3 842 990 347 / L
6 pcs	5600	3 842 509 179
1 pc	5600	3 842 509 206

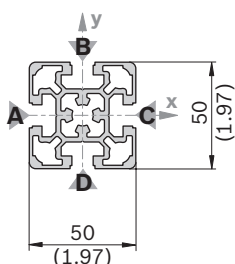
Profile finishing: D28: in slots G, I

50x50L

$A = 9,3 \text{ cm}^2$
 $I_x = 21,2 \text{ cm}^4$
 $I_y = 21,2 \text{ cm}^4$
 $W_x = 8,5 \text{ cm}^3$
 $W_y = 8,5 \text{ cm}^3$
 $m = 2,5 \text{ kg/m}$



19454



Cap	Color	ESD	No.
50x50 (1x)	Signal gray		20 3 842 548 820
50x50 (1x)	Black		20 3 842 548 821

Material: PP

Cap with hole	Color	ESD	No.
50x50 (1x)	Signal gray		20 3 842 548 822
50x50 (1x)	Black		20 3 842 548 823

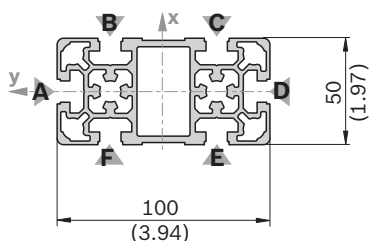
Material: PP

50x100L

$A = 17,2 \text{ cm}^2$
 $I_x = 162,8 \text{ cm}^4$
 $I_y = 42,6 \text{ cm}^4$
 $W_x = 32,6 \text{ cm}^3$
 $W_y = 17,0 \text{ cm}^3$
 $m = 4,6 \text{ kg/m}$



19455



Cap	Color	ESD	No.
50x50 (2x)	Signal gray		20 3 842 548 820
50x50 (2x)	Black		20 3 842 548 821

Material: PP

Cap with hole	Color	ESD	No.
50x50 (2x)	Signal gray		20 3 842 548 822
50x50 (2x)	Black		20 3 842 548 823

Material: PP

50x50L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 156 / L
1 pc M12	60 ... 6000	3 842 993 157 / L
1 pc M12 M12	110 ... 6000	3 842 993 158 / L
1 pc M12 D17	90 ... 6000	3 842 993 159 / L
1 pc D9,8 D9,8	80 ... 6000	3 842 993 164 / L
1 pc D17	60 ... 6000	3 842 993 160 / L
1 pc D17 D17	80 ... 6000	3 842 993 161 / L
1 pc D17 D17V	80 ... 6000	3 842 993 162 / L
20 pcs	6070	3 842 529 351
1 pc	6070	3 842 529 352

50x100L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 163 / L
1 pc M12	60 ... 6000	3 842 993 165 / L
1 pc M12 M12	110 ... 6000	3 842 993 166 / L
1 pc D17 D17	90 ... 6000	3 842 993 167 / L
1 pc D17 D17V	80 ... 6000	3 842 993 168 / L
1 pc D17V	60 ... 6000	3 842 993 169 / L
1 pc D17V D17V	90 ... 6000	3 842 993 170 / L
10 pcs	6070	3 842 537 825
1 pc	6070	3 842 529 354

Profile finishing:

- M12: in all core holes
- D17: in slots B/F, C/E
- D17V: in slot A/D

50x150L

A = 25,8 cm²
I_x = 540,0 cm⁴
I_y = 64,2 cm⁴
W_x = 72,0 cm³
W_y = 25,7 cm³
m = 6,9 kg/m

10 10

150

19456

Cap	Color	ESD		No.
50x150 (1x)	Signal gray		20	3 842 548 818
50x150 (1x)	Black		20	3 842 548 819

Material: PP

50x150L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 196 / L
1 pc M12	60 ... 6000	3 842 993 194 / L
1 pc M12 M12	110 ... 6000	3 842 993 199 / L
1 pc D17 D17	80 ... 6000	3 842 993 200 / L
1 pc D17V D17V	90 ... 6000	3 842 993 228 / L
4 pcs	6070	3 842 537 826
1 pc	6070	3 842 529 378

Profile finishing:

M12: in all core holes
D17: in slots B/H, C/G, D/F
D17V: in slots A/E

100x100L

A = 29,9 cm²
I_x = 318,3 cm⁴
I_y = 318,3 cm⁴
W_x = 63,7 cm³
W_y = 63,7 cm³
m = 8,1 kg/m

10 10

100

19457

Cap	Color	ESD		No.
100x100 (1x)	Signal gray		20	3 842 548 824
100x100 (1x)	Black		20	3 842 548 825

Material: PP

100x100L	L (mm)	No.
1 pc	50 ... 6000	3 842 993 171 / L
1 pc M12	60 ... 6000	3 842 993 172 / L
1 pc M12 M12	110 ... 6000	3 842 993 173 / L
1 pc M12 D17	90 ... 6000	3 842 993 174 / L
1 pc D17	60 ... 6000	3 842 993 175 / L
1 pc D17 D17	80 ... 6000	3 842 993 176 / L
1 pc D17 D17V	80 ... 6000	3 842 993 177 / L
6 pcs	6070	3 842 529 355
1 pc	6070	3 842 529 356

Profile finishing:

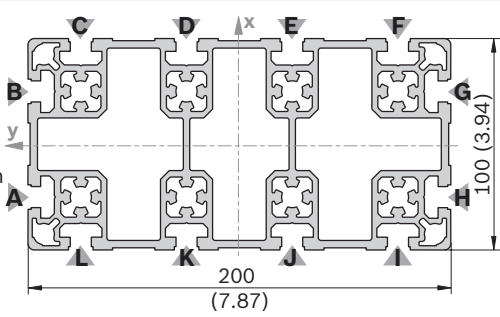
M12: in all core holes
D17: in slots C/H, D/G
D17V: in slots A/F, B/E

100x200L

$A = 54,0 \text{ cm}^2$
 $I_x = 2133,1 \text{ cm}^4$
 $I_y = 602,1 \text{ cm}^4$
 $W_x = 213,3 \text{ cm}^3$
 $W_y = 120,4 \text{ cm}^3$
 $m = 14,6 \text{ kg/m}$



19458



Cap	Color	ESD		No.
100x100 (2x)	Signal gray		20	3 842 548 824
100x100 (2x)	Black		20	3 842 548 825

Material: PP

100x200L		L (mm)	No.
1 pc		50 ... 6000	3 842 993 178 / L
1 pc	M12	60 ... 6000	3 842 993 179 / L
1 pc	M12 M12	110 ... 6000	3 842 993 180 / L
1 pc	M12 D17	90 ... 6000	3 842 993 181 / L
1 pc	D17	60 ... 6000	3 842 993 182 / L
1 pc	D17 D17	80 ... 6000	3 842 993 183 / L
1 pc	D17V	90 ... 6000	3 842 993 227 / L
3 pcs		6070	3 842 529 357
1 pc		6070	3 842 529 358

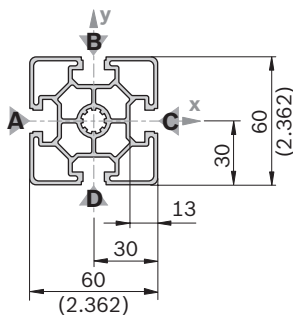
Profile finishing: M12: in all core holes
D17: in slots C/L, D/K, E/J, F/I
D17V: in slots A/H, B/G

60x60L

$A = 9,6 \text{ cm}^2$
 $I_x = 32,4 \text{ cm}^4$
 $I_y = 32,4 \text{ cm}^4$
 $W_x = 10,8 \text{ cm}^3$
 $W_y = 10,8 \text{ cm}^3$
 $m = 2,6 \text{ kg/m}$



19459



Cap	Color	ESD		No.
60x60 (1x)	Signal gray		100	3 842 548 808
60x60 (1x)	Black		100	3 842 548 809

Material: PP

Cap with hole	Color	ESD		No.
60x60 (1x)	Signal gray		20	3 842 548 810
60x60 (1x)	Black		20	3 842 548 811

Material: PP

60x60L		L (mm)	No.
1 pc		50 ... 5600	3 842 992 443 / L
1 pc	M12	60 ... 5600	3 842 992 444 / L
1 pc	M12 M12	110 ... 5600	3 842 992 445 / L
1 pc	M12 D17	90 ... 5600	3 842 992 446 / L
1 pc	D17	60 ... 5600	3 842 992 449 / L
1 pc	D17 D17	80 ... 5600	3 842 992 447 / L
1 pc	D17 D17V	80 ... 5600	3 842 992 448 / L
20 pcs		5600	3 842 511 872
1 pc		5600	3 842 511 871

60x60

A = 14,4 cm²

$I_x = 52,2 \text{ cm}^4$

$I_y = 52,2 \text{ cm}^4$

$W_x = 17,4 \text{ cm}^3$

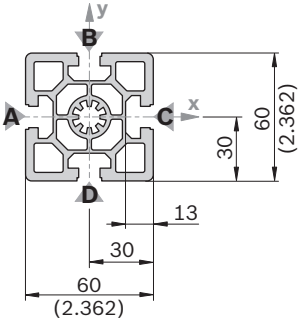
$W_y = 17,4 \text{ cm}^3$

m = 3,9 kg/m

10 10

160

19460



Cap	Color	ESD		No.
60x60 (1x)	Signal gray		100	3 842 548 808
60x60 (1x)	Black		100	3 842 548 809
Material:		PP		

Cap with hole	Color	ESD		No.
60x60 (1x)	Signal gray		20	3 842 548 810
60x60 (1x)	Black		20	3 842 548 811
Material:		PP		

60x90

A = 25,8 cm²

$I_x = 214,2 \text{ cm}^4$

$I_y = 90,5 \text{ cm}^4$

$W_x = 47,6 \text{ cm}^3$

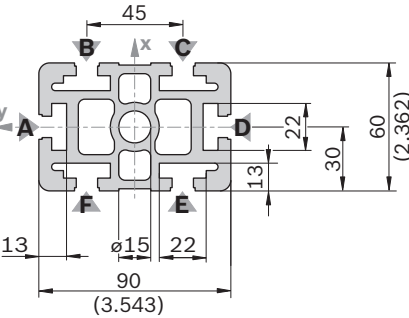
$W_y = 30,2 \text{ cm}^3$

m = 7,0 kg/m

10 10

160

19461



Cap	Color	ESD		No.
60x90 (1x)	Signal gray		20	3 842 548 812
60x90 (1x)	Black		20	3 842 548 813
Material:		PP		

Cap with hole	Color	ESD		No.
60x90 (1x)	Black		20	3 842 514 663
Material:		PA		

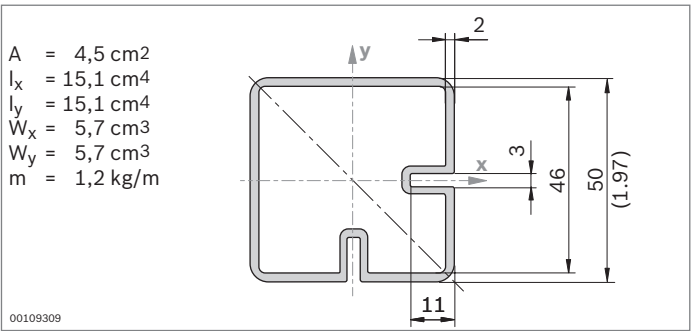
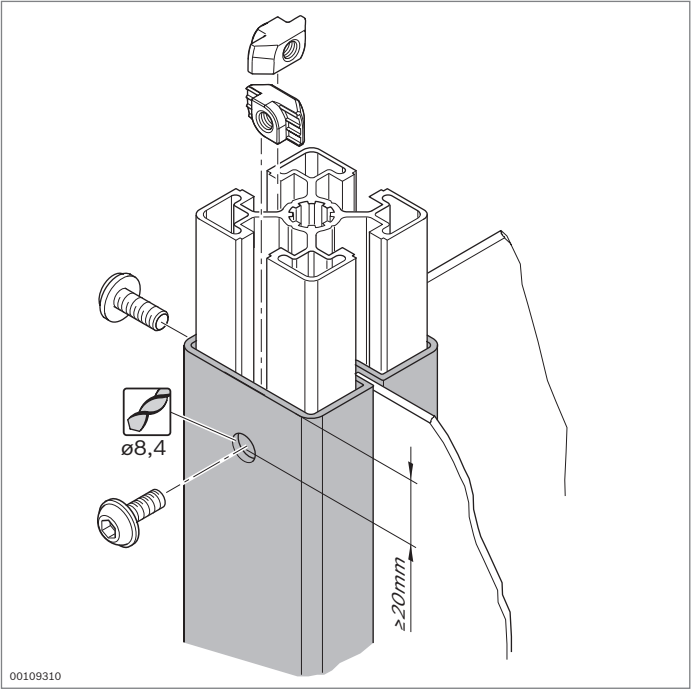
Note: A quick connector cannot be used

60x60	L (mm)	No.
1 pc 	50 ... 5600	3 842 990 350 / L
1 pc M12 	60 ... 5600	3 842 990 351 / L
1 pc M12  M12	110 ... 5600	3 842 990 353 / L
1 pc M12  M16	180 ... 5600	3 842 990 354 / L
1 pc M12  D17	90 ... 5600	3 842 990 355 / L
1 pc M16 	120 ... 5600	3 842 990 352 / L
1 pc M16  D17	170 ... 5600	3 842 990 373 / L
1 pc D17 	50 ... 5600	3 842 990 370 / L
1 pc D17  D17	80 ... 5600	3 842 990 357 / L
1 pc D17  D17V	80 ... 5600	3 842 990 359 / L
1 pc 	6000	3 842 507 716 
 20 pcs 	6000	3 842 315 126 

60x90	L (mm)	No.
1 pc 	50 ... 5600	3 842 990 450 / ...
1 pc M16 	120 ... 5600	3 842 990 453 / ...
1 pc M16  M16	240 ... 5600	3 842 990 454 / ...
1 pc M16  D17	170 ... 5600	3 842 992 962 / ...
1 pc M16  D17V	170 ... 5600	3 842 992 963 / ...
1 pc M16  F2	170 ... 5600	3 842 990 472 / ...
1 pc D17  D17	80 ... 5600	3 842 990 097 / ...
1 pc D17  D17V	80 ... 5600	3 842 990 099 / ...
1 pc D17V  D17V	90 ... 5600	3 842 990 098 / ...
1 pc F1  F1	110 ... 5600	3 842 990 464 / ...
1 pc F1  F1V	110 ... 5600	3 842 990 481 / ...
1 pc F2  F2	110 ... 5600	3 842 990 478 / ...
1 pc 	6000	3 842 507 124 
 10 pcs 	6000	3 842 315 124 

Profile finishing: D17: in slots B/F, C/E
D17V: in slots A/D

Bosch Rexroth AG, R999001283 (2016-03)



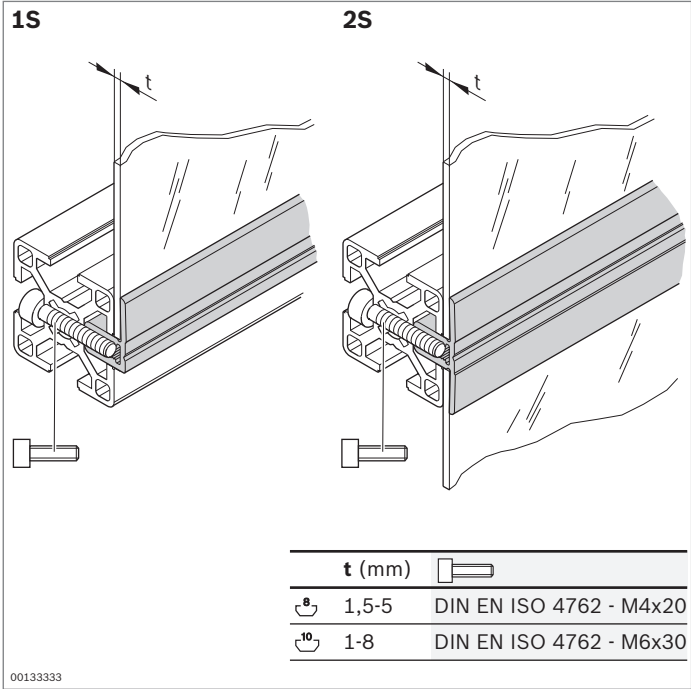
Rectangular tube



- For constructing manually height-adjustable frames
- Cutouts for holding surface elements
- Profile finishing: hole for screw

Required accessories:
fastening material

Rectangular tube		L (mm)	No.
1 pc		50 ... 5600	3 842 992 913 / L
6 pcs		5600	3 842 537 817
1 pc		5600	3 842 537 847



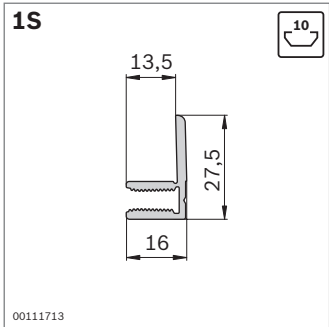
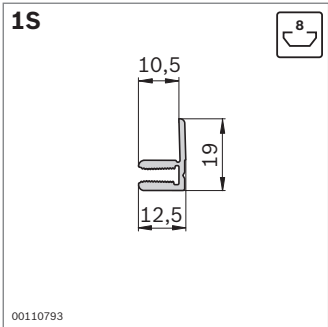
Clamping profile



- For simple fastening of panes, surface elements, or grilles on strut profiles
- For subsequent installation in closed frame constructions
- For surface elements with varying thicknesses
- Profile finishing: through-hole for mounting screw

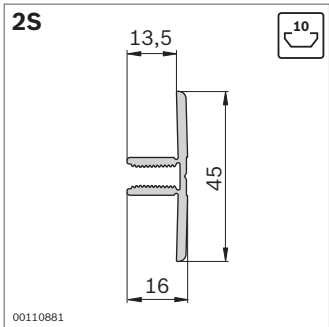
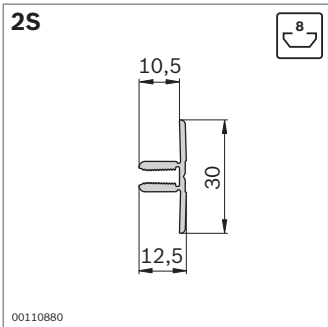
Required accessories:

- Cylinder head bolt DIN EN ISO 4762 – M4x20 (8 mm slot)
- Cylinder head bolt DIN EN ISO 4762 – M6x30 (10 mm slot)



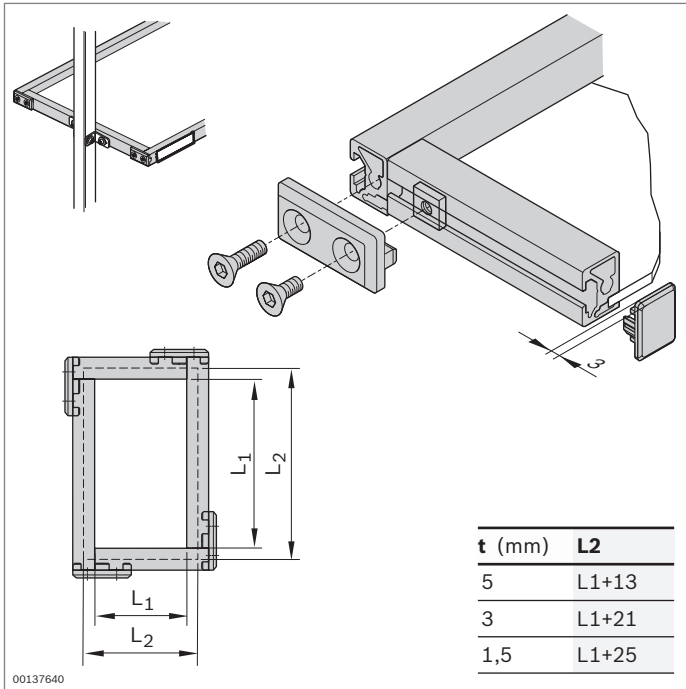
Clamping profile 1S		Slot	L (mm)	No.
1 pc		8	50 ... 3000	3 842 993 017 / L
10 pcs		8	3000	3 842 524 058
1 pc		10	50 ... 3000	3 842 993 019 / L
10 pcs		10	3000	3 842 524 064

Material: Aluminum, anodized



Clamping profile 2S		Slot	L (mm)	No.
1 pc		8	50 ... 3000	3 842 993 018 / L
10 pcs		8	3000	3 842 524 061
1 pc		10	50 ... 3000	3 842 993 020 / L
10 pcs		10	3000	3 842 524 067

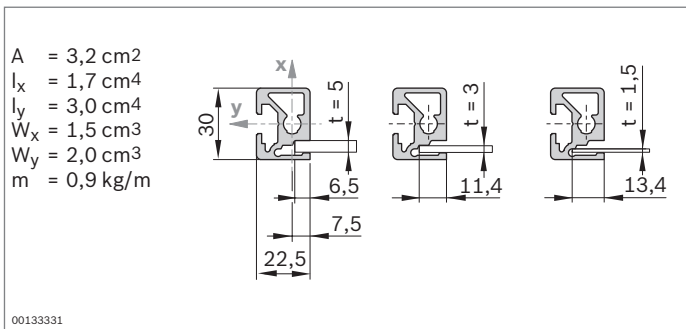
Material: Aluminum, anodized

**Frame profile 22.5x30**

- For inexpensive construction of tablets and material shelves
- Surface elements are mounted under tension so that they do not rattle

Accessories, optional:

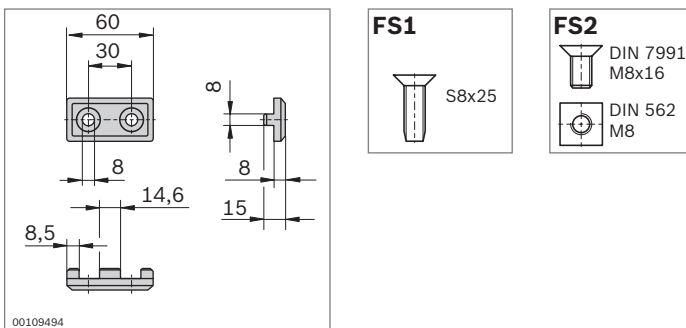
- Bracket set M6 (p. 3-30)
- Swivel fastening (p. 4-11)
- Lettering clip for 8 mm slot (p. 2-88)
- Plate (p. 2-64)



Frame profile 22.5x30	Slot	L (mm)	No.
1 pc	8	50 ... 5600	3 842 992 493 / L
20 pcs	8	5600	3 842 515 229
1 pc	8	5600	3 842 515 228

Material: Aluminum, anodized

Cap	Color	ESD	No.
22.5x30	Black		20 3 842 516 720

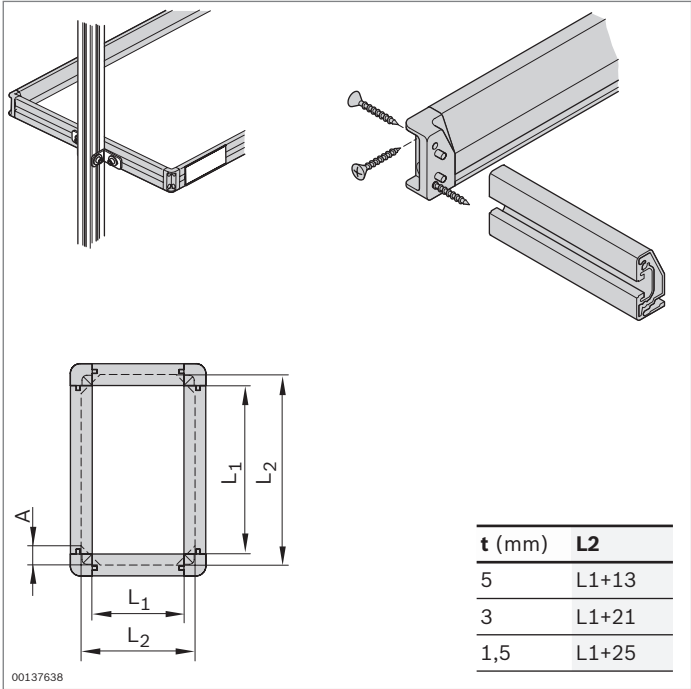
**Corner piece for frame profile 22.5x30**

- For perpendicular connections between two frame profiles 22.5x30
- Profile finishing: not required

Corner piece	ESD	No.	FS
	20	3 842 535 661	FS1, FS2

Material: PA; black

Scope of delivery: Incl. fastening material (FS)



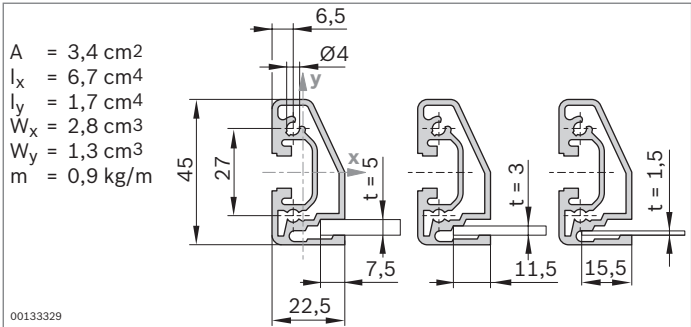
Frame profile 22.5x45



- For inexpensive construction of tablets and material shelves
- Surface elements are mounted under tension so that they do not rattle

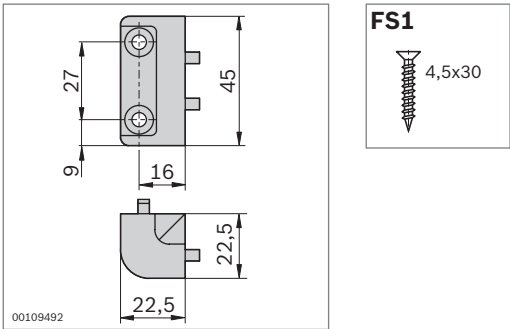
Accessories, optional:

- Bracket set (p. 3-32)
- Swivel fastening (p. 4-11)
- Lettering clip for 10 mm slot (p. 2-88)
- Plate (p. 2-64)



Frame profile 22.5x45	Slot	L (mm)	No.
1 pc	10	50 ... 5600	3 842 992 411 / L
20 pcs	10	5600	3 842 508 102
1 pc	10	5600	3 842 508 103

Material: Aluminum, anodized

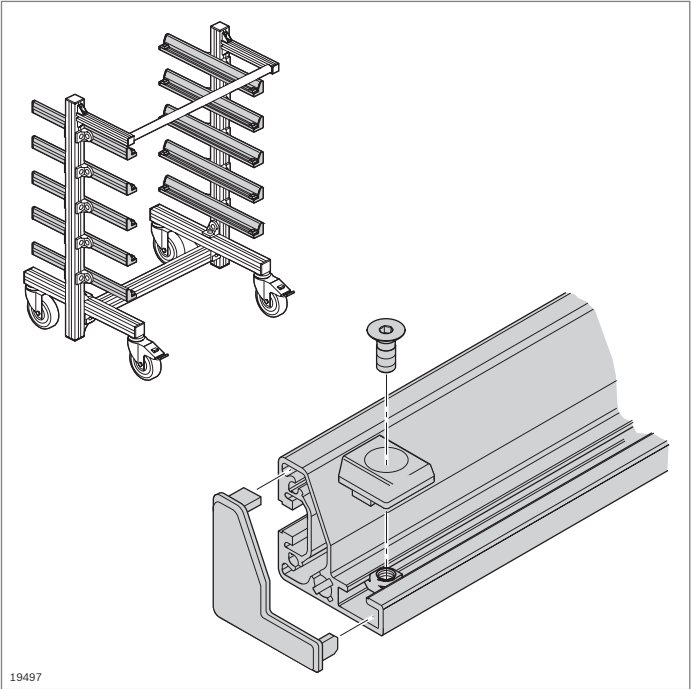


Corner piece for frame profile 22.5x45

- For perpendicular connections of two frame profiles 22.5x45
- Profile machining: not required

Corner bracket	ESD	No.	FS
	20	3 842 535 637	4xFS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

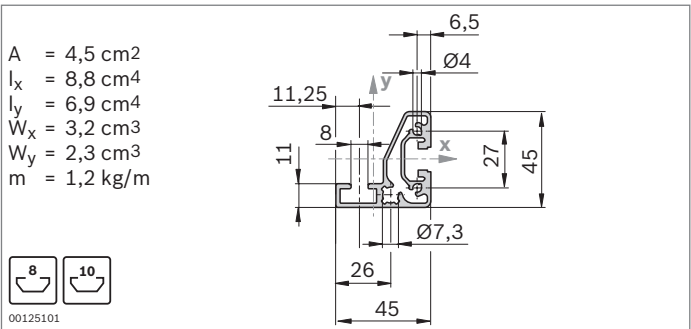


Angle profile



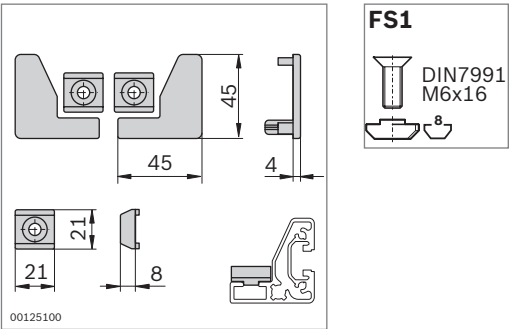
- For supporting containers, plates, or workpiece pallets in flow racks, material shuttles, or hopper stackers

Accessories:
Bracket R40x43 (p. 3-31)



Angle profile		L (mm)	No.
1 pc		50 ... 5600	3 842 992 412 / L
20 pcs		5600	3 842 508 104
1 pc		5600	3 842 508 105

Material: Aluminum, anodized

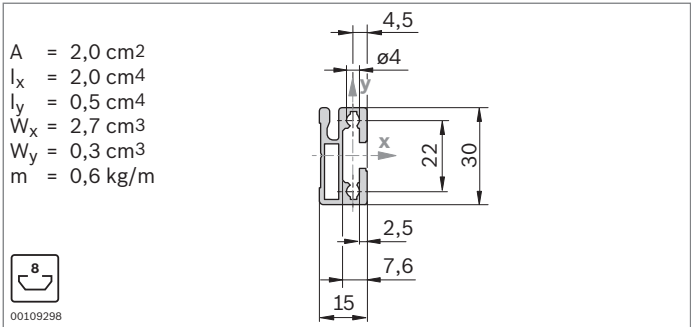
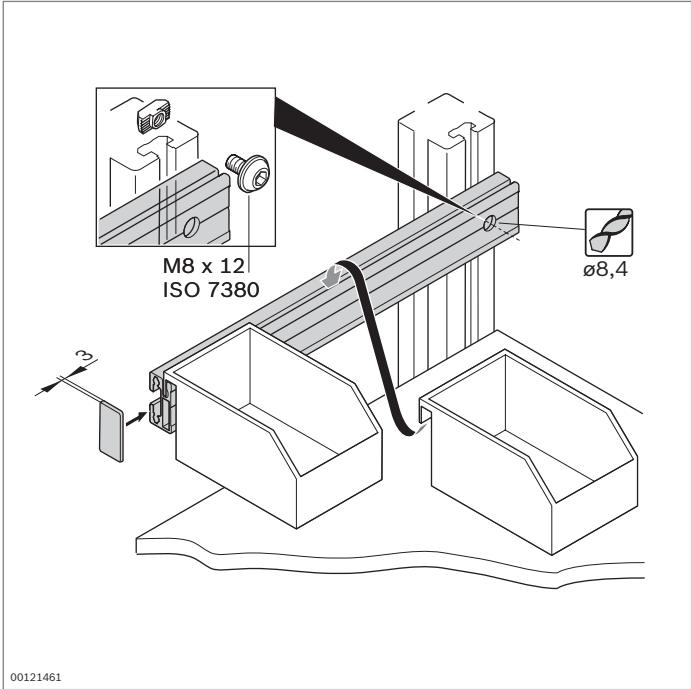


Stopper and cap

- Stoppers prevent containers from sliding on the angle profile
- Cap to prevent injuries at open profile ends
- Attractive design

Stopper, cap		No.	FS
	20	3 842 508 116	2xFS1

Material: PA; black
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)



Cap	Color	ESD	No.
15x30	black		20 3 842 338 990

Suspension profile



- For the fast, secure suspension of grab containers, grab ledges, grab trays, and tool holders
- Profile finishing:
Through hole for screwdriver
- Matching grab containers in the Manual Production Systems catalog (**3 842 538 281**)

Required accessories:

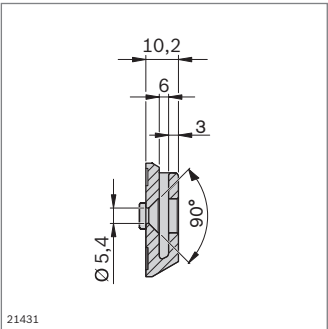
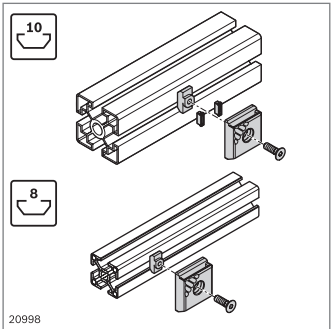
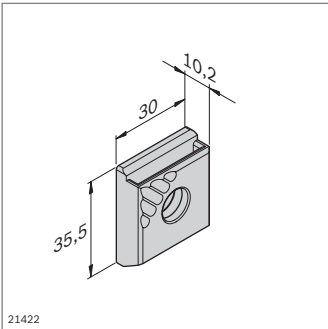
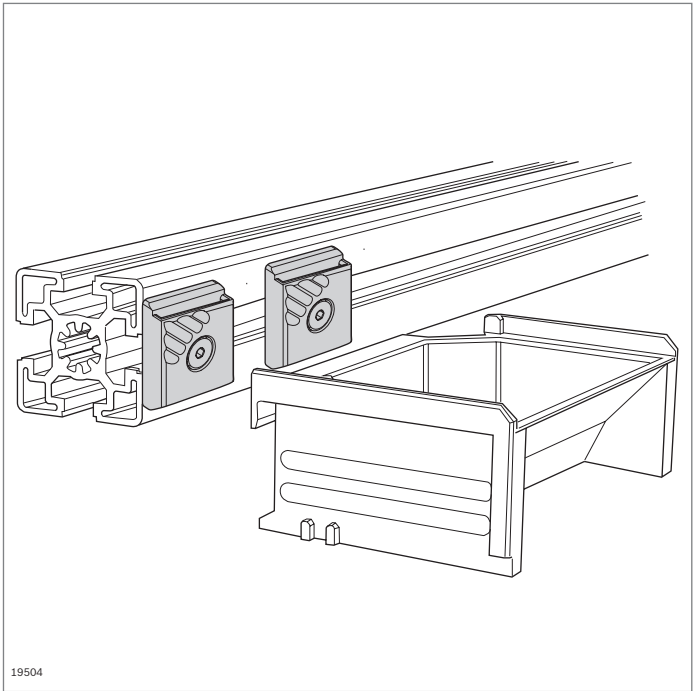
- Screw
- T-nut (p. 3-4)

Suspension profile	L (mm)	ESD	No.
1 pc	50 ... 3000		3 842 993 411 / L
10 pcs	3000		3 842 537 679
1 pc	50 ... 3000		3 842 993 359 / L
10 pcs	3000		3 842 537 681
1 pc	3000		3 842 537 682
1 pc	3000		3 842 537 680

Material: Suspension profile: aluminum, anodized
ESD suspension profile: aluminum, transparent chromated

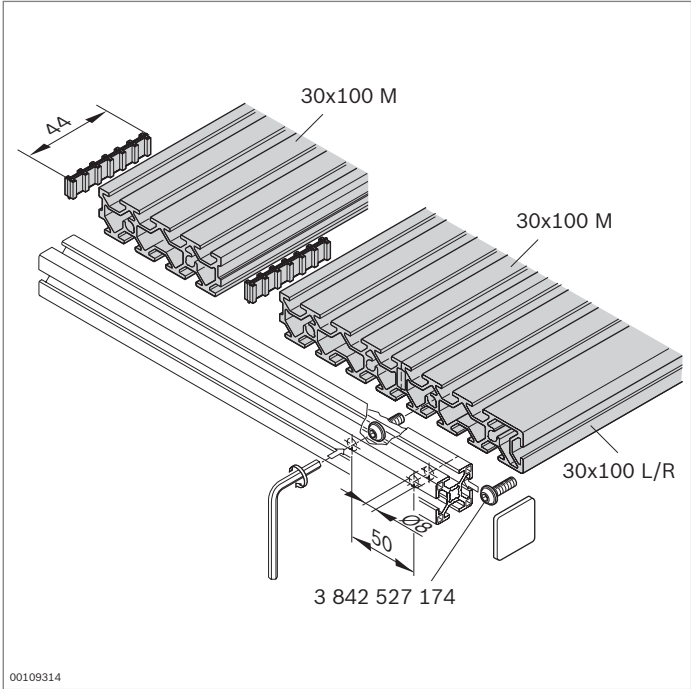
Container mount

- ▶ Container mount for mounting tool holders, grab containers, grab trays, and grab ledges
- ▶ Suitable for 8 mm and 10 mm slot



Container mount	ESD	No.
10		3 842 544 797

Material: PA 66; black
Fastening material: steel; galvanized
Scope of delivery: Incl. fastening material (FS)

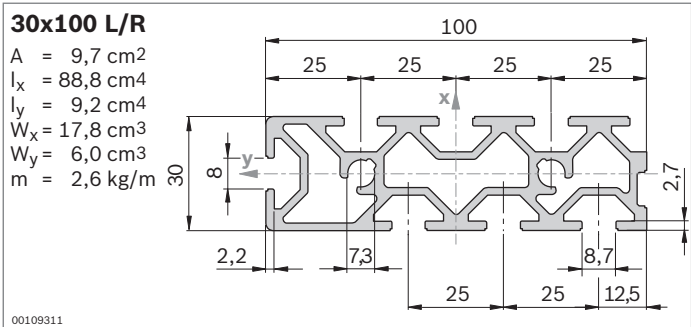


Slotted plate 30x100

- ▶ Modular plate profiles with multiple slots for experimental constructions of any size
- ▶ Slot spacing 25 mm
- ▶ Slot size 8.9 mm
- ▶ 8 mm slot connectors may be used

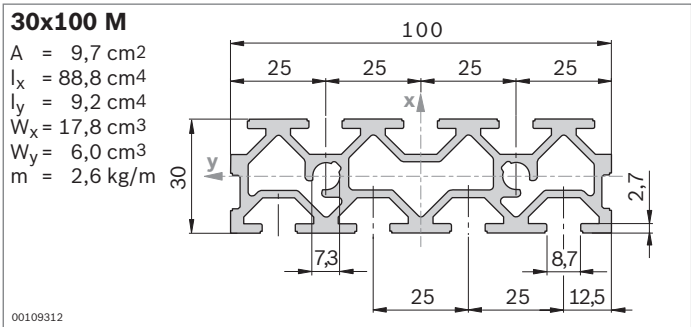
Accessories, optional:

- ▶ Profile 30x30 (p. 2-19)
- ▶ Sliding block



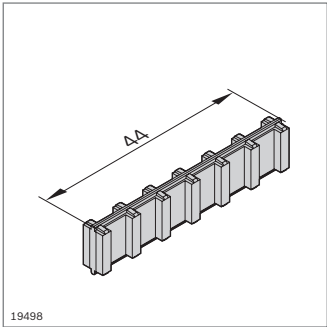
- ▶ Slotted plate **30x100 L/R** with lateral 8 mm slot as outer stop

Slotted plate 30x100 L/R	Slot	L (mm)	No.
1 pc	8	100 ... 5600	3 842 993 337 / L
18 pcs	8	5600	3 842 542 696
Material: Aluminum, anodized			



- ▶ Slotted plate **30x100 M** for constructing slotted plates of any width

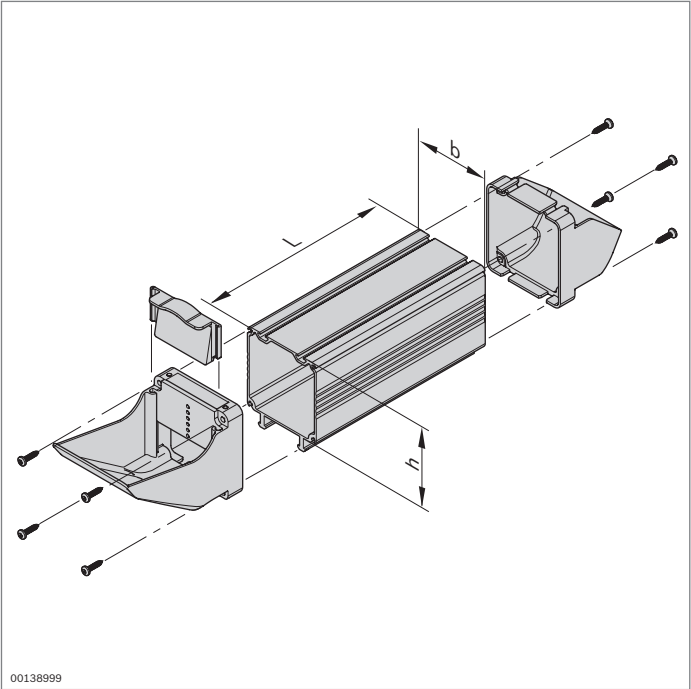
Slotted plate 30x100 M	Slot	L (mm)	No.
1 pc	8	100 ... 5600	3 842 993 336 / L
18 pcs	8	5600	3 842 542 698
Material: Aluminum, anodized			



Sliding block

- ▶ For connecting slotted plates 30x100
- ▶ Recommendation: use 3 sliding blocks per meter of profile length

Sliding block	No.
	100 3 842 520 922
Material: PA	



**Material chute
refill end-piece, grab ledge, grab container base**

- ▶ Small parts within easy reach on the workstation
- ▶ Components for the individual construction of stable Vario grab containers
- ▶ Customizable holding capacity

90x45
A = 7,0 cm²
I_x = 20,7 cm⁴
I_y = 54,3 cm⁴
m = 1,8 kg/m

19908

Material chute 90x45		L (mm)	No.
1 pc		50 ... 3000	3 842 993 071 / L
3 pcs		3000	3 842 526 671
Material: Aluminum, anodized			

90x90
A = 9,6 cm²
I_x = 118,8 cm⁴
I_y = 88,1 cm⁴
m = 2,5 kg/m

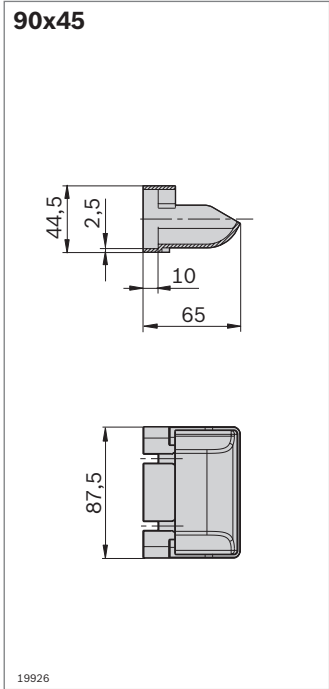
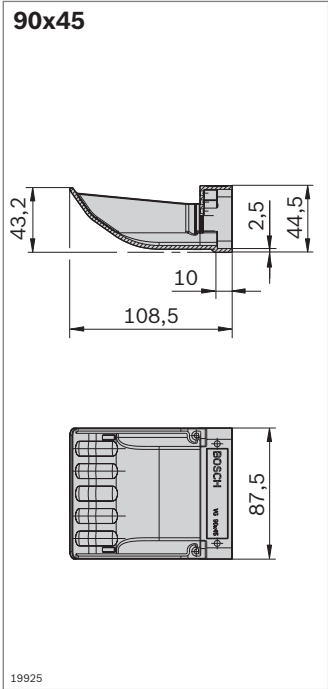
19599

Material chute 90x90		L (mm)	No.
1 pc		50 ... 3000	3 842 993 072 / L
3 pcs		3000	3 842 526 672
Material: Aluminum, anodized			

180x90
A = 15,5 cm²
I_x = 208,2 cm⁴
I_y = 597,5 cm⁴
m = 4,2 kg/m

19909

Material chute 180x90		L (mm)	No.
1 pc		50 ... 3000	3 842 993 073 / L
3 pcs		3000	3 842 526 673
Material: Aluminum, anodized			

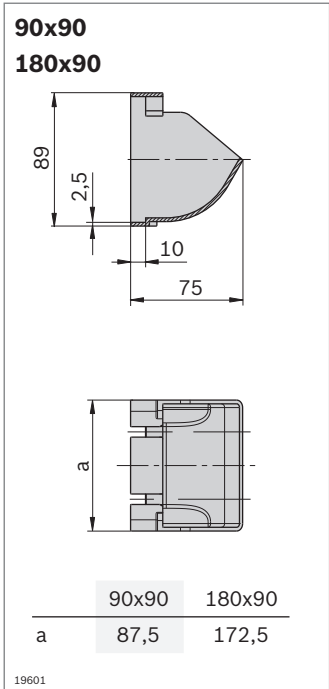
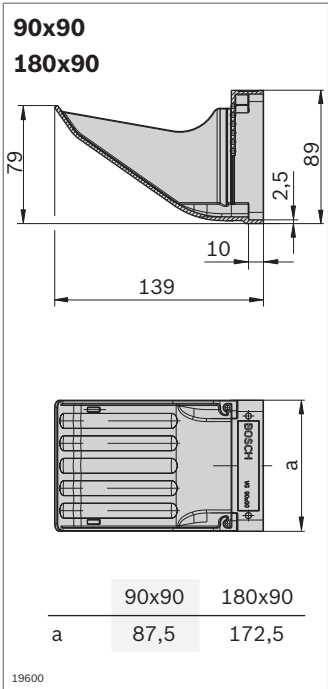
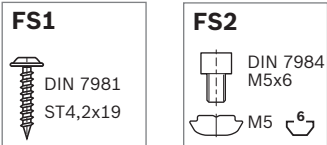


- ▶ Refill end-piece with large opening for easy filling
- ▶ Ergonomically designed grab ledge for easy, safe grabbing
- ▶ Grab container pusher for closing

Grab ledge and refill end-piece	No.	FS
90 x 45	3 842 526 626	8xFS1, FS2

Material: Plastic ABS, light gray RAL 7035
Fastening material: steel; galvanized

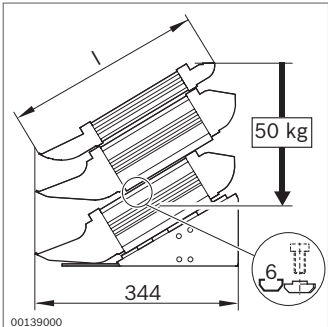
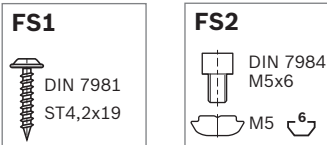
Scope of delivery: Incl. fastening material (FS)



Grab ledge and refill end-piece	No.	FS
90 x 90	3 842 526 627	8xFS1, FS2
180 x 90	3 842 526 628	8xFS1, FS2

Material: Plastic ABS, light gray RAL 7035
Fastening material: steel; galvanized

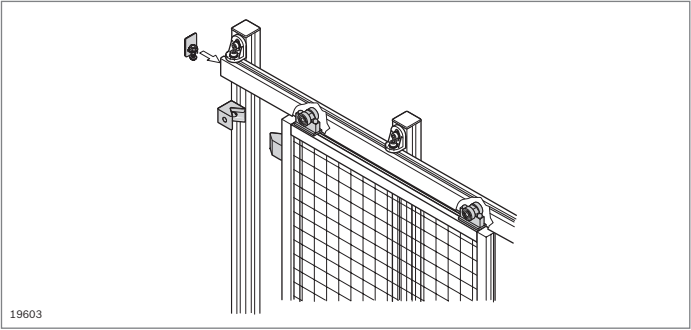
Scope of delivery: Incl. fastening material (FS)



- ▶ Grab container base for an ergonomically optimized arrangement of grab containers

Grab container base	w x h x l (mm)	No.
SG 90	90 x 149 x 315	3 842 526 660
SG 180	180 x 149 x 315	3 842 526 665

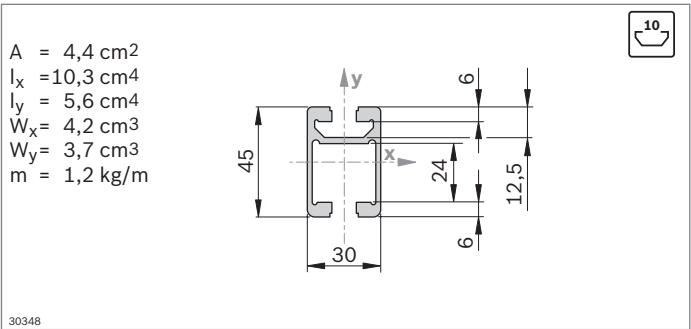
Material: Sheet steel, light gray powder coating (RAL 7035)



Profile rail, trolley

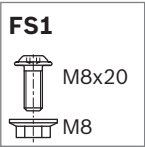
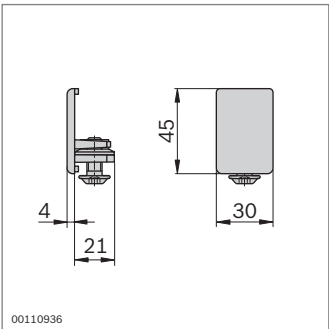
- Profile rail and trolley for movable mounting of parts, e.g. for use as a screwdriver hanger at work tables or for EcoSafe sliding doors (p. 10-14)

Accessories:
See page 12-4



Profile rail 30x45C		L (mm)	No.
1 pc		50 ... 5600	3 842 992 946 / L
20 pcs		5600	3 842 523 598
1 pc		5600	3 842 523 599

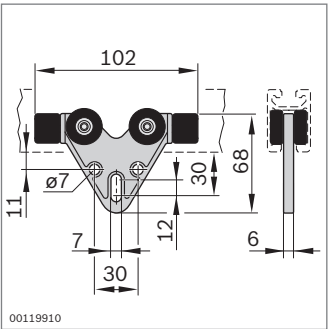
Material: Aluminum, anodized



- Profile rail end piece for use as cover cap with stop
- With screw protection

End piece	No.	FS
20	3 842 521 513	FS1

Material: End piece: PA; black
Fastening material: steel, galvanized
Scope of delivery: Incl. fastening material (FS)

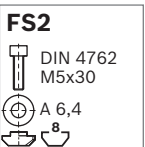
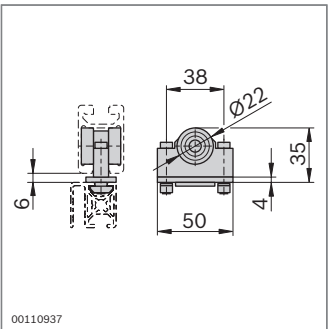


Trolley

- Trolley with ring, e.g. for hanging a spring hook

Trolley for profile rail 30x45C	No.
	3 842 521 510

Material: Injection molded plastic

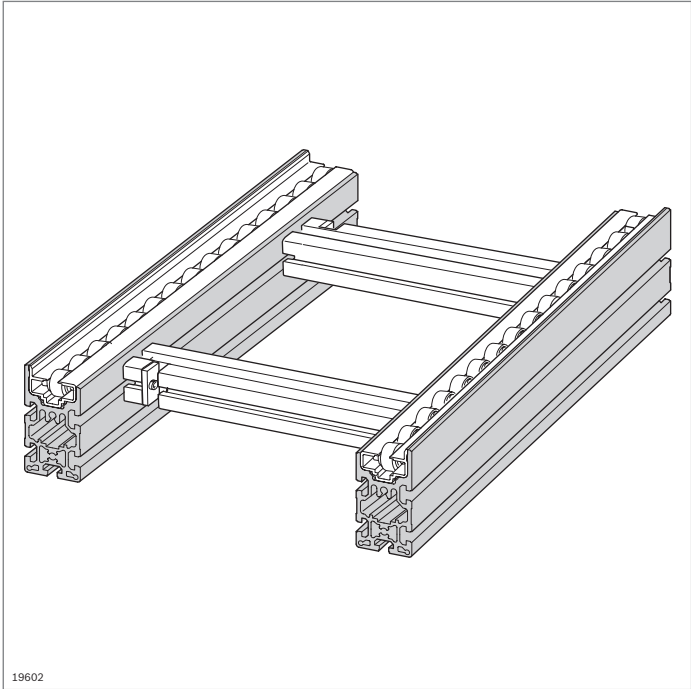


Trolley

- Trolley with dust-proof ball bearings for smooth movement
- For fastening profiles with a 8 mm slot

Trolley	No.	FS
	3 842 524 153	FS2

Material: PA; black
Scope of delivery: Incl. fastening material (FS)



Profiles for installing conveyor media



- Profiles that are normally used to construct the transfer systems TS 2*plus* and TS 4, as well as Lean conveyor tracks, are also suitable for the construction of manual conveyor sections. Detailed information is available in chapter 12 “Elements for manual movement” and in the respective special catalogs

U-profile

$A = 4,4 \text{ cm}^2$
 $I_x = 10,4 \text{ cm}^4$
 $I_y = 8,3 \text{ cm}^4$
 $W_x = 4,6 \text{ cm}^3$
 $W_y = 4,1 \text{ cm}^3$
 $m = 1,2 \text{ kg/m}$

19902

U-profile	Slot	L (mm)	ESD No.
1 pc	10	50 ... 6000	3 842 993 316 / L
20 pcs	10	6070	3 842 535 115
1 pc	10	50 ... 6000	3 842 995 027 / L
20 pcs	10	6070	3 842 541 814
1 pc	10	6070	3 842 541 813
1 pc	10	6070	3 842 535 116

Material: U-profile: aluminum, anodized
 U-profile ESD: aluminum, untreated

SP 2/R

$A = 5,2 \text{ cm}^2$
 $I_x = 4,3 \text{ cm}^4$
 $I_y = 11,7 \text{ cm}^4$
 $W_x = 2,4 \text{ cm}^3$
 $W_y = 5,2 \text{ cm}^3$
 $m = 1,4 \text{ kg/m}$

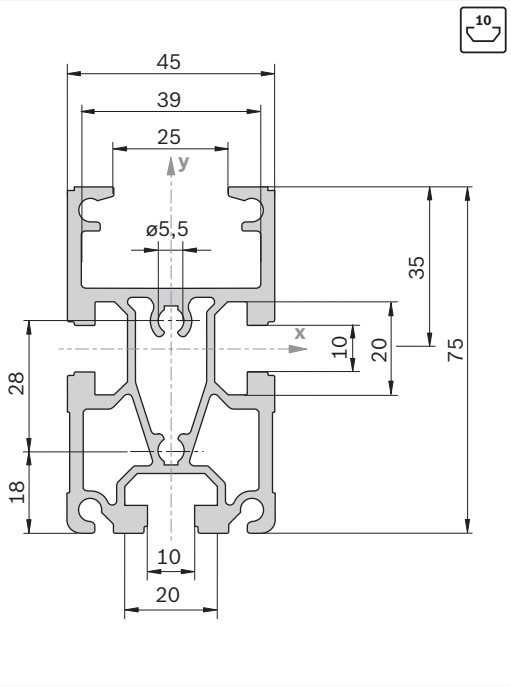
19893

Section profile SP 2/R	L (mm)	No.
	50 ... 6000	3 842 992 676

Material: Aluminum, natural-colored, anodized

SP 2/B

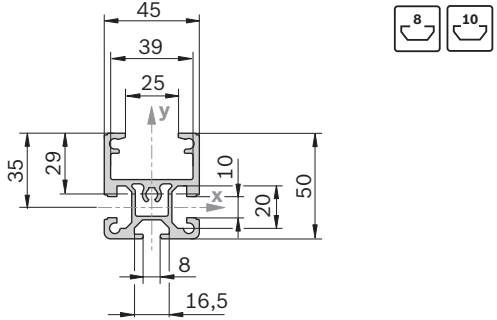
A = 10,4 cm²
I_x = 49,6 cm⁴
I_y = 25,8 cm⁴
W_x = 12,1 cm³
W_y = 11,5 cm³
m = 2,8 kg/m



19903

SP 2/B-50

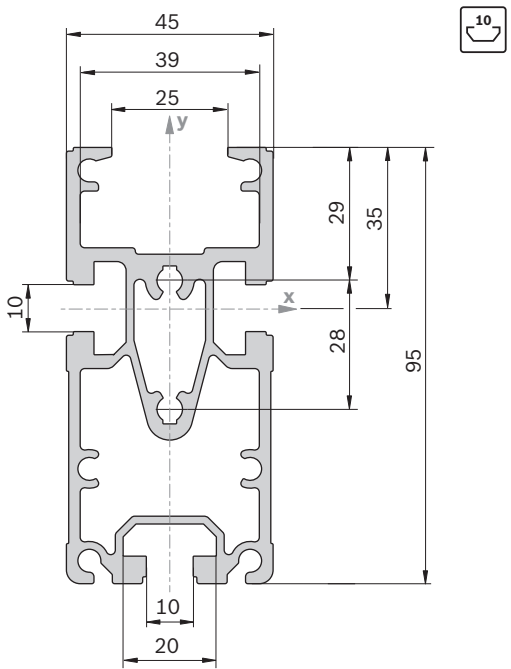
A = 6,9 cm²
I_x = 16,1 cm⁴
I_y = 16,9 cm⁴
W_x = 5,3 cm³
W_y = 7,5 cm³
m = 1,9 kg/m



19904

SP 2/B-100

A = 11,9 cm²
I_x = 95,1 cm⁴
I_y = 30,4 cm⁴
W_x = 20,0 cm³
W_y = 13,5 cm³
m = 3,2 kg/m



19905

Section profile SP 2/B	Slot	L (mm)	No.
1 pc	10	200 ... 6000	3 842 992 884 / L
16 pcs	10	6070	3 842 532 695

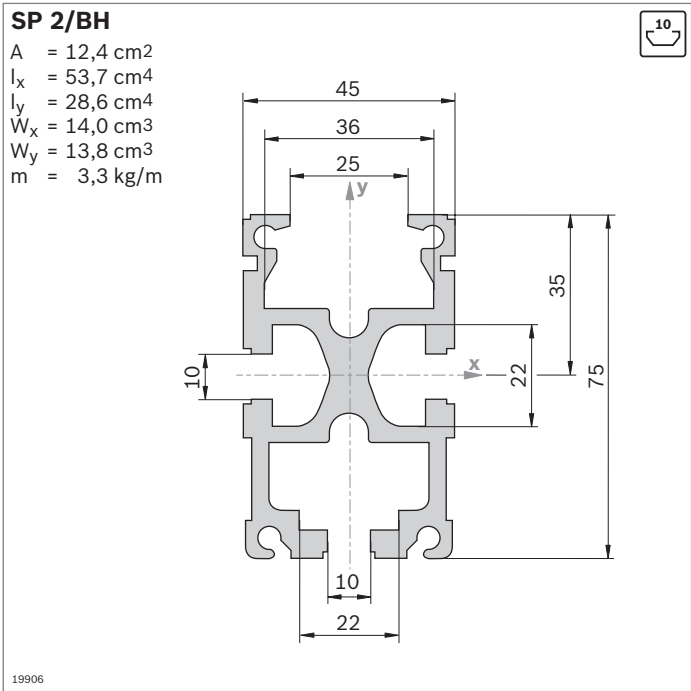
Material: Aluminum, natural-colored, anodized

Section profile SP 2/B-50	Slot	L (mm)	No.
1 pc	8 / 10	200 ... 6000	3 842 992 903 / L
20 pcs	8 / 10	6070	3 842 532 697

Material: Aluminum, natural-colored, anodized

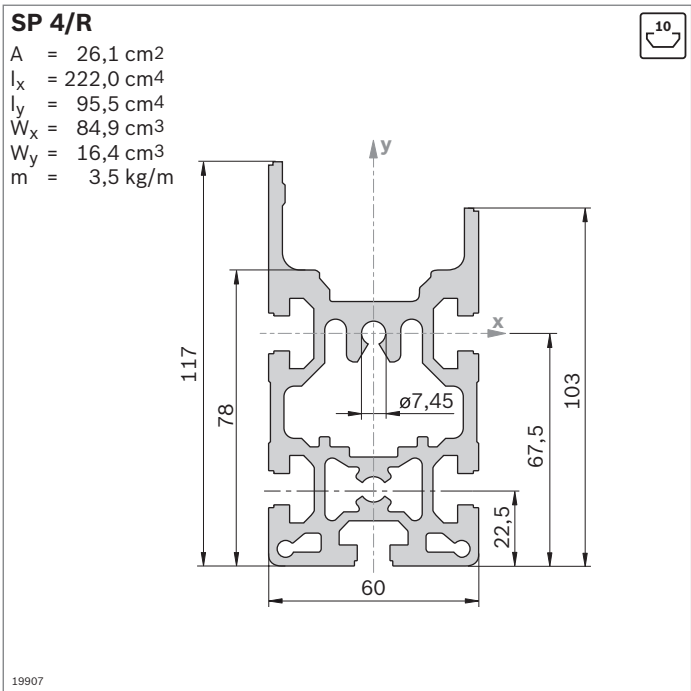
Section profile SP 2/B-100	Slot	L (mm)	No.
1 pc	10	200 ... 6000	3 842 993 259 / L
16 pcs	10	6070	3 842 532 608

Material: Aluminum, natural-colored, anodized



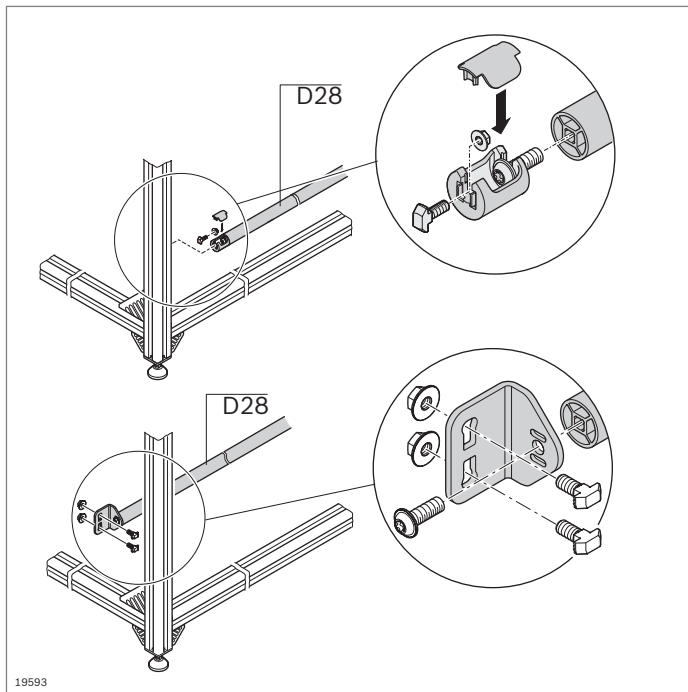
Section profile SP 2/BH		Slot	L (mm)	No.
1 pc		10	200 ... 6000	3 842 990 409 / L
 16 pcs		10	6070	3 842 532 696

Material: Aluminum, natural-colored, anodized



Section profile SP 4/R		Slot	L (mm)	No.
 10 pcs		10	6000	3 842 532 505

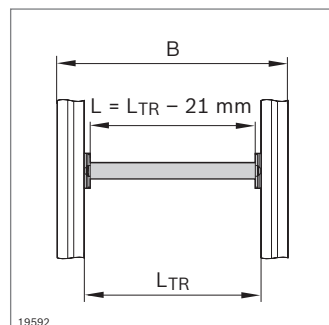
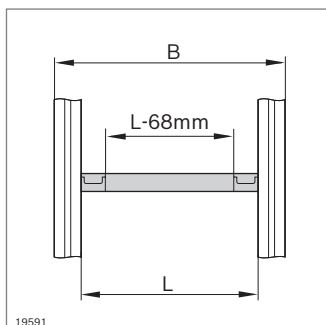
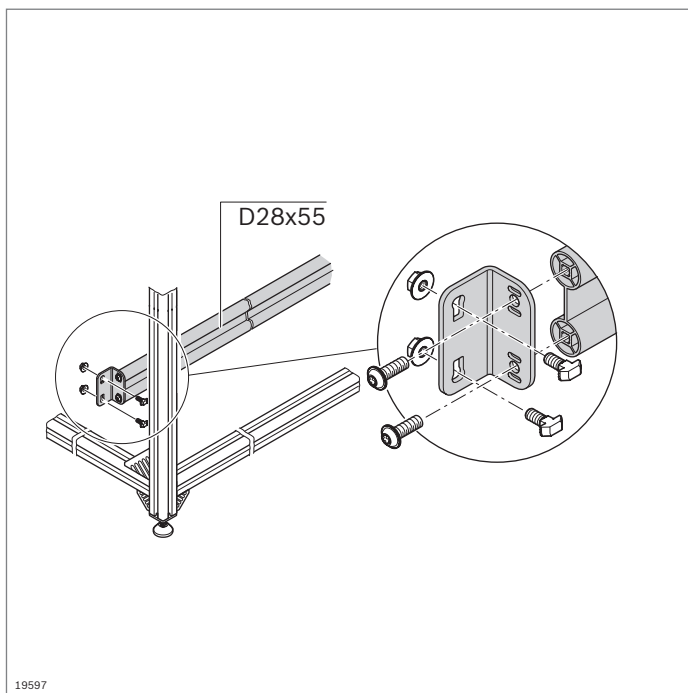
Material: Aluminum, natural-colored, anodized



Round tube D28, strut profile D28x55 bracket, T-connector



- For constructing cross ties in flow racks or workstations
- Designed for heavy loads
- Use of brackets makes for easy assembly
- Elongated hole in the mounting bracket for longitudinal compensation
- Central holes can be used for self-tapping screws S8x25 (p. 3-40)
- For matching components to construct conveyor tracks, see chapter 12 “Elements for manual movement”



D28

A = 2,4 cm²

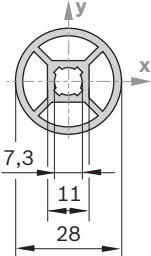
$I_x = 1,5 \text{ cm}^4$

$I_y = 1,5 \text{ cm}^4$

$W_x = 1,1 \text{ cm}^3$

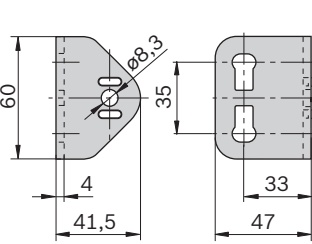
$W_y = 1,1 \text{ cm}^3$

m = 0,7 kg/m



19505

Cap D28	Color	ESD		No.
	Gray		20	3 842 537 718
	Black		20	3 842 535 835



FS1

 M8

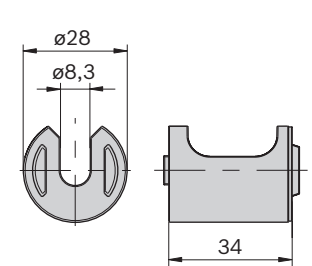
 M8x20

 10

FS2

 S8x25 - T40

19596



FS2

 S8x25 - T40

FS3

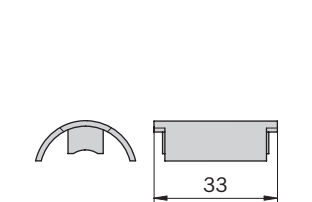
 EN1661

 M8

 M8x20

 10

19594



19595

Round tube D28	L (mm)	No.
1 pc 	50 ... 6000	3 842 993 317 / L
 20 pcs 	6070	3 842 535 118 

Material Aluminum, anodized

Accessories,
optional: Lettering clip (p. 2-88)

Holding bracket for round tube D28

- For mounting a round tube D28 to a strut profile with a 10 mm slot
- Extremely simple mounting thanks to easy adjustment of the installation height

Bracket 60x47x4		No.	FS
	20	3 842 536 002	2xFS1, FS2 

Material: Steel; galvanized

Scope of delivery: Incl. fastening material (FS)

T-connector for round tube D28

- For mounting a round tube D28 to a strut profile with a 10 mm slot
- Without interfering contours

T-connector D28		No.	FS
	20	3 842 532 879	FS2, FS3 

Material: T-connector: diecast aluminum

Cover cap: ABS; black

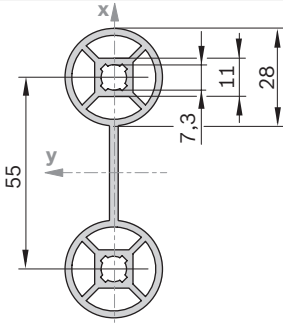
Scope of delivery: Incl. cap, fastening material (FS)

Cap D28		No.
	20	3 842 532 878

Material: ABS; black

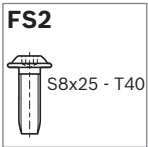
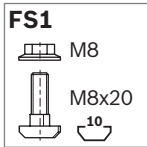
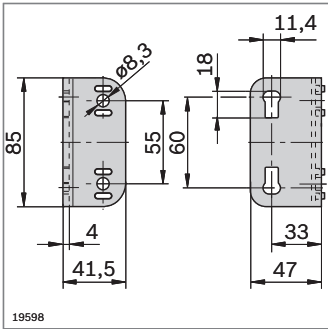
D28x55

A = 5,9 cm²
I_x = 3,2 cm⁴
I_y = 88,3 cm⁴
W_x = 2,3 cm³
W_y = 23,1 cm³
m = 1,6 kg/m



19468

Cap D28	Color	ESD	No.
(2x)	Gray	20	3 842 537 718
(2x)	Black	20	3 842 535 835



Strut profile D28x55	L (mm)	No.
1 pc	100 ... 6000	3 842 993 489 / L
20 pcs	6070	3 842 537 477

Material: Aluminum, anodized
Accessories, optional: Lettering clip (p. 2-88)

Bracket 85x47x4

- For mounting a strut profile D28x55 to a strut profile with a 10 mm slot
- Extremely simple mounting thanks to easy adjustment of the installation height

Bracket 85x47x4	No.	FS
20	3 842 536 730	2xFS1, 2xFS2

Material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

EcoShape tubular framing system



- ▶ All connectors can be combined with the EcoShape round tubes D28L and D28L, N10, and the D28 round tube
- ▶ Integrated poka-yoke system for easy and secure connector installation
 - Anti-torsion element for secure joints
 - Positive interlocking connection
- ▶ All connectors are suitable for building ESD-conductive systems.

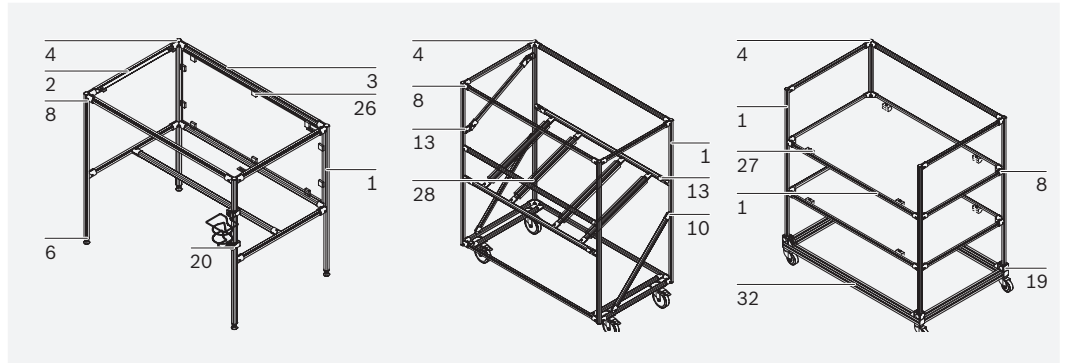
Material: Diecast zinc

Scope of delivery: incl. fastening material

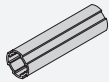


31 components – a myriad of options

The EcoShape system is characterized by its consistent simplicity and efficiency: using just a few components, you can build complete assembly lines as well as simple transport shuttles.

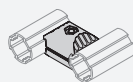


1 D28L
round tube



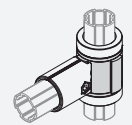
24878

9 Parallel
connector



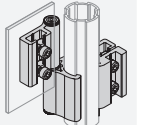
24886

17 Swivel
bearing
D28L



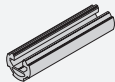
24894

25 Hinge
D28L/-



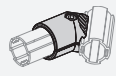
24902

2 D28L, N10
round tube



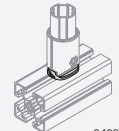
24879

10 45°
connector



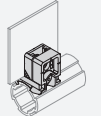
24887

18 N8, N10
adapter



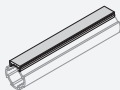
24895

26 Variofix
block PA



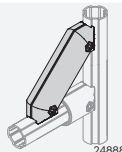
24903

3 Slide rail



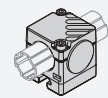
24880

11 Strut D28L,
45°



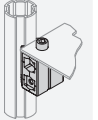
24888

19 N10/45
adapter



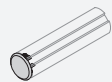
24896

27 Variofix
Block Zn



24904

4 Cap D28L



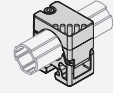
24881

12 Cross
connector



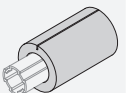
24889

20 N10/30
adapter



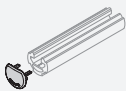
24897

28 Impact
protection
device



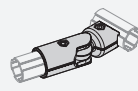
24905

5 Cap D28L,
N10



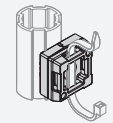
24882

13 0°-90°
Connector



24890

21 Adapter fix
D28L



24898

29 Ring D50



24906

6 Threaded
sleeve
D28L; PA



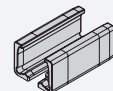
24883

14 0°-90° D28
connector



24891

22 XLean
adapter



24899

30 Rubber foot
D28



24907

7 Threaded
sleeve
D28L, Zn



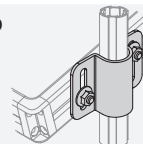
24884

15 Corner
bracket
D28



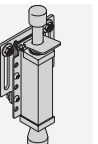
24892

23 Tube clamp
D28L, N10



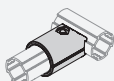
24900

31 Stopper
D28L, N10



24908

8 90°
connector



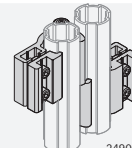
24885

16 Retaining
ring D28L



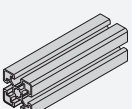
24893

24 Hinge
D28L/D28L



24901

32 Profile
45x45L



24909

1

A = 1,8 cm²

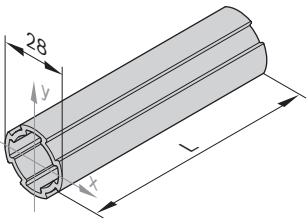
I_x = 1,3 cm⁴

I_y = 1,3 cm⁴

W_x = 1,0 cm³

W_y = 1,0 cm³

m = 0,5 kg/m



00134985

2

A = 2,6 cm²

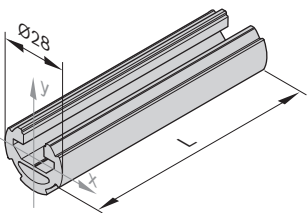
I_x = 1,2 cm⁴

I_y = 2,0 cm⁴

W_x = 0,8 cm³

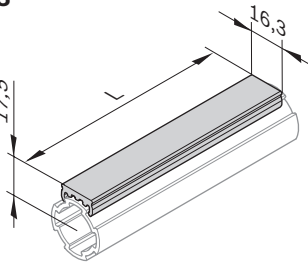
W_y = 1,4 cm³

m = 0,7 kg/m



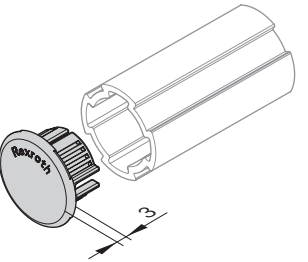
00134986

3



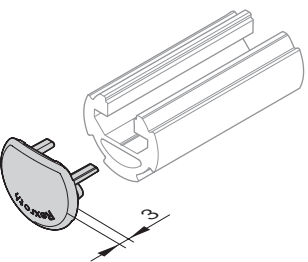
00134987

4



24132

5



24133

- ▶ Round tube D28L with 4 interfaces for attaching EcoShape connectors

Round tube D28L	L (mm)	No.
1 pc 	50 ... 5600	3 842 996 191/L
 50 pcs 	5600	3 842 541 211 
1 pc 	5600	3 842 541 212 

Material: Aluminum, anodized

- ▶ Round tube D28L, N10 with a 10 mm slot for mounting accessories from the modular aluminum framing system
- ▶ 3 interfaces for attaching EcoShape connectors

Round tube D28L, N10	L (mm)	No.
1 pc 	50 ... 5600	3 842 996 192/L
 20 pcs 	5600	3 842 541 213 
1 pc 	5600	3 842 541 214 

Material: Aluminum, anodized

- ▶ Slide rail for creating a simple conveyor track or manual slide section by clipping the slide rail onto the round tube D28L or D28L, N10

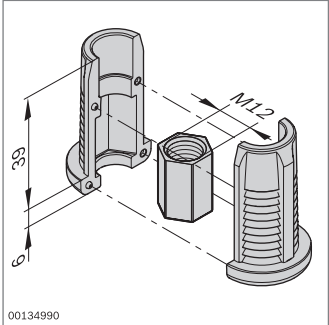
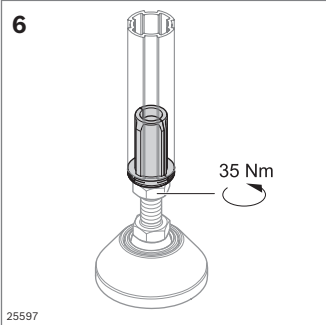
Slider rail	L (mm)	ESD		No.
	2000		10	3 842 541 196 
	2000		10	3 842 548 117

Material: PVC; gray
ESD: PVC (conductive); black

- ▶ Cap for round tube D28L and D28L, N10

Cap	ESD		No.
4 D28L		20	3 842 548 129
5 D28L, N10		20	3 842 548 130

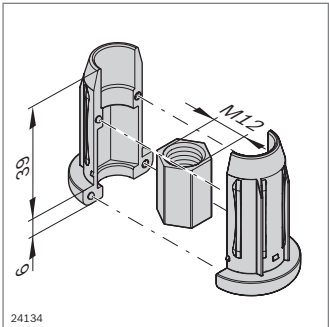
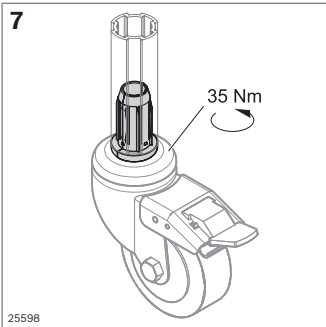
Material: PA66 (conductive); black



► Threaded sleeve for incorporating a leveling foot or caster. For further information (see p. 6-7)

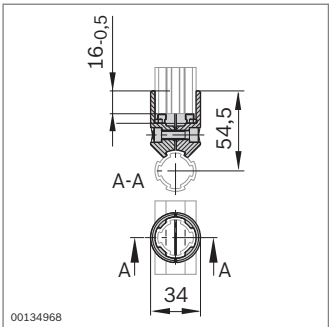
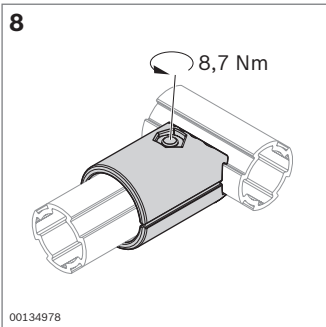
Threaded sleeve D28L, PA	ESD	No.
	20	3 842 541 185

Material: PA66 (conductive); black
Hexagon nut: aluminum



Threaded sleeve D28L, Zn	ESD	No.
	20	3 842 548 119

Material: Diecast zinc
Hexagon nut: aluminum



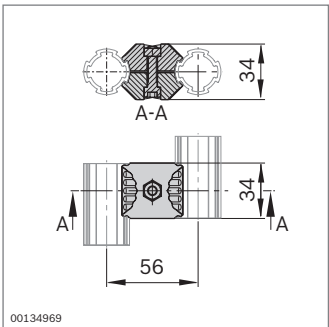
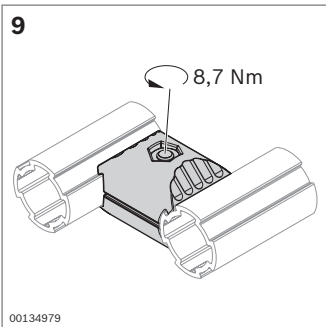
90° connector	ESD	No.	FS
	20	3 842 541 173	FS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

FS1

ISO 4762
M6x25

ISO 4032
M6



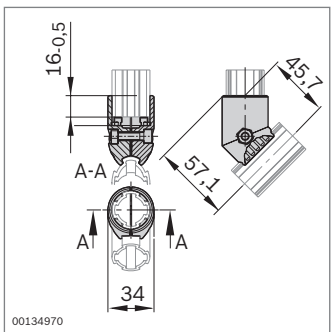
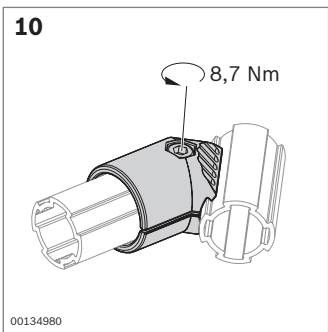
Parallel connector	ESD	No.	FS
	20	3 842 541 183	FS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

FS1

ISO 4762
M6x25

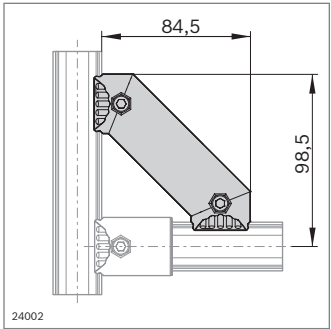
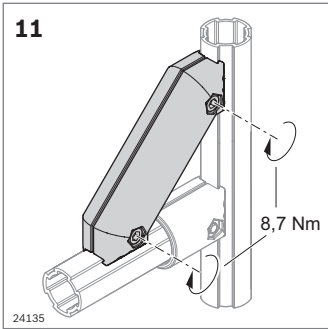
ISO 4032
M6



45° connector	ESD	No.	FS
	20	3 842 541 175	FS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

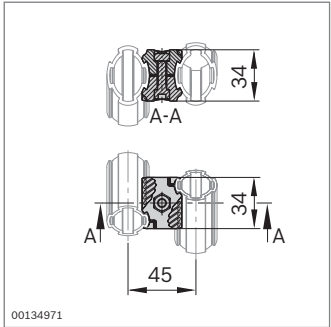
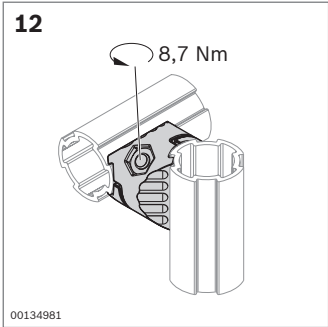
FS1



Strut D28L, 45°	ESD	No.	FS
	20	3 842 548 118	2xFS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

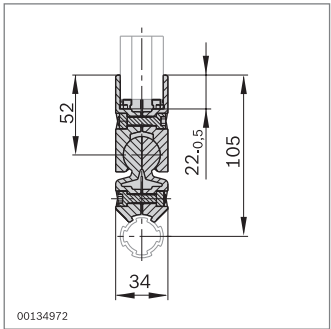
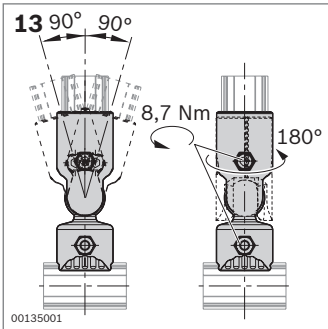
FS1



Cross connector	ESD	No.	FS
	20	3 842 541 181	FS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

FS1

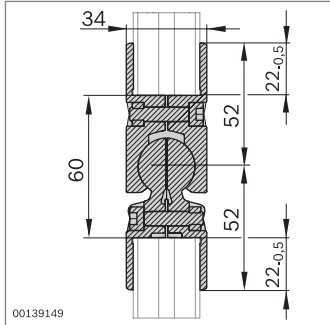
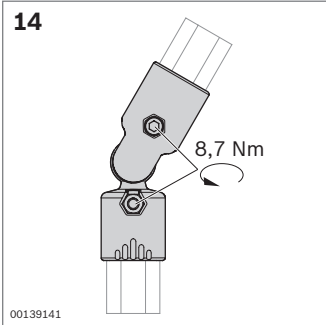


0°-90° connector	ESD	No.	FS
	20	3 842 541 178	2xFS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

FS1



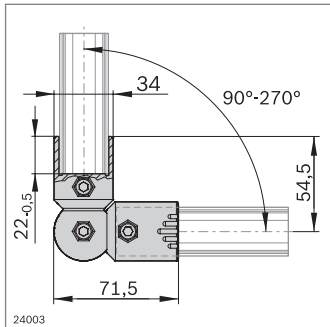
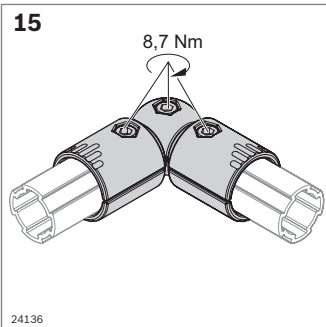


0°-90° D28 connector	ESD	No.	FS
	20	3 842 543 480	2xFS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

FS1

	ISO 4762
	M6x25
	ISO 4032
	M6



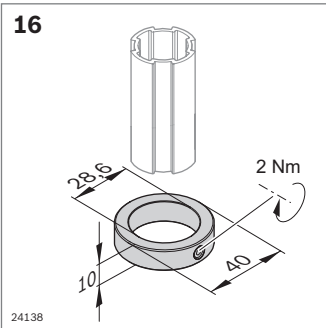
- Corner bracket D28 for easy adjustment within a 15° range
- Swivel range: 90°-270°

Corner bracket D28	ESD	No.	FS
	20	3 842 548 123	3xFS1

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

FS1

	ISO 4762
	M6x25
	ISO 4032
	M6

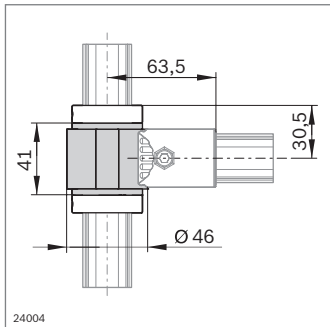
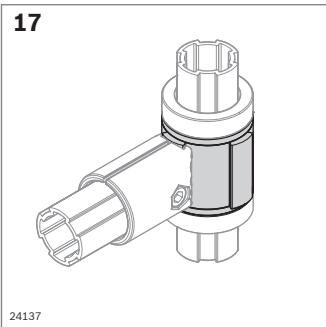


Retaining ring D28L	ESD	No.	FS
	20	3 842 548 122	FS2

Material: Aluminum
Scope of delivery: Incl. fastening material (FS)

FS2

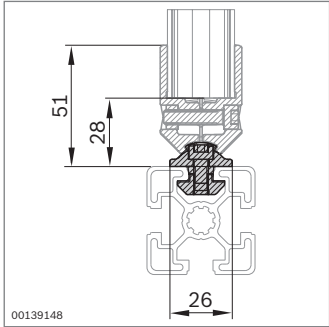
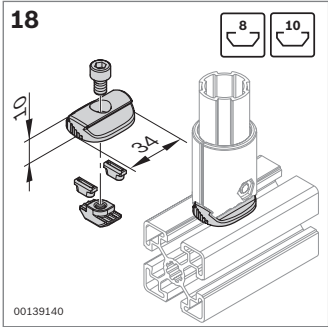
	ISO 4026
	M6x6



- For axial shifting along the D28L or D28L, N10 round tube; the retaining ring defines the end position.
- Construction of swiveling applications

Swivel bearing D28L	No.
20	3 842 548 121

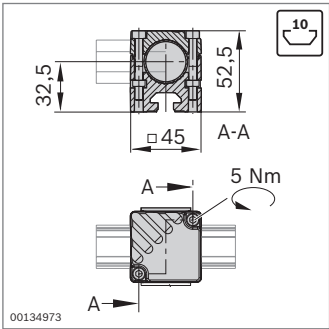
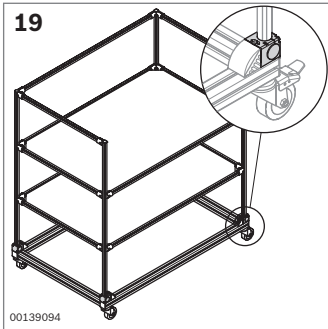
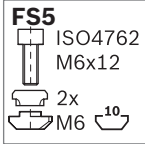
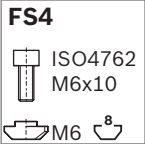
Material: Aluminum,
Socket: POM; black



- N8, N10 adapter for connecting an MGE strut profile (8 mm, 10 mm slots)

N8, N10 adapter	ESD	No.	FS
	20	3 842 543 272	FS4, FS5

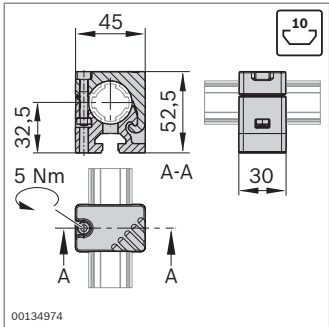
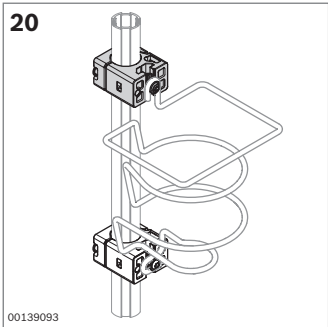
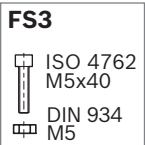
Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)



- N10/45 adapter for connecting D28L or D28L, N10 round tubes to profiles with a 10 mm slot

N10/45 adapter	ESD	No.	FS
	20	3 842 541 187	2xFS3

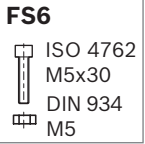
Material: Adapter: Diecast zinc
Cap: PE
Scope of delivery: Incl. cap, fastening material (FS)

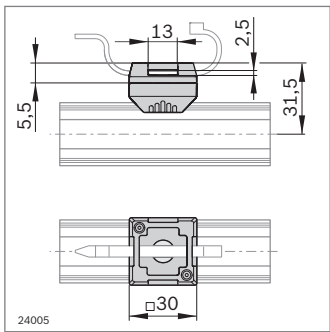
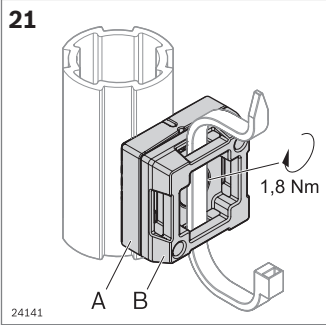


- N10/30 adapter for mounting light accessories such as a bottle holder to a D28L round tube

N10/30 adapter	ESD	No.	FS
	20	3 842 541 190	FS6

Material: Diecast zinc
Scope of delivery: Incl. fastening material (FS)

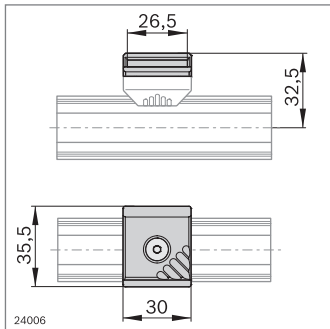
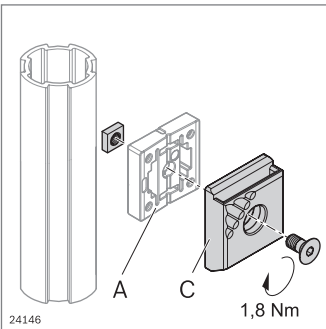
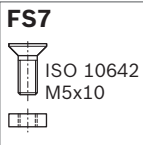




► For attaching cable ties

Adapter fix D28L	ESD	No.	FS
A + B	20	3 842 548 120	FS7

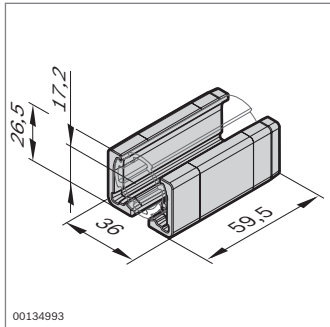
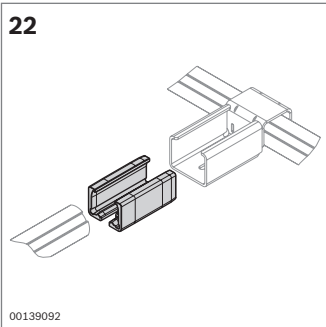
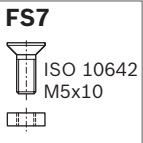
Material: PA66 (conductive); black
Scope of delivery: Incl. fastening material (FS)



► For attaching containers using the container mount

Container mount	ESD	No.	FS
C	10	3 842 544 797	FS7

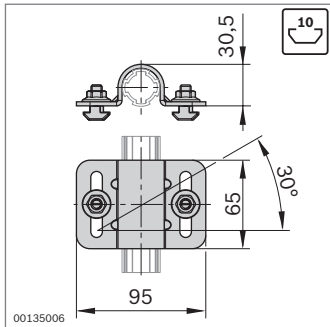
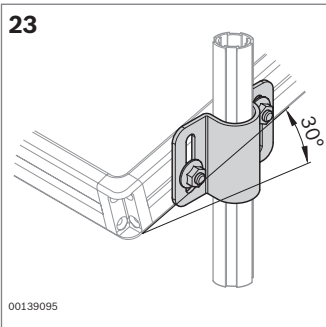
Material: PA66 (conductive); black
Scope of delivery: Incl. fastening material (FS)



► XLean adapter for combination with XLean. The XLean adapter connects the D28L round tube with the XLean rail holder (p. 12-26)

XLean adapter	ESD	No.
	20	3 842 541 296

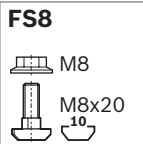
Material: PA66 (conductive); black

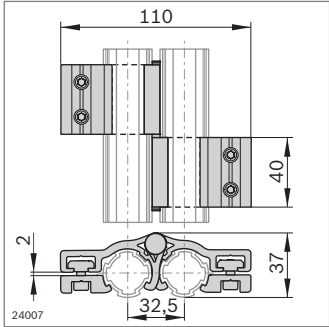
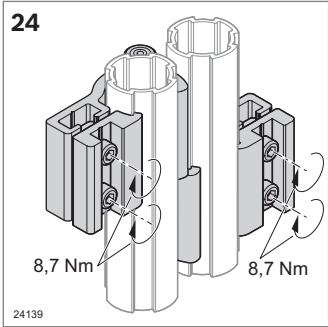


► D28L, N10 tube clamp for fastening material shelves with a 10 mm slot to the D28L round tube; oblique positioning up to 30 degrees is possible

Tube clamp D28L, N10	ESD	No.	FS
	20	3 842 541 193	2xFS8

Material: Steel; galvanized
Scope of delivery: Incl. fastening material (FS)

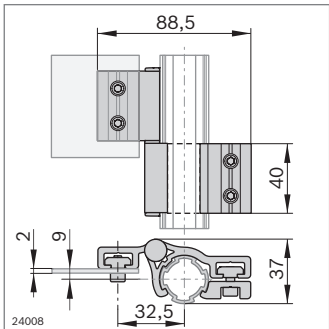
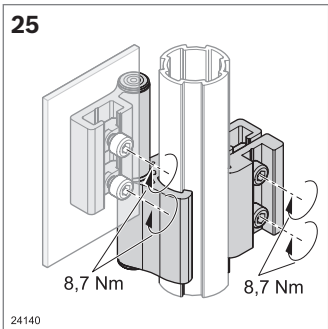
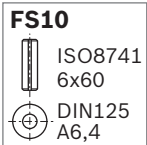
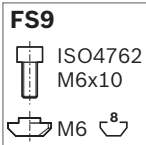




- ▶ Opening angle: 180°
- ▶ For mounting D28L round tube

Hinge D28L/D28L	ESD	No.	FS
		2	3 842 548 126 4xFS9, FS10

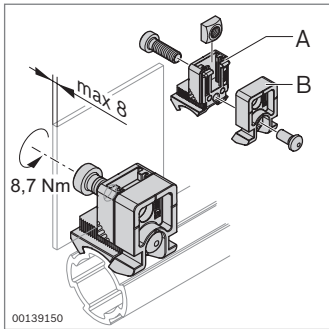
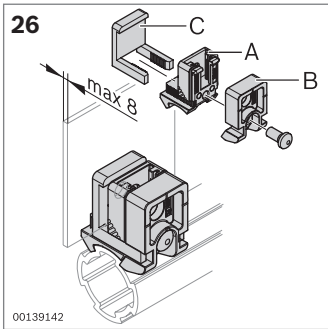
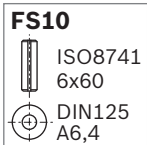
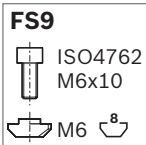
Material: Aluminum
Scope of delivery: Incl. fastening material (FS)



- ▶ Opening angle: 180°
- ▶ For mounting surface elements

Hinge D28L/-	ESD	No.	FS
		2	3 842 548 127 2xFS9, FS10

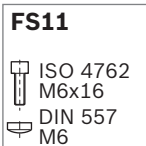
Material: Aluminum
Scope of delivery: Incl. fastening material (FS)



- ▶ Plastic Variofix block for fastening surface elements with a snap-in clip or screw
- ▶ Variofix remover for releasing the snap-in clip (p. 14-7)

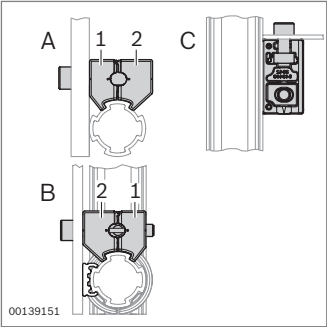
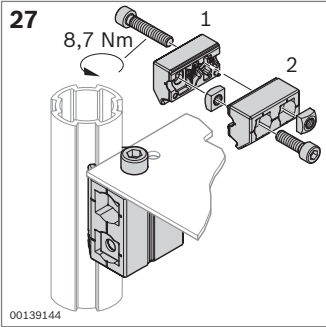
Variofix block PA	No.	FS
A + B	20	3 842 543 311 FS11, FS12

Material: PA66 (conductive); black
Scope of delivery: Incl. fastening material (FS)



Snap-in clip	No.
C	10 3 842 184 738

Material: PA6; transparent

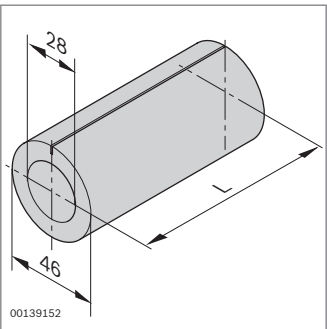
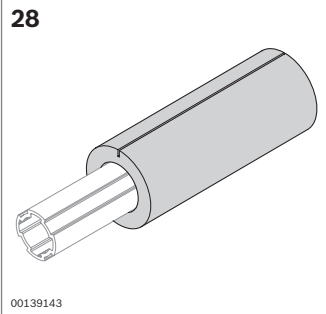


- Diecast zinc Variofix block for fastening surface elements
- Three arrangements possible ("A", "B", "C")

Variofix block Zn	ESD	No.	FS
	20	3 842 543 494	FS13

Material: Diecast zinc
Scope of delivery Incl. fastening material (FS)

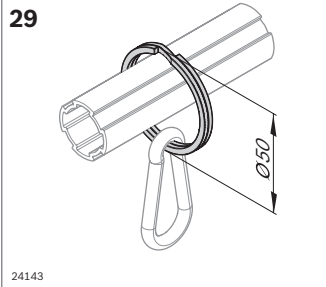
FS13
ISO 4762
M6x22
ISO 4762
M6x30
DIN 557
2x M6



- Bumper for round tube D28 and D28L

Impact protection device	L (mm)	No.
	2000	10
		3 842 544 637

Material: PE-LD; gray



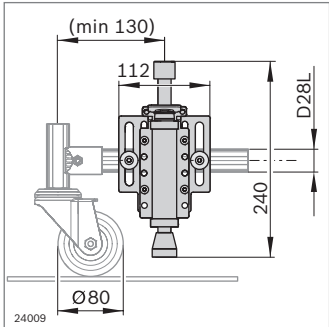
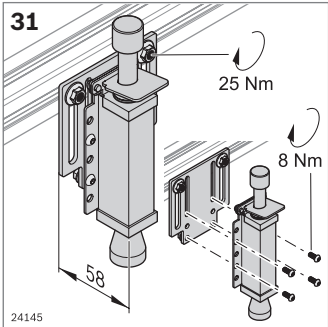
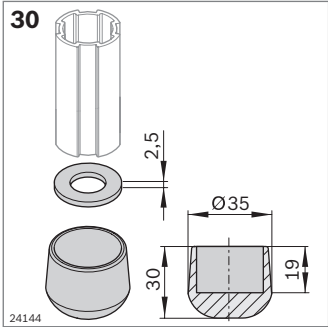
- For designing simple tool holders

Ring D50	No.
	20
	3 842 548 131

Material: Steel; nickel-plated

Spring hook	No.
	1
	0 842 901 309

Material: Steel, galvanized

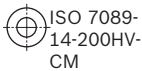


- Non-slip design of flow racks and stands

Rubber foot D28	ESD	No.	FS
		20	3 842 548 128 FS14

Material: NR/SBR (conductive); black

FS14



- To stop material shuttles ergonomically at just one point
- All-purpose option for attachment to different round tubes and profile cross-sections
- Clamping travel stopper: 34 mm

Stopper D28L, N10	No.	FS
	3 842 548 132	4xFS15, 2xFS16

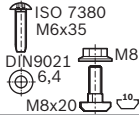
Material: Stopper: stainless steel .EPDM
Attachment plate: aluminum

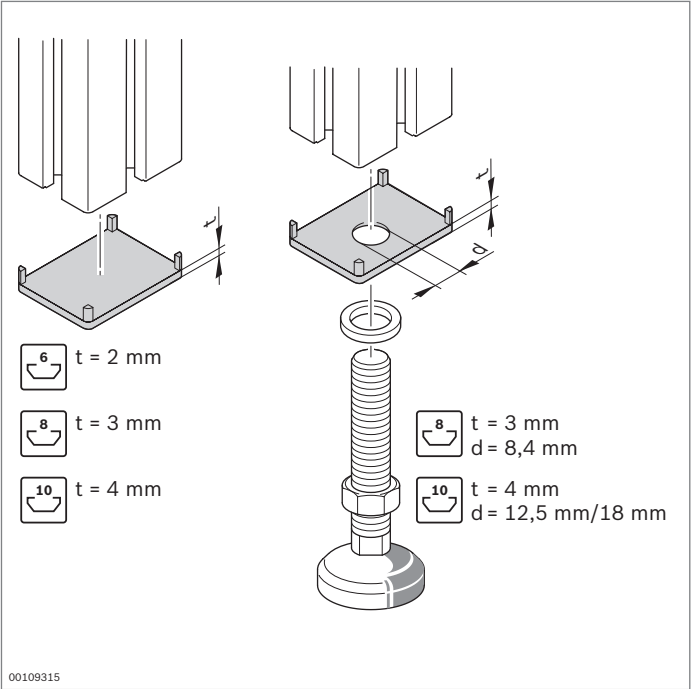
Scope of delivery: Incl. fastening material (FS)

FS15



FS16



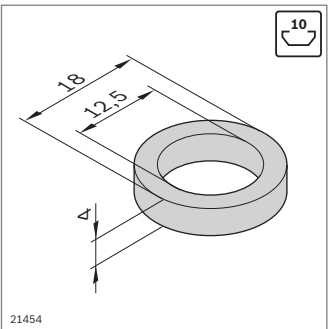


**Cap
Cap with hole**



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

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

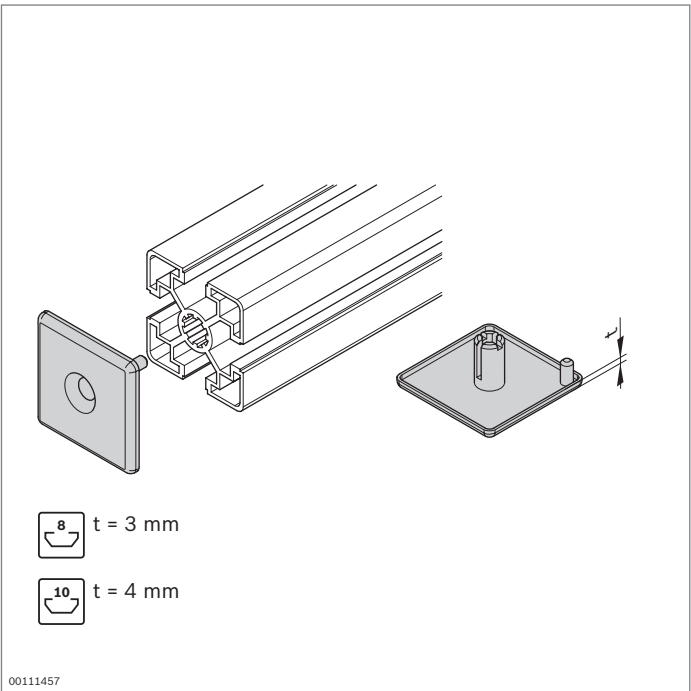


Bearing ring

- ▶ For caps with hole
- ▶ For M12 threads
- ▶ To protect the caps when tightening accessories

Bearing ring	No.
100	3 842 536 321

Material: stainless steel



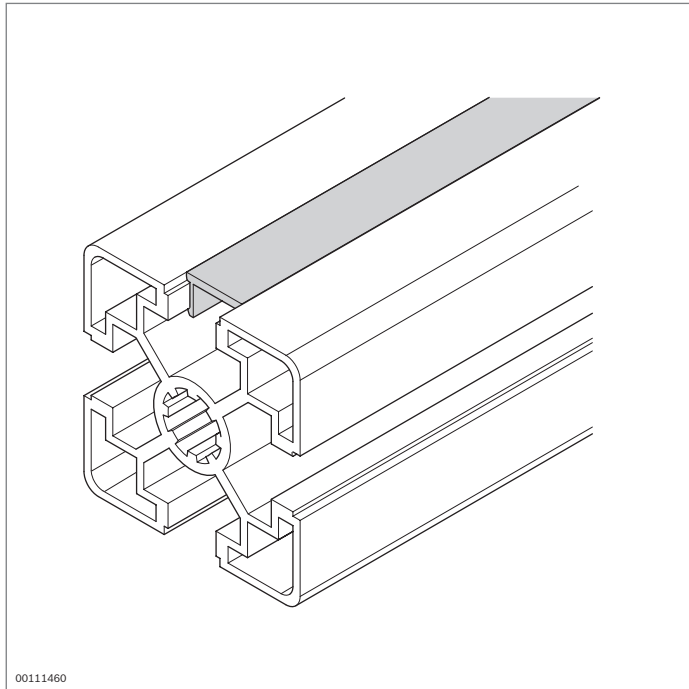
Diecast zinc cover cap

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

Cap		L1xL2	No.	FS
30x30-ZN		30x30	3 842 518 204	FS1
40x40-ZN		40x40	3 842 541 807	FS2
45x45-ZN		45x45	3 842 518 205	FS2

Material: Diecast zinc

FS1	FS2
DIN 7991 M4x16	DIN 7991 M6x16

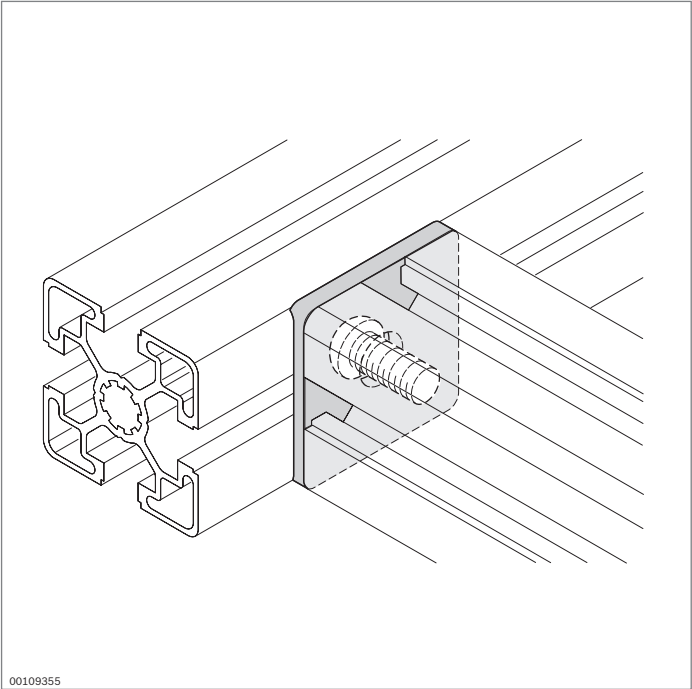


Cover profiles



- For mounting cables
- 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 through a 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	Light gray (RAL 7035)	Soft PVC		10000	1	3 842 542 435
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 
	Black (RAL 9005)	Hard PVC		2000	10	3 842 501 962 
	Light gray (RAL 7035)	Hard PVC		2000	10	3 842 518 375 
	Red (RAL 3020)	Hard PVC		2000	10	3 842 518 376
	Yellow (RAL 1023)	Hard PVC		2000	10	3 842 518 377 
	Green (RAL 6032)	Hard PVC		2000	10	3 842 549 882
	Blue (RAL 5010)	Hard PVC		2000	10	3 842 538 956
	Orange (RAL 2004)	Hard PVC		2000	10	3 842 538 958
	Colorless, transparent	Hard PVC		2000	10	3 842 503 073
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 
	Black (RAL 9005)	Hard PVC		2000	10	3 842 146 901 
	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 
	Green (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

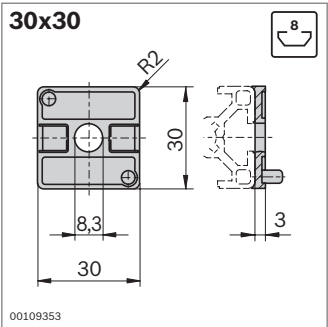


00109355

Radial compensation



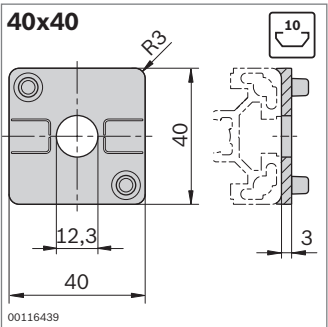
- For avoiding gaps and sharp edges on T-connections between two profiles using a central bolt or quick connector (note spacing of hole from the end of the profile)
- Slot segments can be broken out to support surface elements in the slot
- Important note: the load carrying capacity of the profile connection is reduced when using radial compensation (see “Technical data”, page 19-12)!



00109353

Radial compensation	Slot		No.
30x30	8	10	3 842 524 415

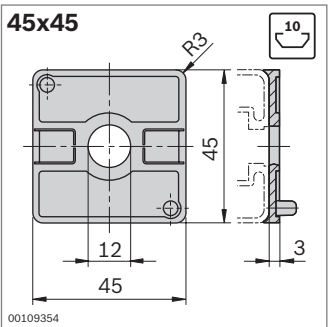
Material: PA; light gray RAL 7035



00116439

Radial compensation	Slot		No.
40x40	10	10	3 842 529 026

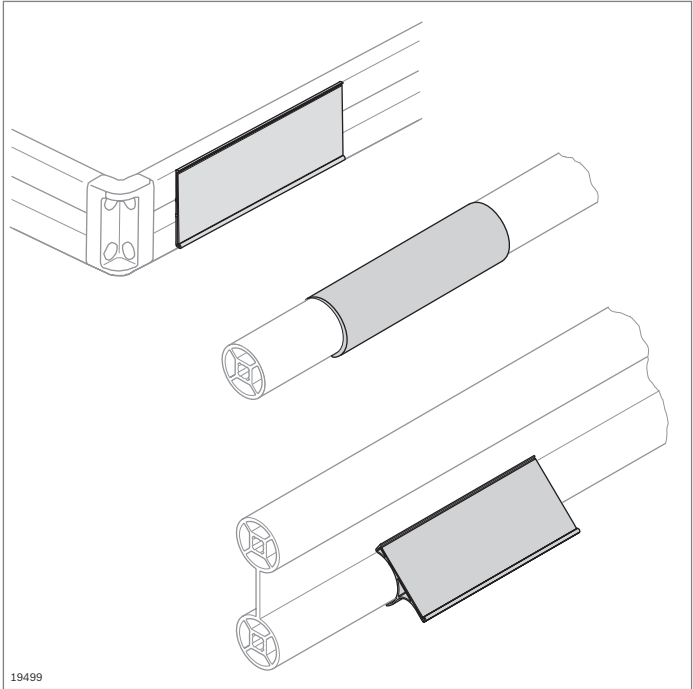
Material: PA; light gray RAL 7035



00109354

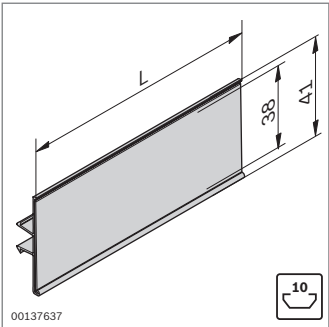
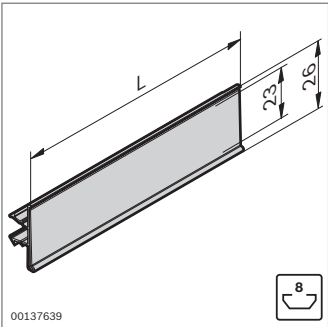
Radial compensation	Slot		No.
45x45	10	10	3 842 524 414 

Material: PA; light gray RAL 7035



Lettering clips

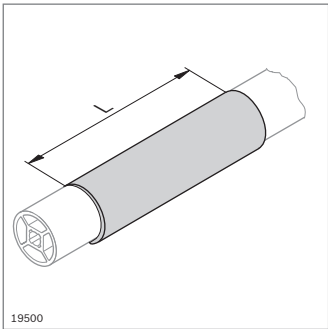
- For labeling profiles and tubular cross ties



- Lettering clip for strut profiles with 8 mm and 10 mm slot

Lettering clip	Slot	L (mm)		No.
	8	2000	20	3 842 537 113
	8	102	20	3 842 537 650
	10	2000	20	3 842 537 116
	10	102	20	3 842 537 651

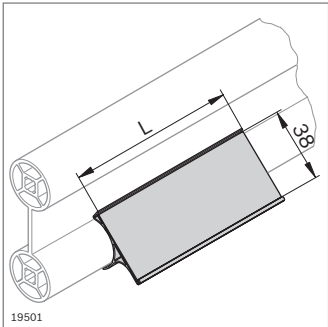
Material: Hard PVC, light gray (RAL 7035), transparent



- Self-adhesive
- Lettering clip with rounded text surface for strut profiles D28; D28L; D28L, N10, and D28x55
- Label height 38 mm

Lettering clip	L (mm)		No.
For tubular cross ties	2000	20	3 842 535 136
	120	20	3 842 538 093

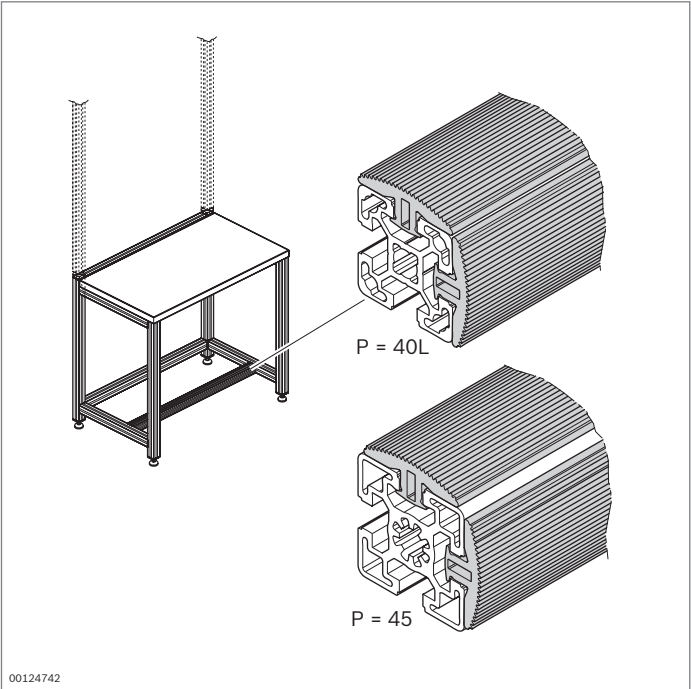
Material: Hard PVC, colorless, transparent



- Self-adhesive
- Lettering clip with flat text surface for strut profiles D28; D28L; D28L, N10, and D28x55

Lettering clip	L (mm)		No.
For tubular cross ties	2000	20	3 842 537 119
	120	20	3 842 537 652

Material: Hard PVC, light gray (RAL 7035), transparent



**Rubber profile
Cloth holder**

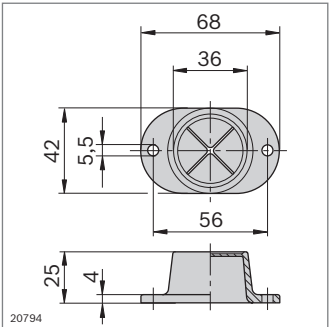
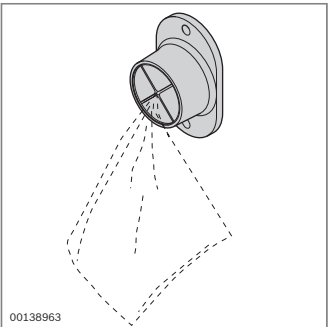


Rubber profile

- To avoid impact on hard edges, such as when setting down impact-sensitive products
- For use as footrest to clip in from top and front on the cross strut of the workstation
- Very simple and inexpensive
- Suitable for the construction of ESD workstations

Rubber profile	L (mm)	ESD	No.
30 ... 2000		1	3 842 994 979 / L
2000		10	3 842 537 135

Material: EPDM; conduction resistance
RA = 1x10³ – 1x10⁹ Ω



Screwed-on cloth holder

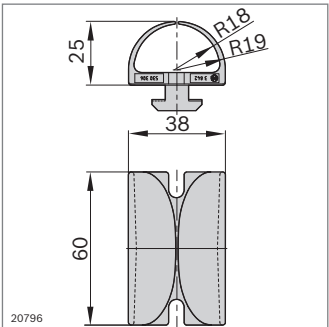
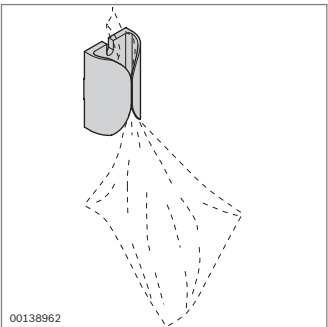
- For hanging cleaning cloths

Required accessories:

- T-nut, 10 mm slot, M5 (**3 842 530 283**) (p. 3-5)
- Screw DIN 7984 M5x12

Screwed-on cloth holder	No.
	1 845 719 000

Material: PE; black



Cloth holder with clamp base

- With injection molded clamp base for direct assembly on strut profile with 10 mm slot
- Can also be used as a cable guide

Cloth holder with clamp base	No.
	3 842 530 306

Material: PA6, black

