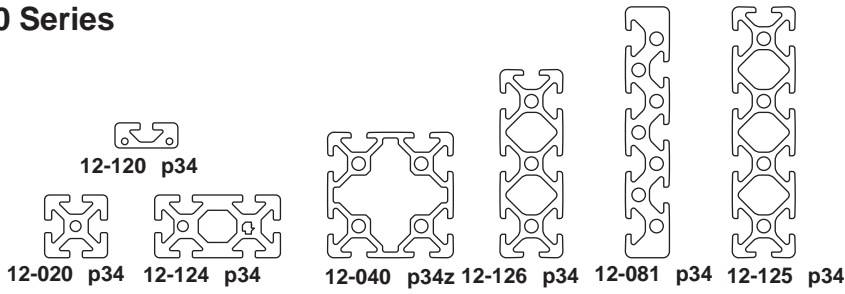
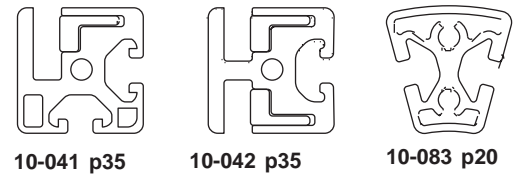


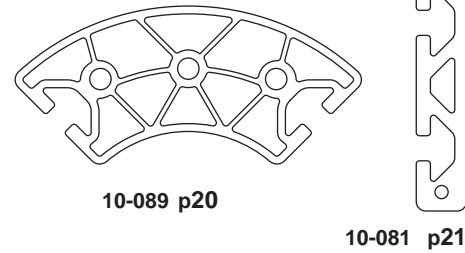
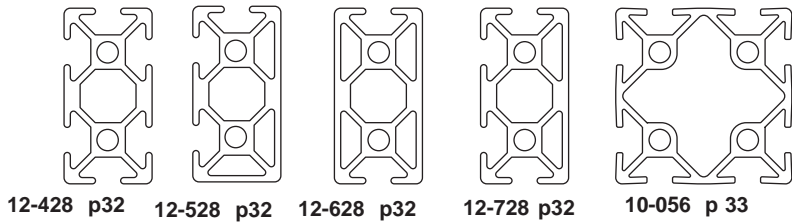
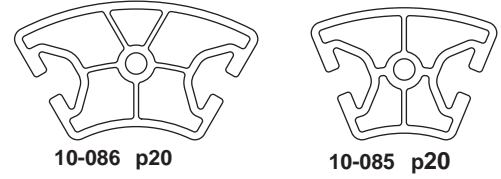
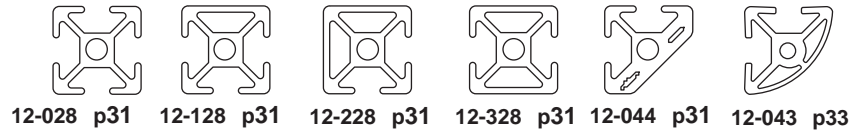
20 Series



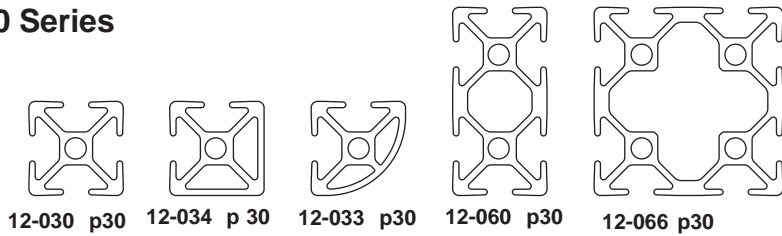
40 Series



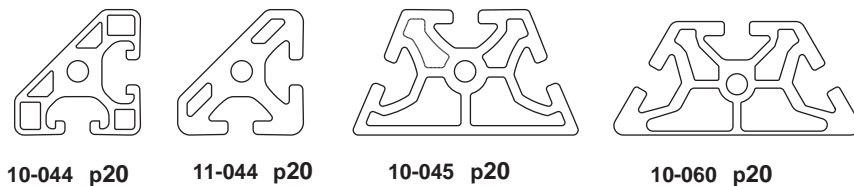
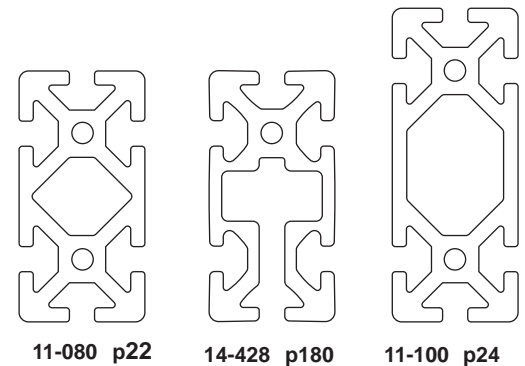
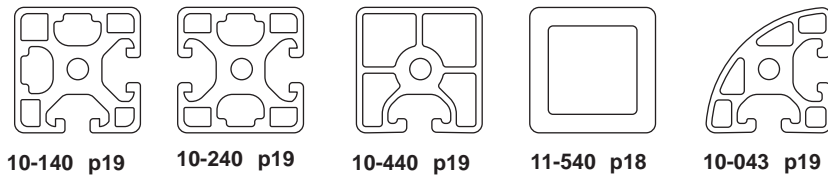
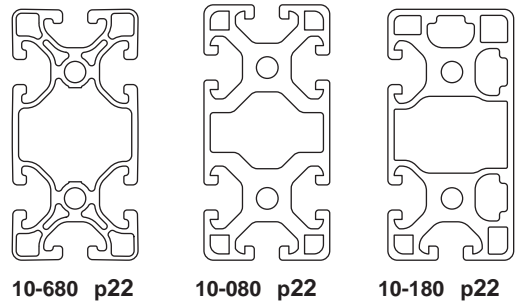
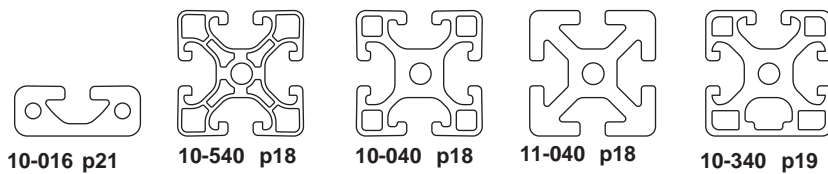
28 Series



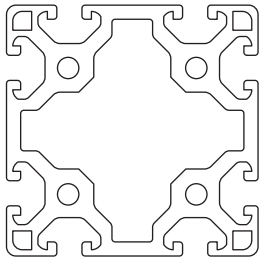
30 Series



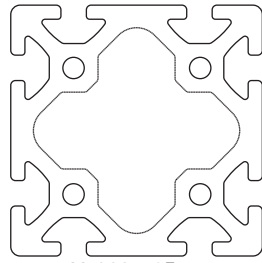
40 Series



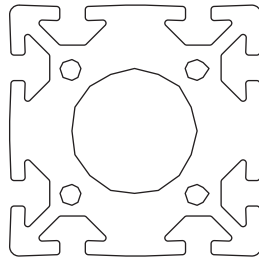
40 Series



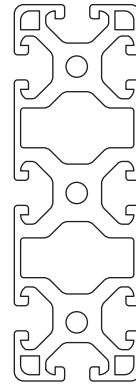
10-088 p25



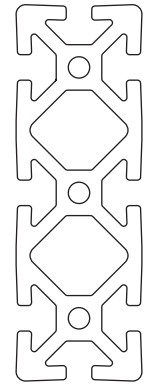
11-088 p25



11-089 p26



10-120 p23



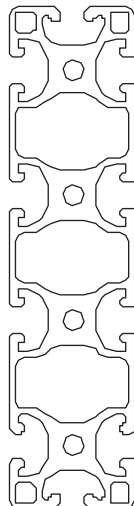
11-120 p23



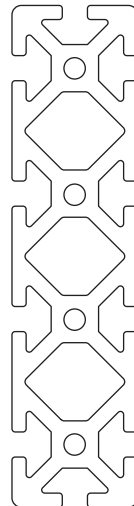
10-161
p21



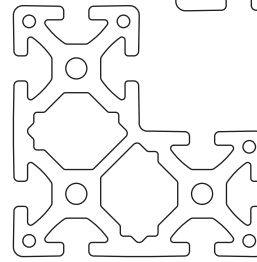
11-128
p24



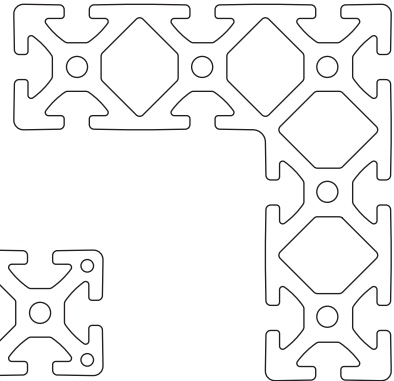
10-164
p23



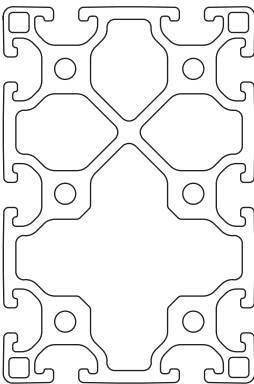
11-140
p23



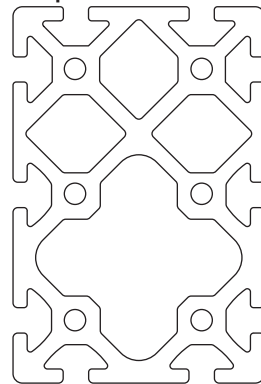
11-084 p24



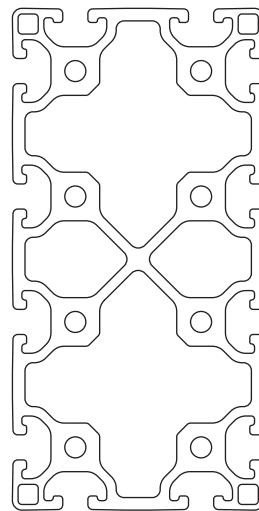
11-124 p24



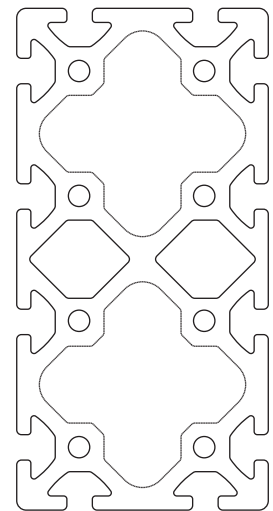
10-122 p25



11-122 p25

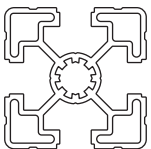


10-160 p26

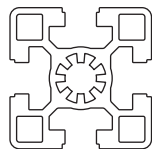


11-160 p26

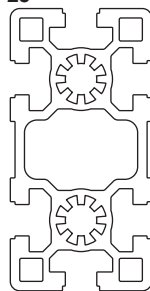
45 Series



14-040 p28

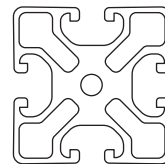


14-045 p28

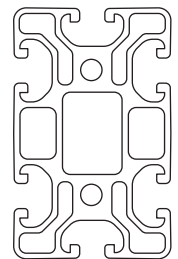


14-090 p28

50 Series

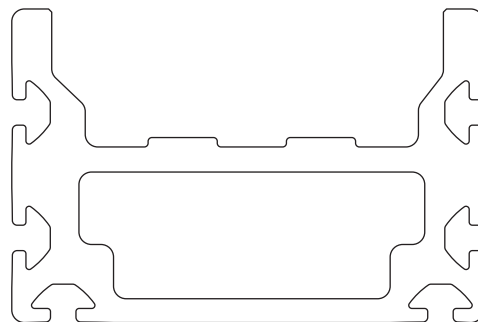
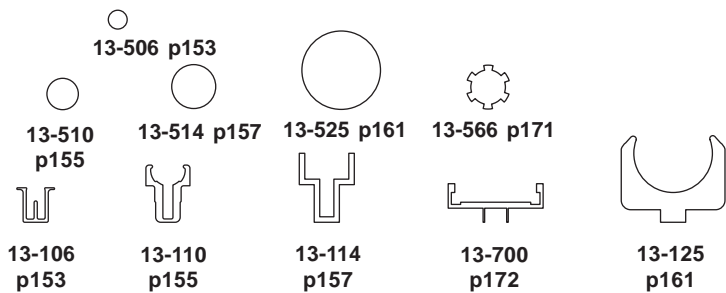


10-550 p27



10-580 p27

Shaft & Clamp

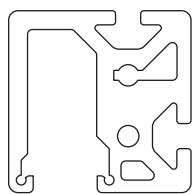


13-230
p179

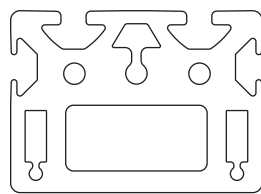
Linear



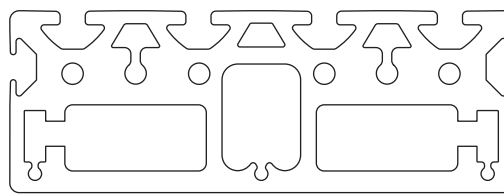
13-406
p179



13-014
p179



13-010
p179



13-011
p179

Conduit



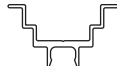
15-046
p 51



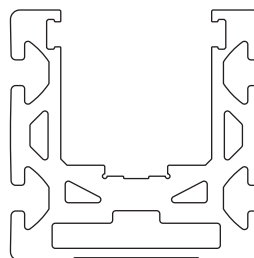
15-040
p51



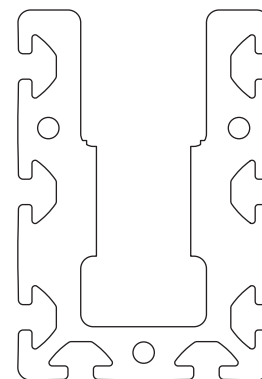
15-041
p52



15-083
p52



13-220
p180



13-025
p179



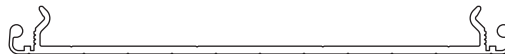
15-086
p51



15-080
p51



15-120
p51



15-160
p51



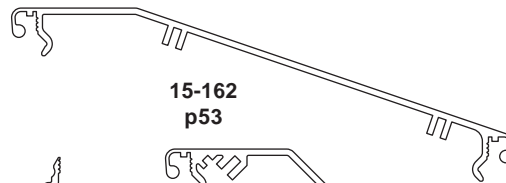
15-081
p52



15-121
p52



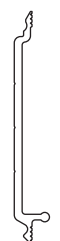
15-161
p52



15-162
p53



15-122
p53



15-082
p53

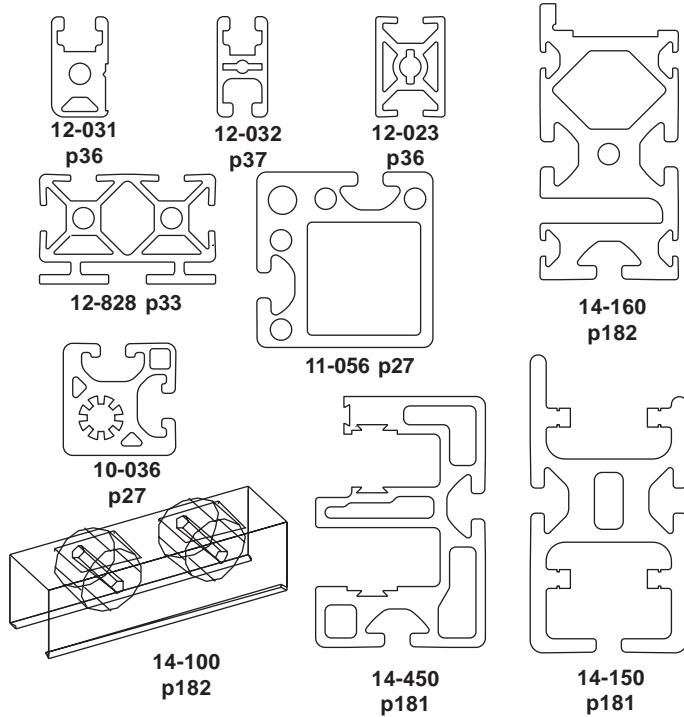


15-042
p53

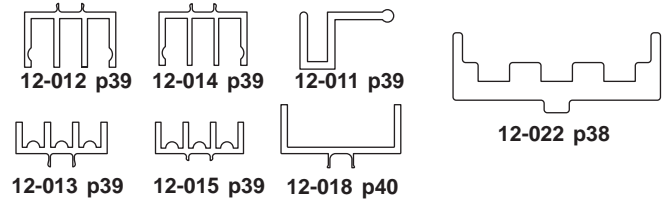


15-085
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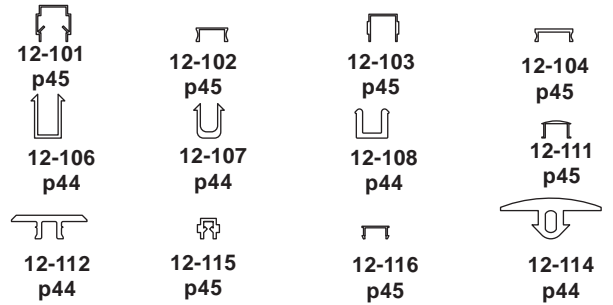
Miscellaneous



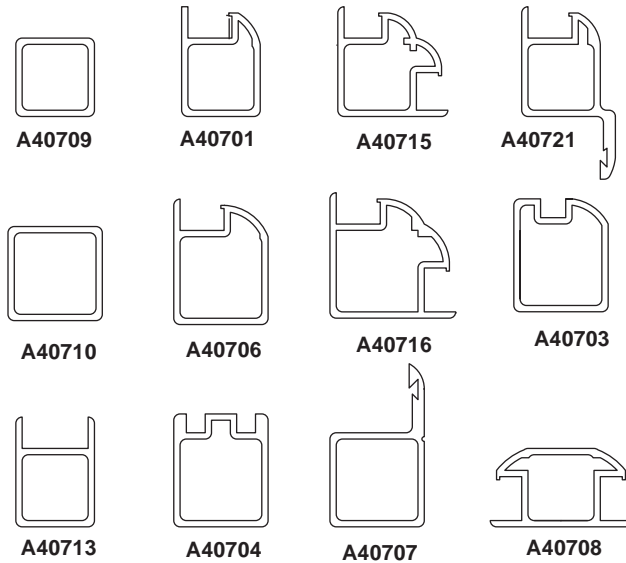
Door



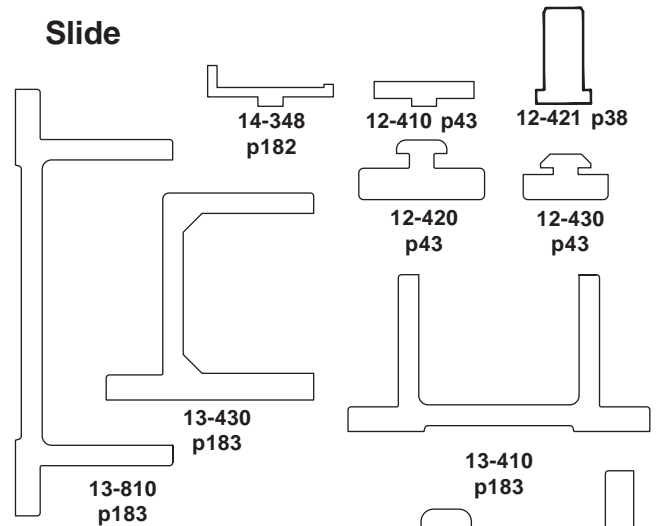
T-Slot Coverings



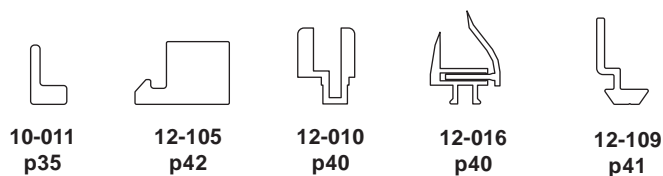
Safety Enclosures



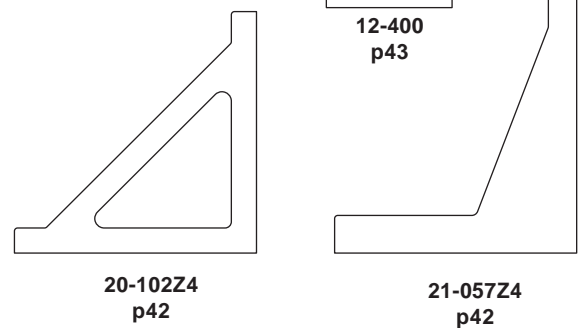
Slide



Panel



Gussets



High Strength Aluminum Profiles

Mechanical Properties

- All structural IPS profiles are prime aluminum, mill-certified with metallurgical properties of 6005-T5, 6061-T6, 6063-T6 or 6105-T5 specifications.
- Yield (0.2 limit) Rm min. 240 N/mm² (35,000 psi)
- Tensile strength Rm min. 260 N/mm² (38,000 psi)
Note: Cross sectional thickness variations of the profiles may influence yield and tensile strength.
- Elongation for 2 in. long specimens:
6005-T5 (thickness up thru 0.124 in.), 6061-T6 (up thru 0.249 in.), 6105-T5 (up thru 0.5 in.) - 8% min
6005-T5 (thickness 0.125-1 in.), 6061-T6 (0.25 in. and over) - 10% min
- Elasticity E approximately 70,000 N/mm² (10,150 kpsi)
- Brinell Hardness approximately 75 HB 2.5/187.5
- The molecular structure of the 6005-T5 alloy is generally stable in an ambient temperature range of:
-40°C to +200°C
-40°F to +392°F
Extreme temperature fluctuations may change the mechanical properties.

Profile Finish

- Clear anodizing: AA M10, C22, A31, Clear
- Black anodizing: AA M10, C22, A34, Black
- Minimum depth: 0.010mm (0.0004 in.)
- Surface hardness: approximately 250 HV, outer surface exposed
- Custom anodizing and protective finishes available

Tolerances

- Outer dimensions depending on size ± (0.2 - 0.4)mm.
- Extrusions conforming to DIN 17 615 specifications and to IPS blueprints.
- Twist per 300mm (1 ft.) length not to exceed 0.25° and total twist over 6m (20 ft.) length not to exceed 1.5°.
- Flatness 0.10mm (0.004 in.) per 25mm (1 in.) of width.
- Straightness 0.32mm (0.0125 in.) per 300mm (1 ft.) of length and not exceeding 3mm (0.12 in.) over 6m (20 ft.) of extrusion.
Maximum bow 3mm (0.12 in.) over 6m (20 ft.)

Defined Rest Points

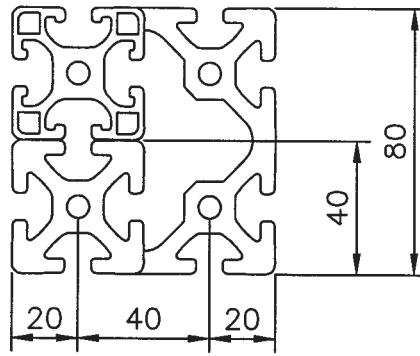


All 40, 30, 28, and 20 series profiles have a face to T-slot slope. Preload in the material elastic range results in a vibration safe connection because the T-slot lips are pulled flush with the connecting surface. The high quality material used insures the profile T-slot will remember its original shape if disassembly is required, making all IPS profiles completely reusable.

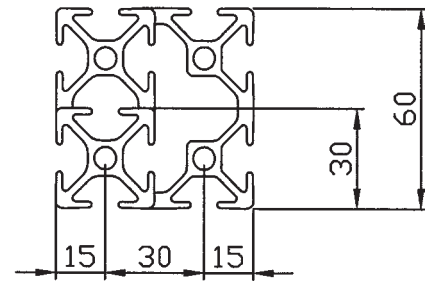
Profile Series	Preload Range
40	0.2 mm
30	0.2 mm
28	0.2 mm
20	0.1 mm

Standard Size Increments

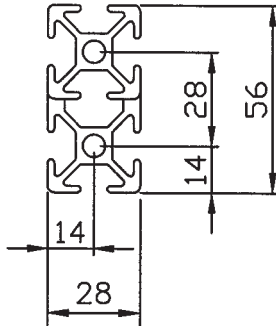
Constant size increment permits combination of all sizes and use of common accessories.



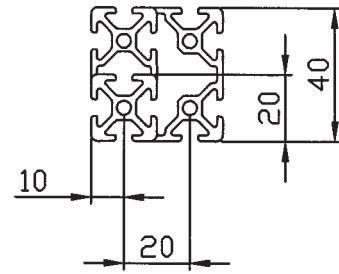
40 Series



30 Series



28 Series



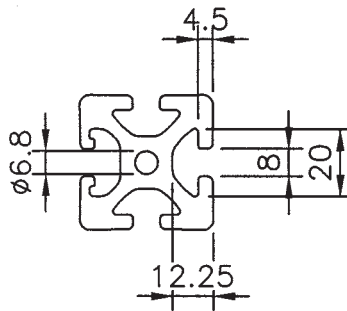
20 Series

Typical Dimensions

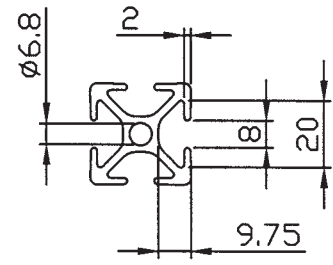
T-slot System

High accuracy of T-slots
 up to 80x40 Profile $8^{+2}mm$
 from 80x80 Profile $8^{+3}mm$

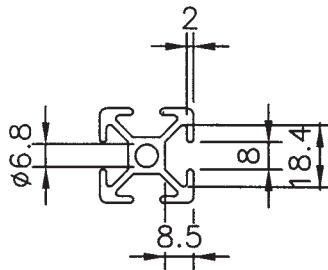
T-slot and pilot hole center to center tolerances are $\pm 0.2mm$



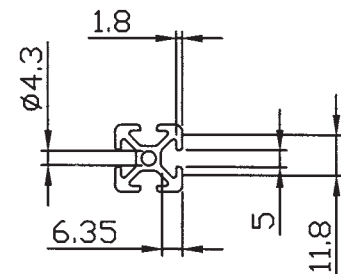
40 Series



30 Series



28 Series



20 Series



Profiles by Part Number

Part #	Page	Description	Moment of Inertia		Section Modulus		Section (cm ²)	Weight (kg/m)
			I _x (cm ⁴)	I _y (cm ⁴)	W _x (cm ³)	W _y (cm ³)		
10-016	21	16x40 Support	1.06	6.97	1.23	3.49	4.33	1.17
10-036	27	36x36 Post	8.55	8.55	4.32	4.32	7.18	1.94
10-040	18	40x40 Standard	9.46	9.46	4.73	4.73	6.65	1.72
10-041	35	40x40 Clamp	11.4	11.4	5.55	5.55	7.4	2.3
10-042	35	40x40 Bi-Clamp	13	11.4	6.2	5.7	8.38	2.26
10-043	19	40x40 Quarter Round	6.85	6.85	3.12	3.12	5.86	1.58
10-044	20	40x40-45° Standard	6.71	6.71	2.98	2.98	5.68	1.53
10-045	20	40-45°	16.27	34.39	7.43	9.62	10.22	2.76
10-060	20	40-60°	12.73	42.73	6.08	10.93	9.35	2.76
10-080	22	80x40 Standard	71.97	17.23	17.99	8.62	11.53	3.18
10-081	21	16x80 Support	2.15	50.76	2.69	12.69	8.13	2.2
10-088	25	80x80 Standard	138.3	138.3	34.58	34.58	20.17	5.45
10-120	23	40x120 Standard	220.54	24.22	36.76	12.11	16.12	4.35
10-122	25	80x120 Standard	421.67	201.95	68.34	50.49	30.15	8.14
10-140	19	40x40 Bi-Slot Corner	8.55	8.55	4.28	4.28	6.12	1.59
10-160	16	160x80 Standard	922.5	271.1	115.3	67.8	38.1	10.29
10-164	23	160x40 Standard	517.25	33.13	64.65	16.56	21.48	5.8
10-180	22	80x40 Tri-Slot Corner	65.87	16.37	16.46	8.19	10.9	2.83
10-240	19	40x40 Bi-Slot Midframe	9.36	9.36	4.68	4.68	7.1	1.92
10-340	19	40x40 Tri-Slot	9.13	9.82	4.57	4.78	6.75	1.82
10-440	19	40x40 Mono-Slot	8.42	8.66	4.07	4.33	5.77	1.56
10-540	18	40x40 Light	7.41	7.41	3.71	3.71	4.87	1.35
10-550	27	50x50	19.7	19.7	7.88	7.88	9.81	2.71
10-580	27	50x80	78.75	30.5	19.69	12.2	13.58	3.75
10-680	22	80x40 Light	60.05	15.4	15.01	7.7	8.9	2.4
11-040	18	40x40 Heavy	14.18	14.18	7.09	7.09	9.22	2.53
11-044	21	40x40-45° Heavy	9.4	9.4	4.07	4.07	7.33	1.98
11-056	27	56x56 Heavy	45.62	45.62	14.81	14.81	13.07	3.53
11-080	22	80x40 Heavy	102	26.73	25.5	13.37	16.59	4.58
11-088	25	80x80 Heavy	185.2	185.2	46.3	46.3	26.01	7.02
11-100	24	40x100 Heavy	190.29	30.84	38.06	15.42	17.88	4.94
11-122	25	80x120 Heavy	575.07	274.46	92.75	68.61	40.08	10.82
11-128	24	160x28 Heavy	732.11	20.45	91.51	14.36	31.33	8.46
11-140	23	160x40 Heavy	749.51	54.8	93.6	27.4	32.3	8.72
11-160	26	160x80 Heavy	1215.79	357.51	151.97	89.38	51.72	13.96
11-540	18	40x40 Heavy Square	15.81	15.81	7.9	7.9	7.99	2.16
12-020	34	20x20, 20 Series	0.72	0.72	0.72	0.72	1.85	0.52
12-028	31	28x28 Quad-Slot	2.41	2.41	1.72	1.72	3.01	0.81
12-030	30	30x30	3.13	3.13	2.09	2.09	3.31	0.9
12-033	30	30x30 Quarter Round	2.71	2.71	1.70	1.70	3.26	0.88
12-034	30	30x30 Bi-Slot Corner	3.49	3.49	2.22	2.22	3.68	0.99
12-040	34	40x40, 20 Series	8.55	8.55	4.27	4.27	4.9	1.32
12-044	31	28x28-45°	2	2	1.3	1.3	2.89	0.78
12-060	30	30x60	21.1	6	7.04	4.01	6.1	1.65
12-066	30	60x60	39	39	13	13	9.61	2.6
12-081	34	80x14, 20 Series	41.01	1.14	10.25	1.57	6.65	1.8
12-120	34	20x10	0.53	0.12	0.53	0.24	1.29	0.35
12-124	34	20x40	5.01	1.27	2.5	1.27	3.18	0.86
12-125	34	20x80	36.4	2.7	9.1	2.7	6.19	1.67
12-126	34	20x60	16.02	2.04	5.34	2.04	4.73	1.28
12-128	31	28x28 Tri-Slot	2.69	2.41	1.82	1.72	3.18	0.86
12-228	31	28x28 Bi-Slot Corner	2.71	2.71	1.84	1.84	3.37	0.91
12-328	31	28x28 Bi-Slot Midframe	3.02	2.43	2.16	1.73	3.37	0.91
12-428	32	28x56 Open-Slot	4.67	16.56	3.33	5.91	5.66	1.53
12-528	32	28x56 Tri-Slot	5.28	18.61	3.57	6.46	6.21	1.68
12-628	32	28x56 Bi-Slot	5.92	18.05	4.23	6.44	6.39	1.73
12-728	32	28x56 Quad-Slot	5.26	17.3	3.55	6.18	6.03	1.63
14-040	28	45x45 Light	11.23	11.23	4.99	4.99	5.69	1.57
14-045	28	45x45	15.81	15.81	7.03	7.03	8.25	2.23
14-046	28	45x60 Light	17.3	28.52	7.69	9.51	8.88	2.4
14-090	28	45x90	32.2	124.4	14.31	26.74	15.25	4.12

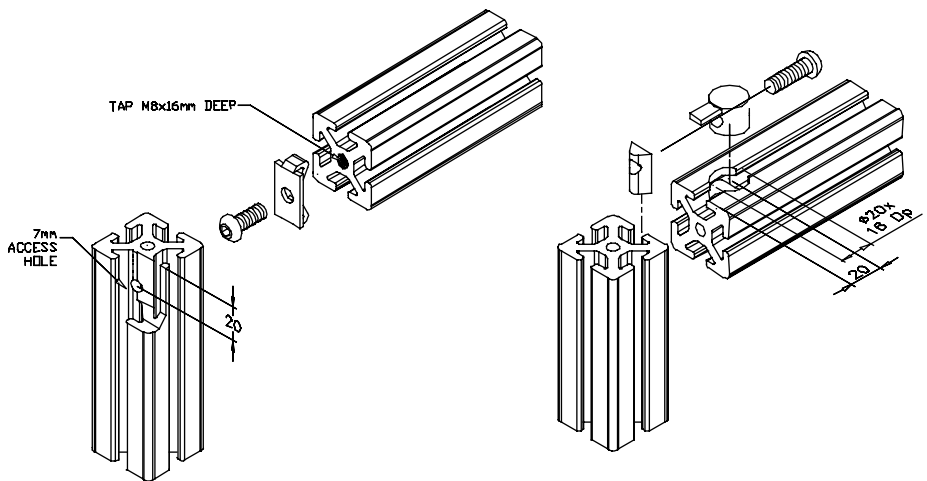
1

40 Series Profiles



1

Typical Servicing Dimensions



Servicing for Standard Fastening Set 40 (20-002, 20-002SS, 20-014) requires M8x16 tap and 7mm access hole through the profile.
American Fastening Set (25-003) requires 5/16"-18 tap.

Servicing for Universal Fastening Set 40 (20-004, 25-004) requires bore 20mm x 16mm deep into the slot.
Pneumatic Universal Fastening Set (20-011) requires bore 20mm x 6mm deep.

40 Series

Application

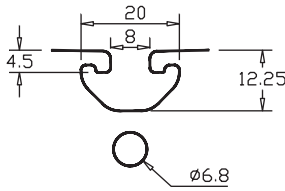
Profile for general engineering structures, weight optimized.

Basic fasteners: Standard & Heavy profile: 20-002, 20-004, 20-006,25-003,25-004

Light profile: 20-014, 20-011, 20-012

Technical Data

Al, clear or black anodized



Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
10-540	7.41	7.41	3.71	3.71	4.87	1.35
10-040	9.46	9.46	4.73	4.73	6.65	1.72
11-040	14.18	14.18	7.09	7.09	9.22	2.53

Description

Unit

Part

Clear **Black**

Profile 40x40 Light	cut off max. 6M	10-540	10-540B
	pkg of 16 at 3M ea.	10-540-3	10-540B3
	pkg of 16 at 6M ea.	10-540-6	10-540B6
Profile 40x40 Standard	cut off max. 6M	10-040	10-040B
	pkg of 16 at 3M ea.	10-040-3	10-040B3
	pkg of 16 at 6M ea.	10-040-6	10-040B6
Profile 40x40 Heavy	cut off max. 6M	11-040	
	pkg of 16 at 3M ea.	11-040-3	
	pkg of 16 at 6M ea.	11-040-6	

Saw cut necessary for cut to length

19-001

End Cap 40x40

1 pc

18-813

Secure End Cap 40x40

1 pc

18-913

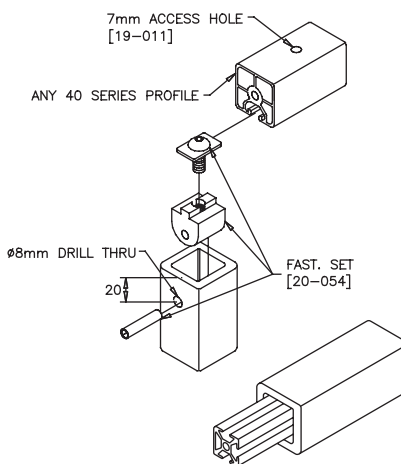
Profile 40x40 Heavy Square

Heavy duty profile for engineering structures where T-slots are not desirable. A 28x28 profile can slide into the inside cavity. Accessories, such as hinges, may be attached anywhere with required machining. Attachment to T-slot of a 40 series profile requires machining (19-054) and fastening set (20-054).

Technical Data

Al, clear anodized

Fastening set 20-054 includes: aluminum block, M8 x 20 BHCS, flat plate, spring tension pin 8 x 40.



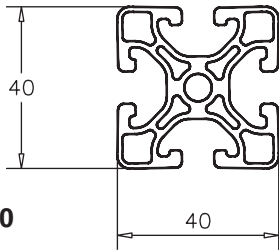
Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
11-540	15.81	15.81	7.90	7.90	7.99	2.16

Description

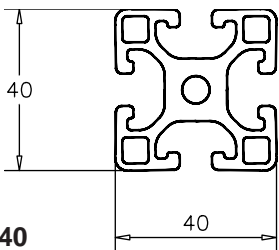
Unit

Part

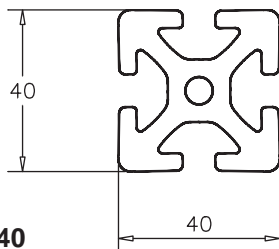
Profile 40x40 Heavy Square	cut off max. 6M	11-540
	pkg of 16 at 6M ea.	11-540-6
Saw cut necessary for cut to length		19-001
Fastening Set Pfl 40x40 Heavy Sq	1 set	20-054
Service to mount Fast. Set 20-054	each	19-054
End Cap 40x40 Heavy Square	1 pc	18-805



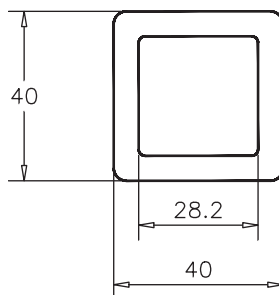
10-540



10-040

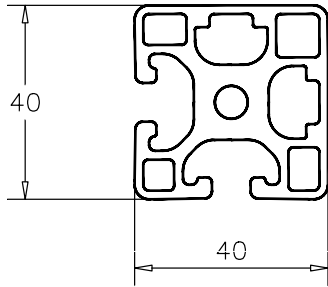


11-040

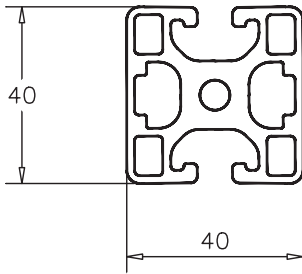


11-540

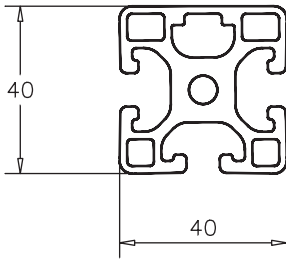
40 Series



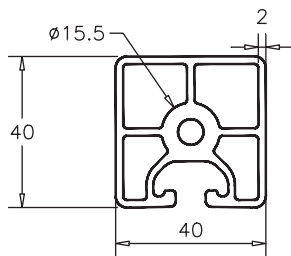
10-140



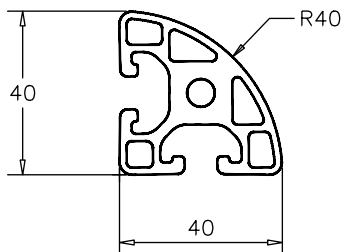
10-240



10-340



10-440

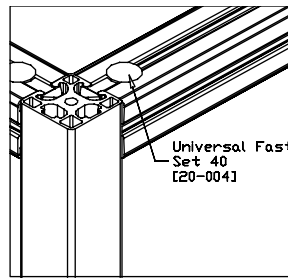


10-043

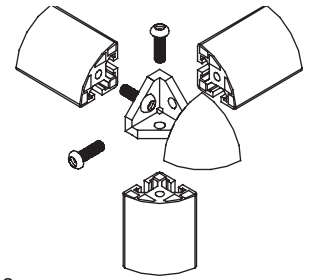
1 Universal Fastening Set 20-004 on 40x40 Bi-Slot Corner profile

2 Connecting three 40x40 Quarter Round profiles using Corner Connector 22-146 and Connector Cap 18-821 (p. 70)

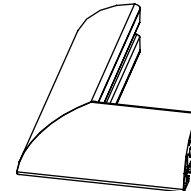
3, 4 Connecting two 40x40 Quarter Round profiles using miter cut and 90° miter connector 20-128Z1 (p.62)



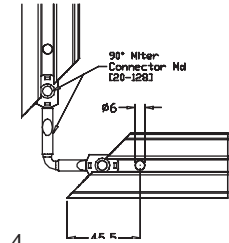
1



2



3



4

Application

General engineering structures, weight optimized. Particularly useful where smooth, aesthetic appearance is desired. Use Light Standard Fastener (20-014). Profile 10-440 uses Flat Plate Fastener (20-028).

Technical Data

Al, clear or black anodized

Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
10-140	8.55	8.55	4.28	4.28	6.12	1.59
10-240	9.36	9.36	4.68	4.68	7.10	1.92
10-340	9.13	9.82	4.57	4.78	6.75	1.82
10-440	8.42	8.66	4.07	4.33	5.77	1.56
10-043	6.85	6.85	3.12	3.12	5.86	1.58

Description

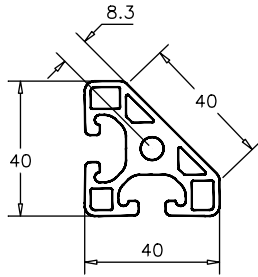
Unit

Part

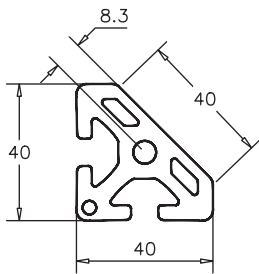
Clear Black

Profile 40x40 Bi-Slot Corner	cut off max. 6M	10-140	10-140B
	pkg of 16 at 3M ea.	10-140-3	10-140B3
	pkg of 16 at 6M ea.	10-140-6	10-140B6
Profile 40x40 Bi-Slot Midframe	cut off max. 6M	10-240	10-240B
	pkg of 16 at 3M ea.	10-240-3	10-240B3
	pkg of 16 at 6M ea.	10-240-6	10-240B6
Profile 40x40 Tri-Slot	cut off max. 6M	10-340	10-340B
	pkg of 16 at 3M ea.	10-340-3	10-340B3
	pkg of 16 at 6M ea.	10-340-6	10-340B6
Profile 40x40 Mono-Slot	cut off max. 6M	10-440	
	pkg of 16 at 3M ea.	10-440-3	
	pkg of 16 at 6M ea.	10-440-6	
Profile 40x40 Quarter Round	cut off max. 6M	10-043	
Saw cut necessary for cut to length			19-001
End Cap 40x40	1 pc		18-813
Secure End Cap 40x40	1 pc		18-913
End Cap 40x40 Quarter Round	1 pc		18-843

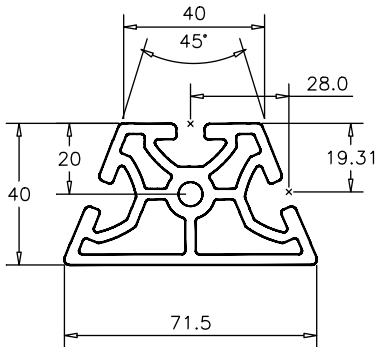
40 Series



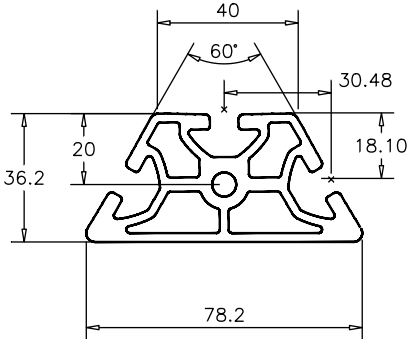
10-044



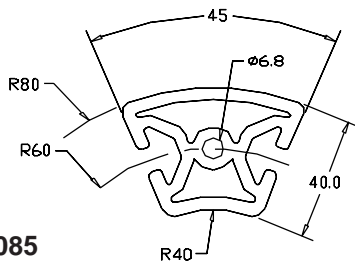
11-044



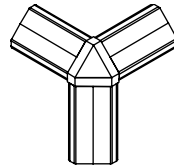
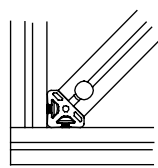
10-045



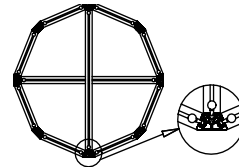
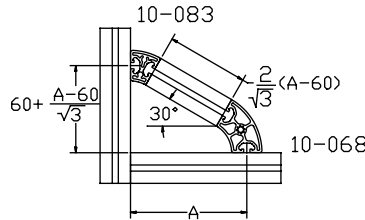
10-060



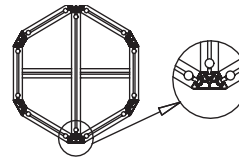
10-085



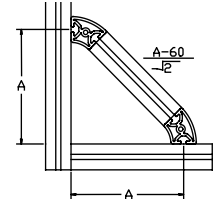
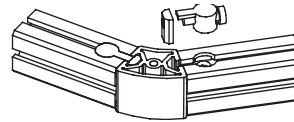
Profile 40x40x45° used in 45° Corner Elements (p.75) and with 40x40-45° Connector (p.70)



Profile 40-45° for octagonal structures



Profile 40-60° for hexagonal structures



Application

Profiles 40x40-45° suitable for gusset applications or placing profiles at 45° angle within a structure. Profiles 40-45° and 40-60° can be used for polygonal shaped structures. Profile, R40/80 are ideal for constructing cases, tables and angled bases

Technical Data

Al, clear or black anodized

Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
10-044	6.71	6.71	2.98	2.98	5.68	1.53
11-044	9.40	9.40	4.07	4.07	7.33	1.98
10-045	16.27	34.39	7.43	9.62	10.22	2.76
10-060	12.73	42.73	6.08	10.93	9.35	2.76

Description

Unit

Part #

Clear Black

Profile 40x40-45° Standard

cut off max. 6M
pkg of 12 at 3M ea.
pkg of 12 at 6M ea.

10-044 10-044B
10-044-3 10-044B3
10-044-6 10-044B6

Profile 40x40-45° Heavy

cut off max. 6M
pkg of 9 at 3M ea.
pkg of 9 at 6M ea.

11-044 11-044B
11-044-3 11-044B3
11-044-6 11-044B6

Profile 40-45°

cut off max. 6M
pkg of 4 at 3M ea.
pkg of 4 at 6M ea.

10-045
10-045-3
10-045-6

Profile 40-60°

cut off max. 6M
pkg of 4 at 3M ea.
pkg of 4 at 6M ea.

10-060
10-060-3
10-060-6

Profile R40/80-30°

cut off max. 6M

10-083

Profile R40/80-45°

cut off max. 6M

10-085

Profile R40/80-60°

cut off max. 6M

10-086

Profile R40/80-90°

cut off max. 6M

10-089

Saw cut necessary for cut to length

19-001

End Cap 40x40-45°

1 pc

18-820

End Cap 40-45°

1 pc

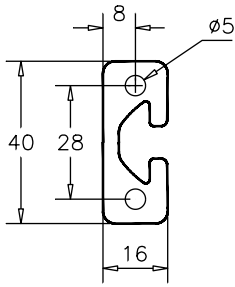
18-845

End Cap 40-60°

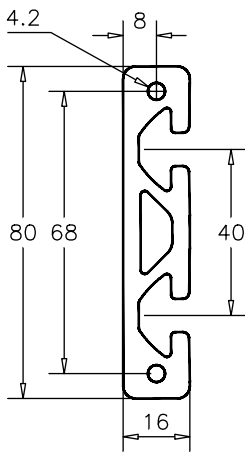
1 pc

18-860

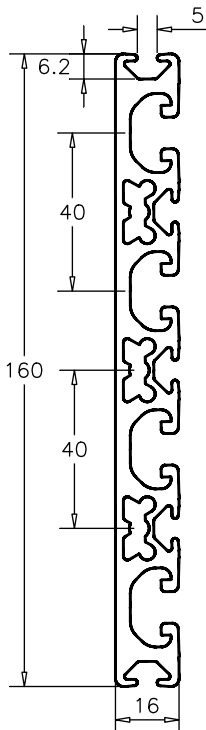
40 Series



10-016



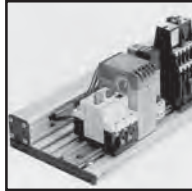
10-081



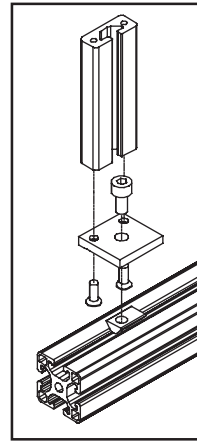
10-161



1



2



3

- 1 Profile 16x80 on Bearing Units 6
- 2 Profile 16x160 used for electronic mounting
- 3 Mounting element for Profile 16x40. See page 74.



Profile 16x160 used in pneumatic training station (photo courtesy of National Technology Transfer, Inc.)

Application

Light construction and support for such items as valves, limit switches, and heavy duty handle (see "handles"). Profile 16x80 can be used as base plate on Bearing Units 6. Large surface area of the 16x160 with 8mm and 5mm T-slots provides convenient attachment of multiple accessories. Ideal as a fixture plate for pneumatics, electrical valves and switches. Profile 16x160 should not be used as a structural member.

Technical Data

Al, clear or black anodized

Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
10-016	6.97	1.06	3.49	1.23	4.33	1.17
10-081	50.76	2.15	12.69	2.69	8.13	2.20
10-161	287.1	3.66	35.89	4.10	12.78	3.45

Description	Unit	Part #	
		Clear	Black
Profile 16x40	cut off max. 6M	10-016	10-016B
	pkg of 10 at 3M ea.	10-016-3	10-016B3
	pkg of 10 at 6M ea.	10-016-6	10-016B6
Profile 16x80	cut off max. 6M	10-081	
	pkg of 10 at 3M ea.	10-081-3	
	pkg of 10 at 6M ea.	10-081-6	
Profile 16x160	cut off max. 6M	10-161	
	pkg of 10 at 3M ea.	10-161-3	
	pkg of 10 at 6M ea.	10-161-6	
Saw cut necessary for cut to length on 16x40 & 16x80		19-001	
Saw cut necessary for cut to length on 16x160		19-003	
End Cap 16x40	1 pc	18-811	
End Cap 16x80	1 pc	18-812	



40 Series

Application

General engineering structures, weight optimized. 10-080 and 11-080 are suitable for construction of linear slides with IPS roller systems; they can also be used for compressed air piping.

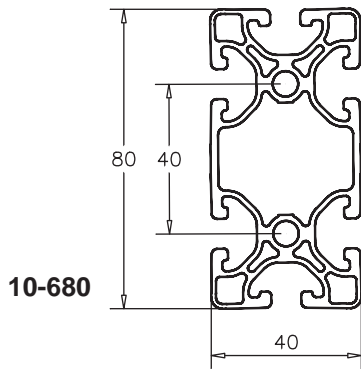
Basic fasteners: Standard & Heavy profile: 20-002, 20-004, 20-006, 25-003, 25-004

Light profile: 20-014, 20-011, 20-012

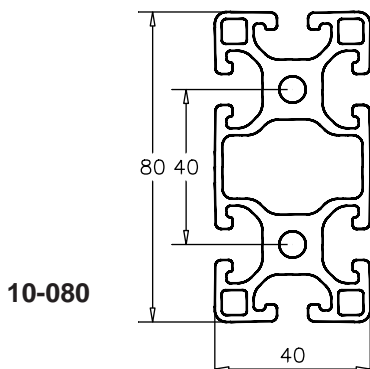
Technical Data

Al, clear or black anodized

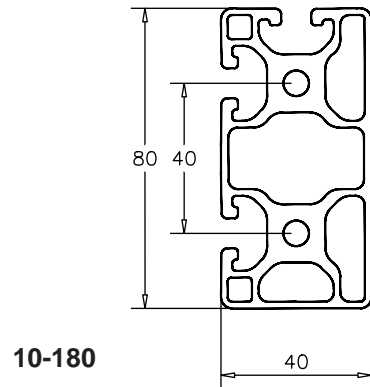
Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
10-680	60.05	15.40	15.01	7.70	8.90	2.40
10-080	71.97	17.23	17.99	8.62	11.53	3.18
10-180	65.87	16.37	16.46	8.19	10.90	2.83
11-080	102.00	26.73	25.50	13.37	16.59	4.58



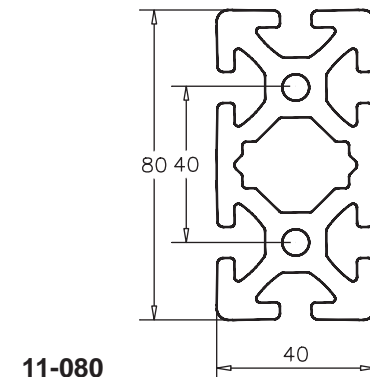
10-680



10-080



10-180



11-080

Description

Unit

Part

Clear

Black

Profile 80x40 Light

cut off max. 6M
pkg of 8 at 3M ea.
pkg of 8 at 6M ea.

10-680
10-680-3
10-680-6

Profile 80x40 Standard

cut off max. 6M
pkg of 8 at 3M ea.
pkg of 8 at 6M ea.

10-080
10-080-3
10-080-6

Profile 80x40 Tri-Slot Corner

cut off max. 6M
pkg of 8 at 3M ea.
pkg of 8 at 6M ea.

10-180
10-180-3
10-180-6

Profile 80x40 Heavy

cut off max. 6M
pkg of 8 at 3M ea.
pkg of 8 at 6M ea.

11-080
11-080-3
11-080-6

Saw cut necessary for cut to length

19-001

End Cap 80x40

1 pc

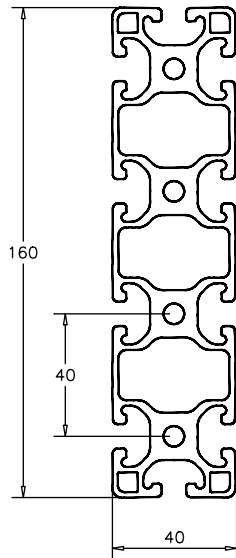
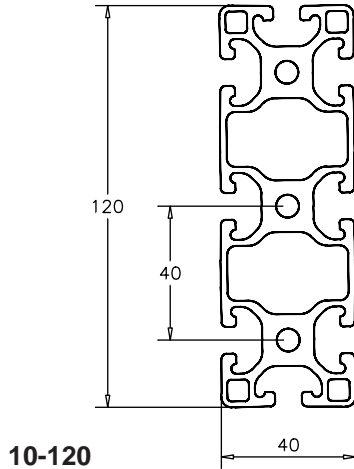
18-814

Secure End Cap 80x40

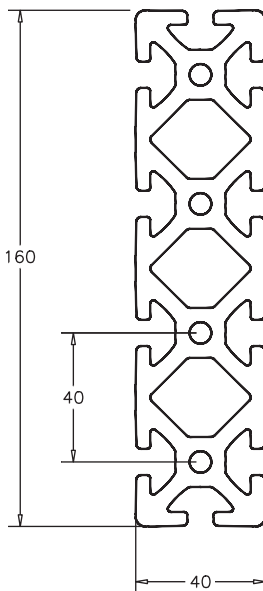
1 pc

18-914

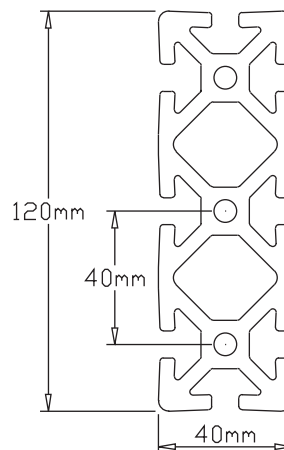
40 Series



10-164



11-140



11-120

Application

Suitable as clamping and mounting surface (fixturing), vertical structural support, general heavy duty structures. Also used as header for bearing block assemblies for Linear System 14 or 25. Suitable for multiple channel compressed air piping.

Technical Data

Al, clear anodized

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
10-120	220.54	24.22	36.76	12.11	16.12	4.35
11-120	306.00	38.16	51.00	19.08	22.61	6.13
10-164	517.25	33.13	64.65	16.56	21.48	5.80
11-140	749.51	54.80	93.60	27.40	32.30	8.72

Description

Profile 120x40 Standard

Unit

cut off max. 6M10-120
pkg of 4 at 3M ea.
pkg of 4 at 6M ea.

Part

10-120-3
10-120-6

Profile 120x40 Heavy

cut off max. 6M11-120

Profile 160x40 Standard

cut off max. 6M

10-164

Profile 160x40 Heavy

cut off max. 6M
pkg of 4 at 3M ea.
pkg of 4 at 6M ea.

11-140
11-140-3
11-140-6

Saw cut necessary for cut to length

19-003

End Cap 120x40

1 pc

18-840

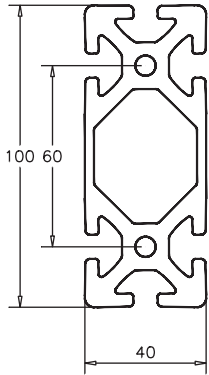
End Cap 160x40

1 pc

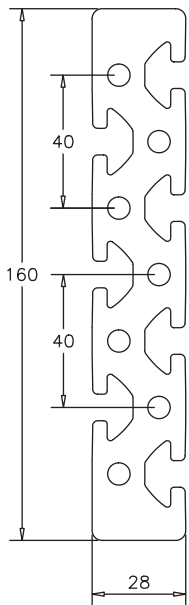
18-817



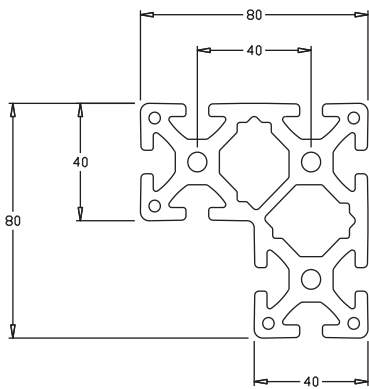
40 Series



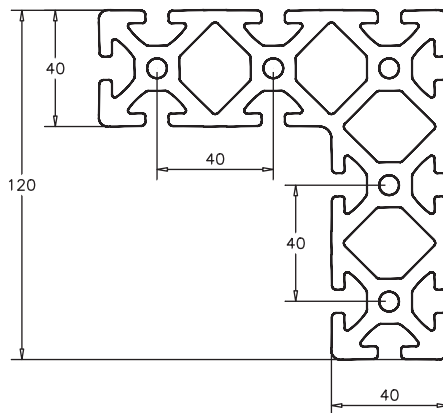
11-100



11-128



11-084



11-124

Application

11-100 and 11-128: General engineering structures, heavy duty applications. 160x28 is suitable as clamping and mounting surface (fixturing) used as header for bearing block assemblies for Linear System 14 or 25.

11-084 and 11-124: General engineering structures with very high loads or wide spans. Useful as load bearing corner or post. Suitable for multiple channel compressed air piping.

Technical Data

Al, clear anodized

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
11-100	190.29	30.84	38.06	15.42	17.88	4.94
11-128	73.11	20.45	91.51	14.36	31.33	8.46
11-084	129.37	129.37	27.94	27.94	23.23	6.27
11-124	498.1	498.1	66.2	66.2	40.3	10.9

Description

Profile 40x100 Heavy

Unit

cut off max. 6M
pkg of 8 at 3M ea.
pkg of 8 at 6M ea.

Part

11-100
11-100-3
11-100-6
19-002

Saw cut necessary cut to length

Profile 160x28 Heavy

cut off max. 6M
pkg of 5 at 3M ea.
pkg of 5 at 6M ea.

11-128
11-128-3
11-128-6
19-003

Saw cut necessary cut to length

Profile 80x80x40 Corner

per meter

11-084

Saw cut necessary cut to length

19-002

Profile 120x120x40 Corner

per meter

11-124

Saw cut necessary for cut to length

19-003

End Cap 40x100

1 pc

18-804

End Cap 160x28

1 pc

18-816

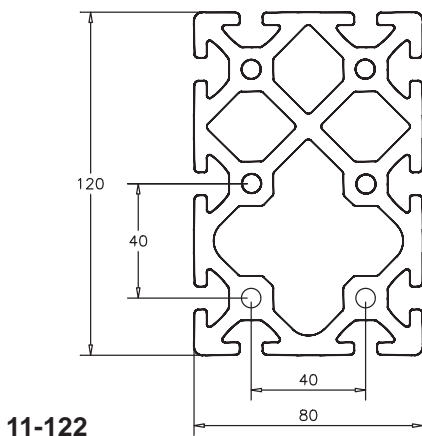
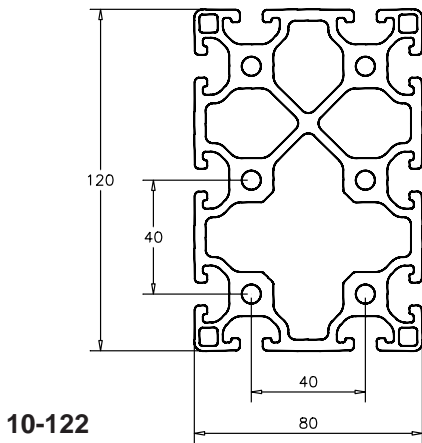
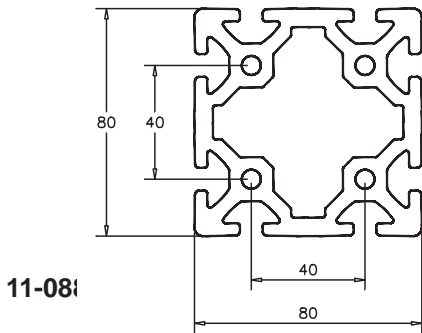
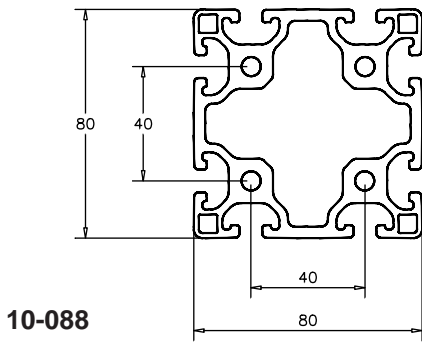
40 Series

Application

General engineering structures, heavy duty applications. For construction of linear slides with IPS roller systems, can also be used for compressed air piping.

Technical Data

Al, clear or black anodized



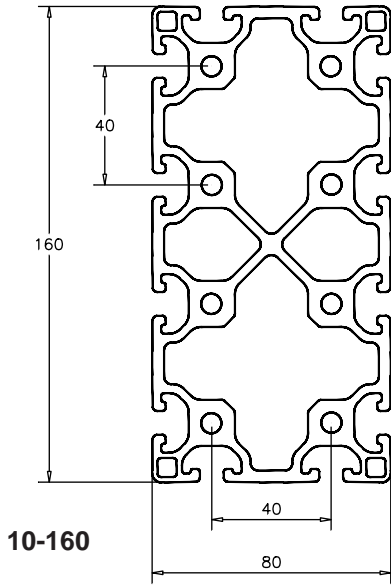
Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
10-088	138.30	138.30	34.58	34.58	20.17	5.45
11-088	186.89	186.89	46.72	46.72	26.35	7.11
10-122	421.67	201.95	68.34	50.49	30.15	8.14
11-122	575.07	274.46	92.75	68.61	40.08	10.82

Description	Unit	Part #	
		Clear	Black
Profile 80x80 Standard	cut off max. 6M	10-088	10-088B
	pkg of 4 at 3M ea.	10-088-3	10-088B3
	pkg of 4 at 6M ea.	10-088-6	10-088B6
Profile 80x80 Heavy	cut off max. 6M	11-088	
	pkg of 4 at 3M ea.	11-088-3	
	pkg of 4 at 6M ea.	11-088-6	
Saw cut necessary for cut to length			19-002
Profile 80x120 Standard	cut off max. 6M	10-122	
	pkg of 4 at 3M ea.	10-122-3	
Profile 80x120 Heavy	cut off max. 6M	11-122	
	pkg of 4 at 3M ea.	11-122-3	
	pkg of 4 at 6M ea.	11-122-6	
Saw cut necessary for cut to length			19-003
End Cap 80x80	1 pc		18-815
Secure End Cap 80x80	1 pc		18-915
End Cap 80x120	1 pc		18-841

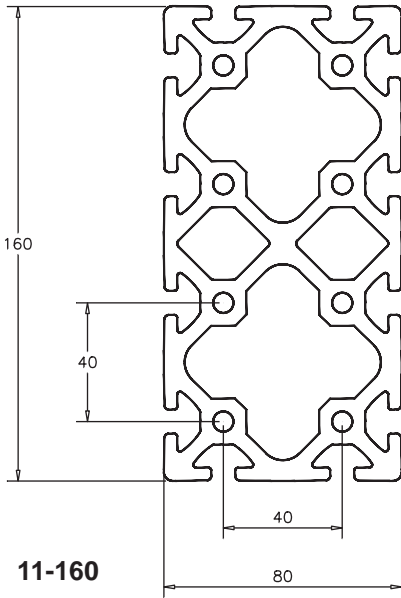


40 Series

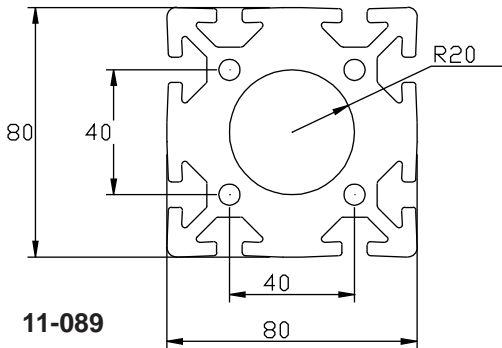
1



10-160



11-160



11-089

Application

General engineering structures with very high loads or wide spans. For construction of guides and slides with the Linear System 14 and 25. Suitable for multiple channel compressed air piping. The 11-089 center area of the profile can be used to house electrical or air lines, or as a manifold for pressurized air (150 psi maximum). A support bearing can be pressed into the center diameter to hold shafts or spindles for rotary or linear motion.

Technical Data

Al, clear anodized

Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
10-160	922.50	271.10	115.30	67.80	38.10	10.29
11-160	1215.79	357.51	151.97	89.38	51.72	13.96
11-089	215.85	215.85	53.96	53.96	36.26	9.83

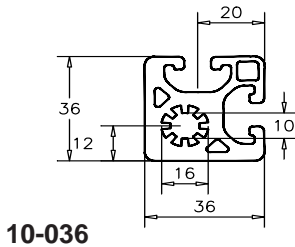
Description

Unit

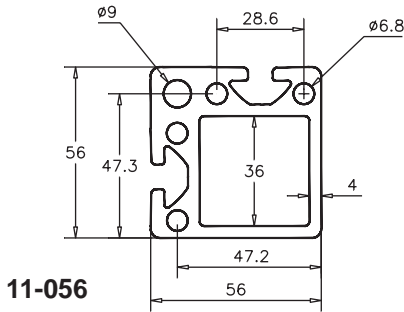
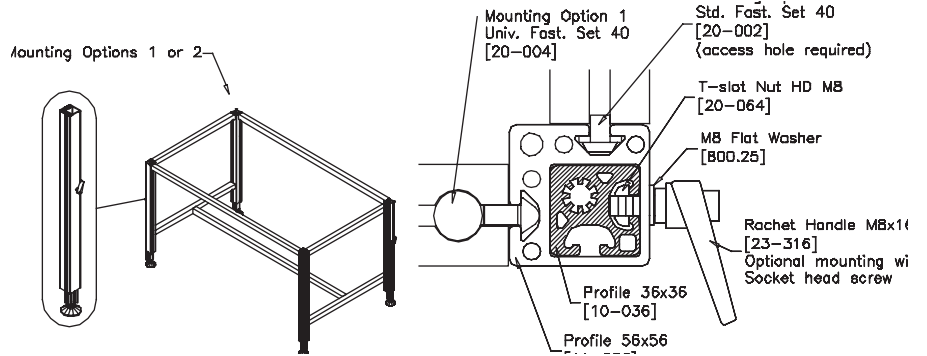
Part

Profile 160x80 Standard	cut off max. 6M	10-160
Profile 160x80 Heavy	cut off max. 6M pkg of 2 at 3M ea. pkg of 2 at 6M ea.	11-160 11-160-3 11-160-6
Profile 80x80 Extra Heavy	cut off max. 6M	11-089
Saw cut necessary for cut to length		19-003
End Cap 160x80	1 pc	18-818

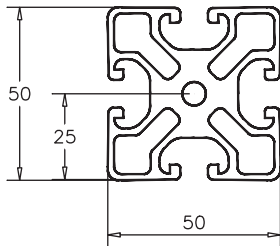
Post Profiles



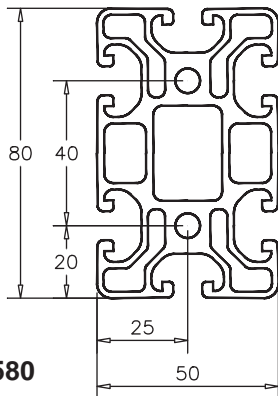
10-036



11-056



10-550



10-580

Application

Profile 36x36 fits in cavity of 56x56 profile to create telescoping post for work stations and tables.
56x56 profile suitable as corner post for tables, frames and machine guarding. Hollow square interior accommodates door and access panel counterweights.
50x50 and 50x80 profiles suitable as leg support for 50x95 Conveyor Profile. Use Standard Fastener 50 (20-051) and Flat Plate Fastener (20-028).

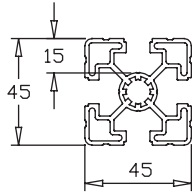
Technical Data

Al, clear anodized

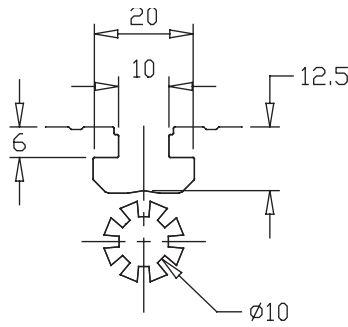
Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
10-036	8.55	8.55	4.32	4.32	7.18	1.94
11-056	45.62	45.62	14.81	14.81	13.07	3.53
10-550	19.70	19.70	7.88	7.88	9.81	2.71
10-580	78.75	30.50	19.69	12.20	13.58	3.75

Description	Unit	Part #
Profile 36x36 Post	cut off max. 3M10-036	
Profile 56x56 Post	cut off max. 6M11-056	
	pkg of 4 at 3M ea.	11-056-3
	pkg of 4 at 6M ea.	11-056-6
Profile 50x50	cut off max. 6M10-550	
	pkg of 9 at 3M ea.	10-550-3
	pkg of 9 at 6M ea.	10-550-6
Profile 50x80	cut off max. 6M10-580	
	pkg of 6 at 3M ea.	10-580-3
	pkg of 6 at 6M ea.	10-580-6
Saw cut necessary for cut to length		19-001
Secure End Cap 56x56	1 pc	18-919
End Cap 50x50	1 pc	18-810

45 Series Profiles



14-040

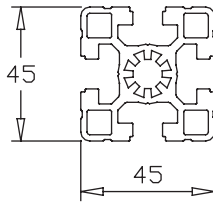


Application

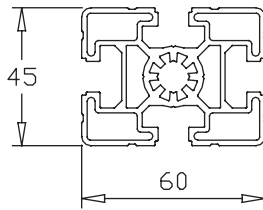
Profiles for general engineering structures. Widely used in automotive industry for constructing framework for assembly and conveyor lines. Compatible with all Bosch hardware.

Technical Data

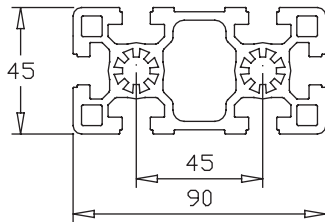
Al, clear anodized



14-045



14-046



14-090

Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
14-040	11.23	11.23	4.99	4.99	5.69	1.54
14-045	15.81	15.81	7.03	7.03	8.25	2.23
14-046	17.30	28.52	7.69	9.51	8.88	2.40
14-090	32.20	124.40	14.31	27.64	15.25	4.12

Description

Profile 45x45 Light

Unit

cut off max. 6M
pkg of 16 at 3M ea.
pkg of 16 at 6M ea.

Part

14-040
14-040-3
14-040-6

Profile 45x45

cut off max. 6M
pkg of 16 at 3M ea.
pkg of 16 at 6M ea.

14-045
14-045-3
14-045-6

Profile 45x60 Light

cut off max. 6M

14-046

Profile 45x90

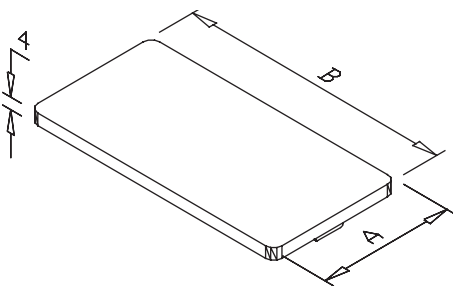
cut off max. 6M
pkg of 8 at 3M ea.
pkg of 8 at 6M ea.

14-090
14-090-3
14-090-6

Saw cut necessary for cut to length

19-001

End Cap 45



Application

For covering exposed end of 45 series profiles.

Technical Data

Glass-filled nylon, black

Description

End Cap 45x45
End Cap 45x90
End Cap 45x60

Unit

1 pc
1 pc
1 pc

Weight

9 g
18 g
11 g

Part

17-813
17-814
17-815

30, 28 and 20 Series Profiles

30, 28 and 20 series T-slots are smaller than 40 series T-slots requiring different hardware. All hardware designed for use with 30, 28 or 20 series profiles are designated with the appropriate series number at the end of the description.



Inventory Cart



Mobil Parts Bin Rack



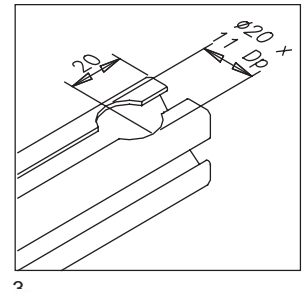
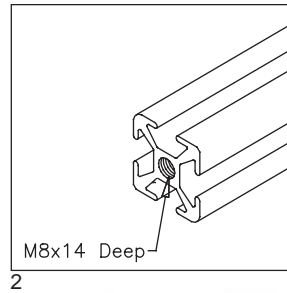
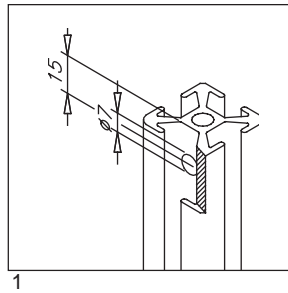
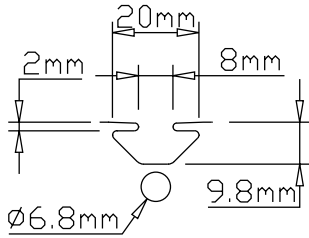
Safety Guards and Partitions



Printer Stand

1

30 Series Profiles



1-2 Servicing for Standard Fastener 28/30 (20-003)

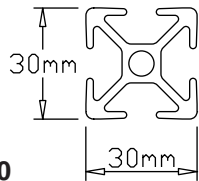
3 Servicing for Universal Fastener 30 (20-008) and for Butt-Fastener M6 (20-012)

4 Connecting three 30x30 Quarter Round profiles using Corner Connector 30 (22-150) and Radius Connector Cap 30 (22-151)

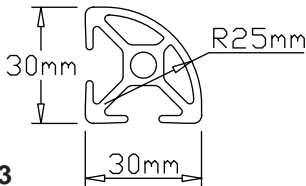
5 Corner connector 30 (see page 70)



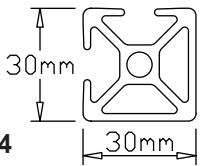
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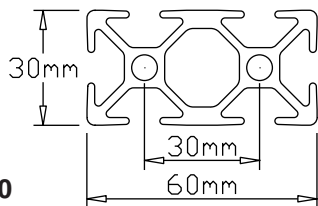
12-030



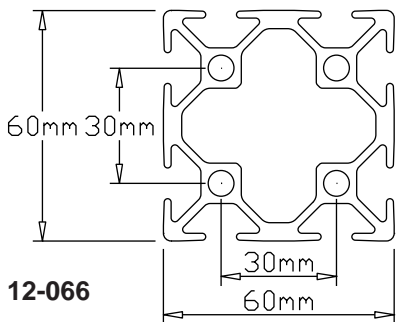
12-033



12-034



12-060



12-066

Application

For general structures, safety guard and partition frames, light duty enclosures and industrial peripherals.

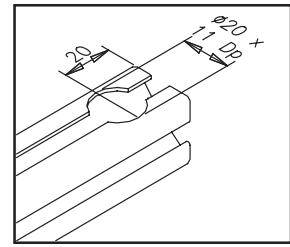
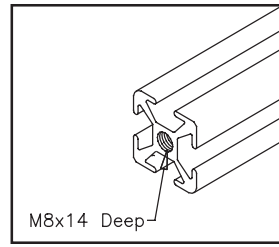
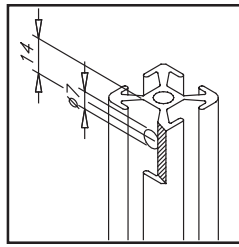
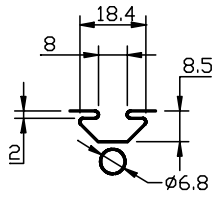
Technical Data

Al, clear or black anodized

Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
12-030	3.13	3.13	2.09	2.09	3.31	0.90
12-033	2.71	2.71	1.70	1.70	3.26	0.88
12-034	3.49	3.49	2.22	2.22	3.68	0.99
12-060	6.0	21.1	4.01	7.04	6.10	1.65
12-066	39.0	39.0	13.0	13.0	9.61	2.60

Description	Unit	Part #	
		Clear	Black
Profile 30x30	cut off max. 6M	12-030	
	pkg of 16 at 3M ea.	12-030-3	
	pkg of 16 at 6M ea.	12-030-6	
Profile 30x30 Quarter Round	cut off max. 6M	12-033	12-033B
Profile 30x30 Bi-Slot Corner	cut off max. 6M	12-034	
Profile 30x60	cut off max. 6M	12-060	
	pkg of 8 at 3M ea.	12-060-3	
	pkg of 8 at 6M ea.	12-060-6	
Profile 60x60	cut off max. 6M	12-066	
	pkg of 4 at 3M ea.	12-066-3	
	pkg of 4 at 6M ea.	12-066-6	
Saw cut necessary for cut to length		19-001	
End Cap 30x30	1 pc	18-803	
End Cap 30x60	1 pc	18-863	
End Cap 60x60	1 pc	18-866	

28 Series Profiles



1-2 Servicing for Standard Fastener 28 (20-003)

Application

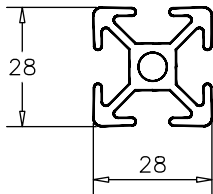
Safety guard and partition frames, light duty enclosures and industrial peripherals such as parts racks, etc. Also suitable for interior design and other commercial applications.

Technical Data

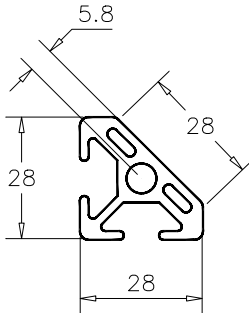
Al, clear or black anodized

Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
12-028	2.41	2.41	1.72	1.72	3.01	0.81
12-044	2.00	2.00	1.30	1.30	2.89	0.78
12-128	2.69	2.41	1.82	1.72	3.18	0.86
12-228	2.71	2.71	1.84	1.84	3.37	0.91
12-328	3.02	2.43	2.16	1.73	3.37	0.91

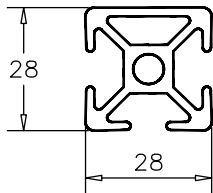
12-028



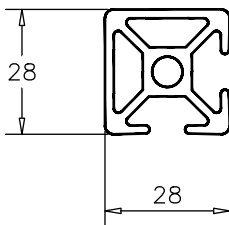
12-044



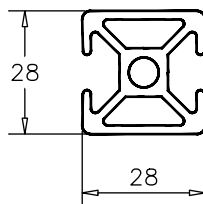
12-128



12-228



12-328



Description

Unit

Part

Clear

Black

Profile 28x28 Quad-Slot

cut off max. 6M

12-028

12-028B

pkg of 25 at 3M ea.

12-028-3

12-028B3

pkg of 25 at 6M ea.

12-028-6

12-028B6

Profile 28x28-45°

cut off max 6M

12-044

12-044B

pkg of 25 at 3M ea.

12-044-3

12-044B3

pkg of 25 at 6M ea.

12-044-6

12-044B6

Profile 28x28 Tri-Slot

cut off max. 6M

12-128

12-128B

pkg of 25 at 3M ea.

12-128-3

12-128B3

pkg of 25 at 6M ea.

12-128-6

12-128B6

Profile 28x28 Bi-Slot Corner

cut off max. 6M

12-228

12-228B

pkg of 25 at 3M ea.

12-228-3

12-228B3

pkg of 25 at 6M ea.

12-228-6

12-228B6

Profile 28x28 Bi-Slot Midframe

cut off max. 6M

12-328

12-328B

pkg of 25 at 3M ea.

12-328-3

12-328B3

pkg of 25 at 6M ea.

12-328-6

12-328B6

Saw cut necessary for cut to length

19-001

End Cap 28x28

1 pc

18-808

End Cap 28x28-45°

1 pc

18-844

28 Series

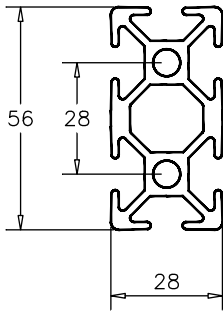
Application

Safety guard and partition frames, light duty enclosures and industrial peripherals such as parts racks, etc. Also suitable for interior design and other commercial applications.

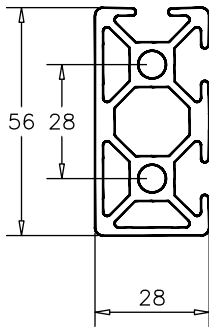
Technical Data

Al, clear or black anodized

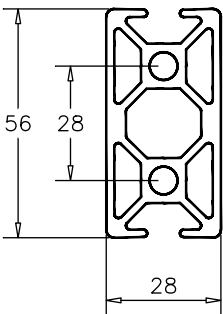
Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
12-428	16.56	4.67	5.91	3.33	5.66	1.53
12-528	18.61	5.28	6.46	3.57	6.21	1.68
12-628	18.05	5.92	6.44	4.23	6.39	1.73
12-728	17.30	5.26	6.18	3.55	6.03	1.63



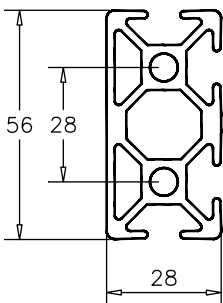
12-428



12-528



12-628



12-728

Description

Unit

Part

Clear Black

Profile 28x56 Open-Slot

cut off max. 6M
pkg of 8 at 3M ea.
pkg of 8 at 6M ea.

12-428 12-428B
12-428-3 12-428B3
12-428-6 12-428B6

Profile 28x56 Tri-Slot

cut off max. 6M
pkg of 8 at 3M ea.
pkg of 8 at 6M ea.

12-528 12-528B
12-528-3 12-528B3
12-528-6 12-528B6

Profile 28x56 Bi-Slot

cut off max. 6M
pkg of 8 at 3M ea.
pkg of 8 at 6M ea.

12-628 12-628B
12-628-3 12-628B3
12-628-6 12-628B6

Profile 28x56 Quad-Slot

cut off max. 6M
pkg of 8 at 3M ea.
pkg of 8 at 6M ea.

12-728 12-728B
12-728-3 12-728B3
12-728-6 12-728B6

Saw cut necessary for cut to length

19-001

End Cap 28x56

1 pc

18-809

28 Series

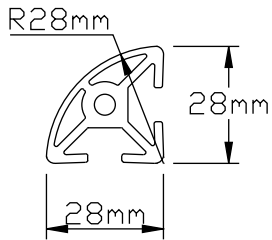
Application

Safety guard and partition frames, light duty enclosures and industrial peripherals such as tool hangers, etc. Also suitable for interior design and other commercial applications.

Technical Data

Al, clear

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
12-043	2.71	2.71	1.84	1.84	3.49	0.95
10-056	29.55	29.55	14.78	14.78	8.51	2.31



12-043

Description

Profile 28x28 Qtr Round

Unit

cut off max. 6M

Part

Clear
12-043

Profile 28x28 Tool Hanger
Light

cut off max. 6M

12-828

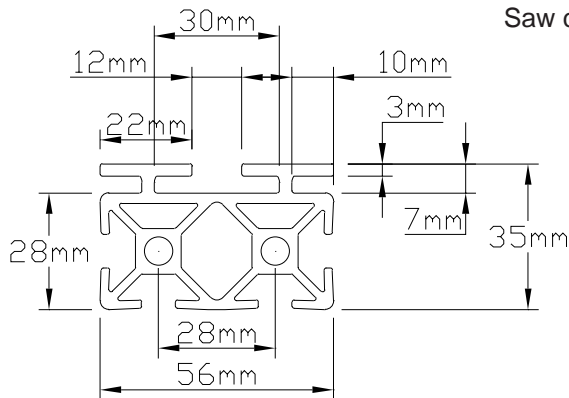
Profile 56x56 Light

cut off max. 6M

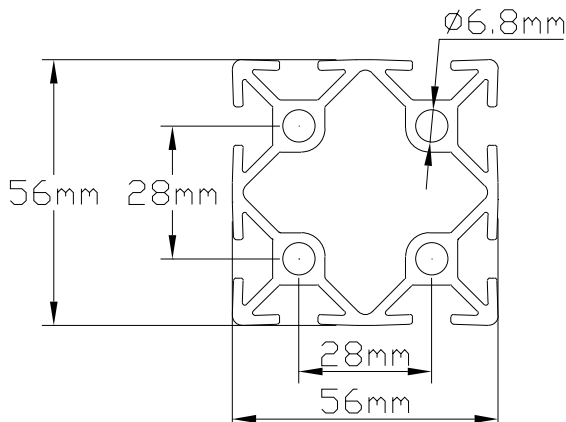
10-056

Saw cut necessary for cut to length

19-001



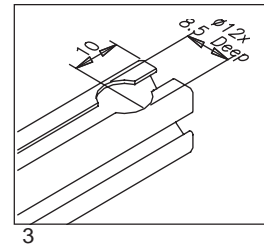
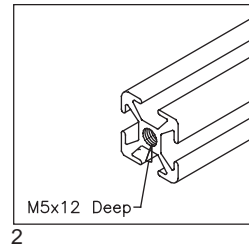
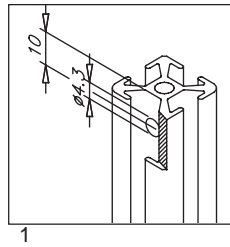
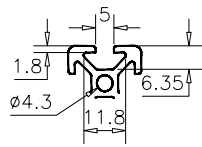
12-828



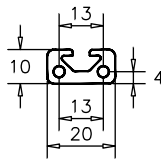
10-056



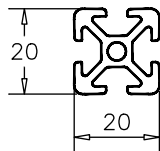
20 Series Profiles



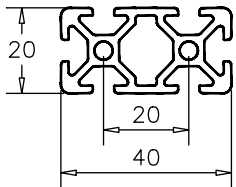
12-120



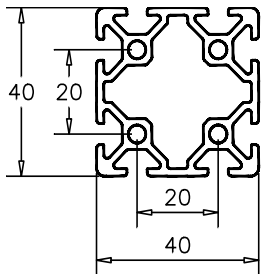
12-020



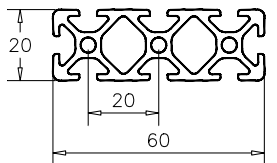
12-124



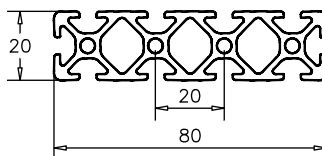
12-040



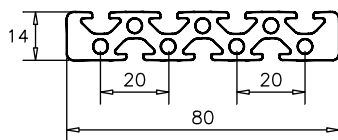
12-126



12-125



12-081



Application

20 series profiles can be used for light duty enclosures and miniature modeling. Also useful as an accessory extrusion where small profiles are needed. 5mm T-slot requires 20 series hardware.

- 1-2 Servicing for Std. Fastener 20 (20-021)
- 3 Servicing for Univ. Fastener 20 (20-040)



Technical Data

Al, clear anodized

Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
12-120	0.12	0.53	0.24	0.53	1.29	0.35
12-020	0.72	0.72	0.72	0.72	1.85	0.52
12-124	1.27	5.01	1.27	2.50	3.18	0.86
12-040	8.55	8.55	4.27	4.27	4.90	1.32
12-126	2.04	16.02	2.04	5.34	4.73	1.28
12-125	2.70	36.40	2.70	9.10	6.19	1.67
12-081	1.14	41.01	1.57	10.25	6.65	1.80

Description

Profile 20x10

Unit

cut off max. 3M
pkg of 32 at 3M ea.

Part

12-120
12-120-3

Profile 20x20

cut off max. 3M
pkg of 32 at 3M ea.

12-020
12-020-3

Profile 20x40

cut off max. 3M
pkg of 16 at 3M ea.

12-124
12-124-3

Profile 40x40, 20 Series

cut off max. 3M
pkg of 8 at 3M ea.

12-040
12-040-3

Profile 20x60

cut off max. 3M

12-126

Profile 20x80

cut off max. 3M

12-125

Profile 80x14

cut off max. 3M

12-081

Saw cut necessary for cut to length

19-001

End Cap 20x10

1 pc

18-830

End Cap 20x20

1 pc

18-802

End Cap 20x40

1 pc

18-831

End Cap 40x40, 20 Series

1 pc

18-832

End Cap 20x60

1 pc

18-834

End Cap 20x80

1 pc

18-835

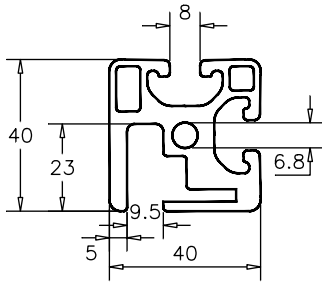
End Cap 80x14

1 pc

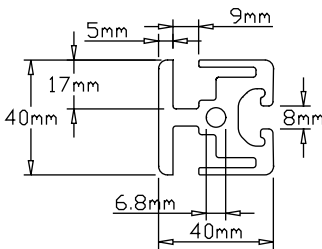
18-833

Guarding and Enclosure Application Profiles

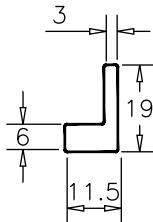
40x40 Clamp Profile



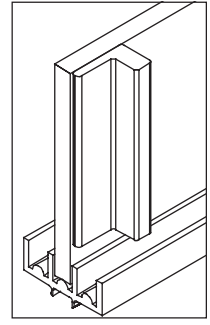
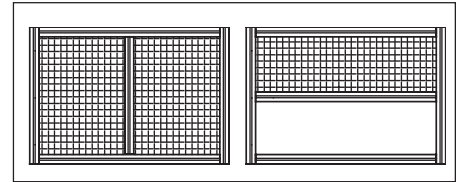
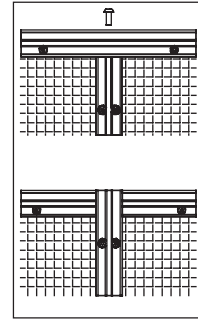
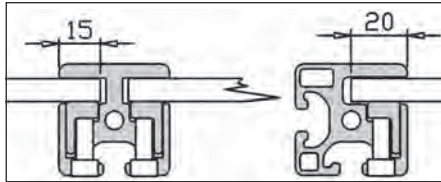
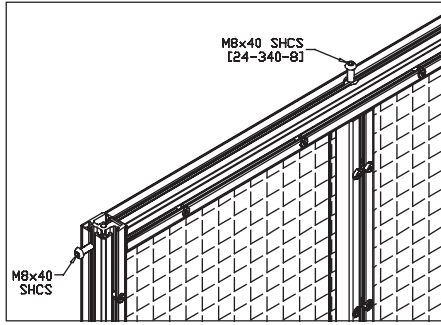
10-041



10-042



10-011



- 1 Proper assembly of bi-clamp profile
- 2 Recommended penetration of the panels into the clamp profiles
- 3-4 Application examples
- 5 Edging profile used as door handle on sliding door

Application

40x 40 clamp profiles suitable for construction of guards, enclosures, swinging and sliding doors. Accommodates corrugated mesh, sheet metal and plastic panels up to 9.5 mm thick. Clamped panel adds rigidity to the frame. Bi-clamp profile designed for use as inner post in subdivided panels of large guarding, sliding and swinging doors. Clamp profiles are serviced for screws on 200 ±2 mm centers. Shipped complete with clamping strip (10-011) and M6x16 SHCS. In addition to being a part of 40x40 clamp profiles, edging profile can also be used as a handle or stiffener for panels.

Technical Data

Al, clear anodized

Part #	I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]	Section [cm ²]	Weight [kg/m]
10-041	11.40	11.40	5.55	5.55	7.40	2.30
10-042	13.00	11.40	6.20	5.70	8.38	2.26
10-011						0.30

Description

Profile 40x40 Clamp

Unit

cut off max. 6M
pkg of 16 at 3M ea.
pkg of 16 at 6M ea.

Part

10-041
10-041-3
10-041-6

Profile 40x40 Bi-Clamp

cut off max. 6M

10-042

Edging Profile

cut off max. 6M
pkg of 10 at 3M ea.
pkg of 10 at 6M ea.

10-011
10-011-3
10-011-6

Saw cut necessary for cut to length

19-001

End Cap 40x40

1 pc

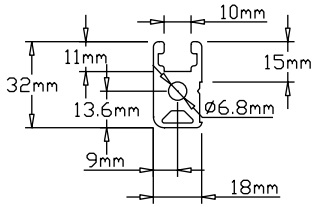
18-813

Secure End Cap 40x40

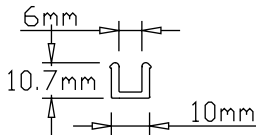
1 pc

18-913

32x18 Picture Frame Profile



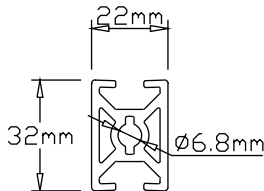
12-031



12-108



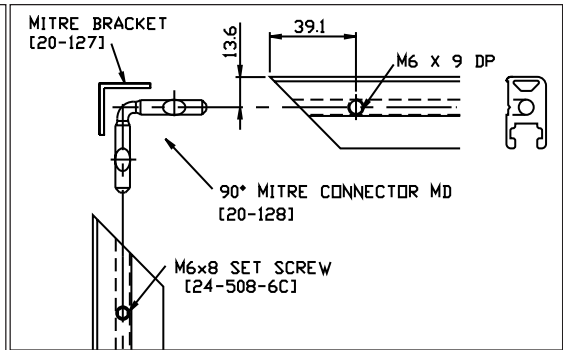
20-128Z1



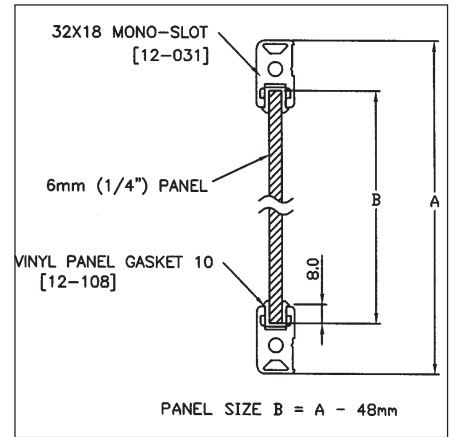
12-023



1



2



3

- 1 Profile 32x18 Mono-slot mitre cut at 45° used on a framed door
- 2 Assembly of 90° Mitre Connector MD (order Mitre Bracket and set screw separately)
- 3 Panel dimensions

Application

Picture frame guarding and enclosures. Accepts panel 10mm (3/8") thick without using gasket, 6mm (1/4") thick with Panel Gasket 10 (12-108). Recess for magnetic or foam tape to provide tight seal for noise or dust protection. Easy assembly with 90° Mitre Connector MD (20-128Z1).

Technical Data

Al, clear anodized
Weight 0.94 kg/m

Loctite® Thread Locker No. 262 recommended to secure setscrews.

End cap 18-807 can not be used with this profile.

Description

Profile 32x18 Mono-Slot
Profile 22x32 Light
Profile 32X22 Slot

Unit

cut off max. 6m
cut off max. 6m

Part

12-031
12-032
12-023

Saw cut necessary for cut to length

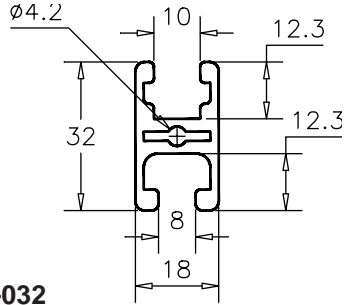
19-001

Panel Gasket 10
90° Mitre Connector MD
Mitre Bracket

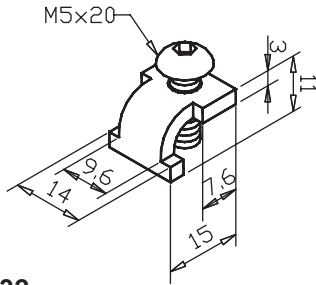
cut off max. 125m
1 pc
1 pc

12-108
20-128Z1
20-127

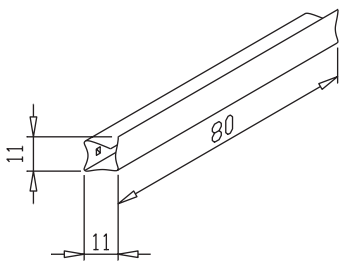
Profile 32x18 Bi-Slot



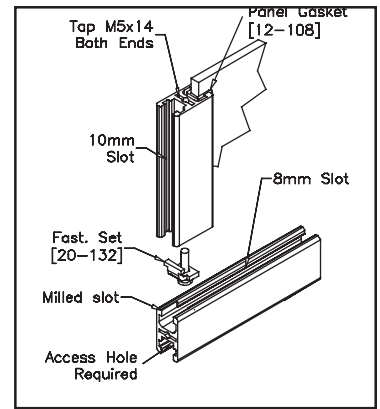
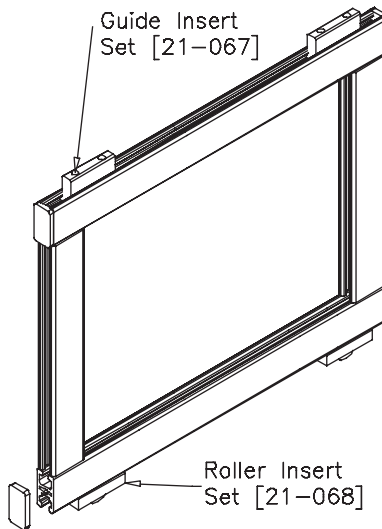
12-032



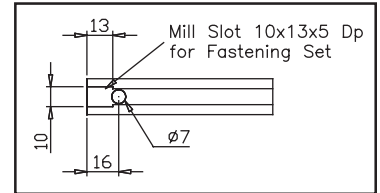
20-132



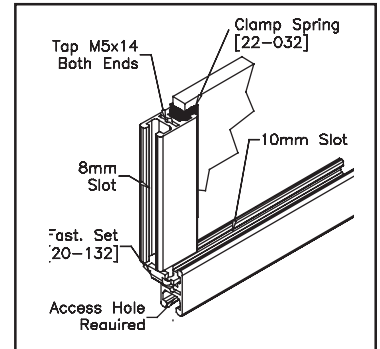
22-032



2



3



4

- 1 Assembly of panel frame using Profiles 32x18 Bi-slot for use on Rolling Door Guide Profile (12-022)
- 2 Frame for panels 8mm thick without gasket or 6mm thick with Panel Gasket 8 (12-106)
- 3 Milling of 8mm slot is required for Fastener (20-132) when using 8mm slot for panels.
- 4 Frame for holding panels with Clamp Spring (22-032) or Panel Gasket 10 (12-108).

Application

Suitable for guarding, sliding doors and enclosures. Panel up to 9mm thick may be clamped using clamp spring. Number of clamps depends on panel size and load. Panel gaskets 12-106 and 12-108 can be used to secure 6mm (1/4") panel in T-slots.

Technical Data

Al, clear anodized
Weight 0.67 kg/m

Fastening Set: St, galvanized
Weight 9g

Clamp Spring: St
Weight 4g

Description

Profile 32x18 Bi-Slot

Unit

cut off max. 6M
pkg of 10 at 3M ea.
pkg of 10 at 6M ea.

Part #

12-032
12-032-3
12-032-6

Saw cut necessary for cut to length

19-001

End Cap 32x18

1 pc

18-807

Fastening Set for 32x18 Bi-Slot Pfl

1 set

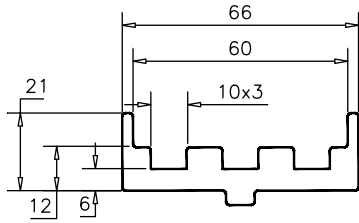
20-132

Clamp Spring

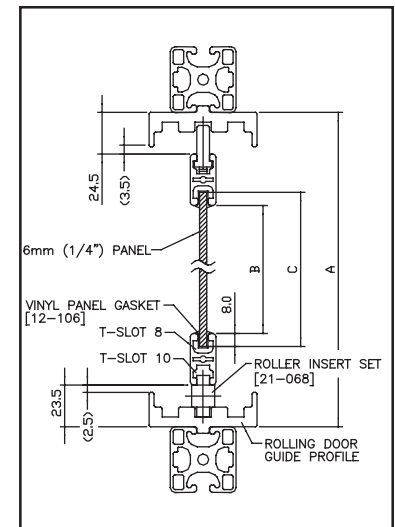
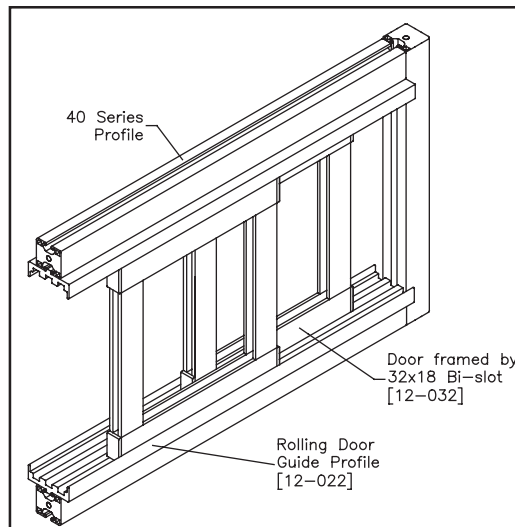
1 pc

22-032

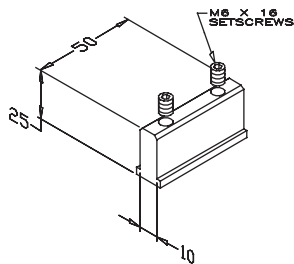
Rolling Door Guide



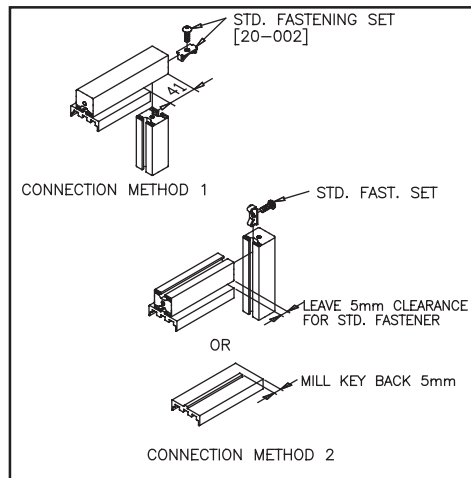
12-022



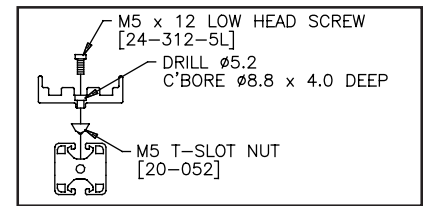
1



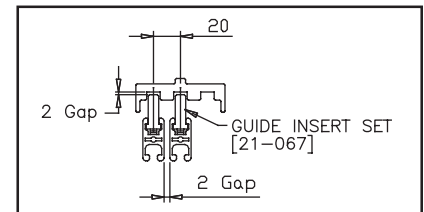
21-067



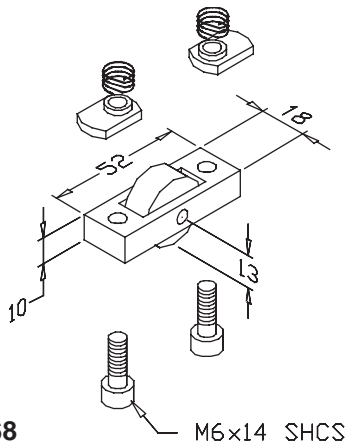
2



3



4



21-068

- 1 Length of vertical door frame member: $B = A - 112 \text{ mm}$.
For 6mm panel with panel gasket 8 (12-106): C (panel height) = $B + 16 \text{ mm}$.
For 8mm panel without gasket: C (panel height) = $B + 23 \text{ mm}$
- 2-3 Connection methods for assembling the Door Guide to 40 series profiles
- 4 Attaching the 32x18 framed door to the Door Guide Profile. Mitre connection of 32x18 Bi-Slot profile (12-032) for door frame is *NOT* recommended. See page 23 for detail of door frame.

Application

Excellent solution for large doors with removable door panels for maintenance. Example: case packers, material handling and packaging installations, enclosures for large machinery.

Technical Data

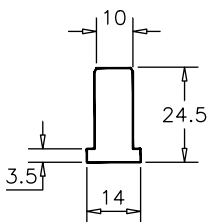
Profile: Al, clear anodized. Weight 1.78 kg/m

Guide Insert:

UHMW, white
with M6x16 Flat point set screw
Weight 45 g

Roller Insert:

Roller: Delrin, black
Housing: Al, anodized
Pin: Stainless Steel

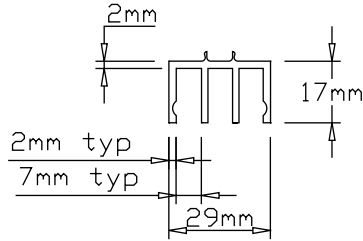


12-421

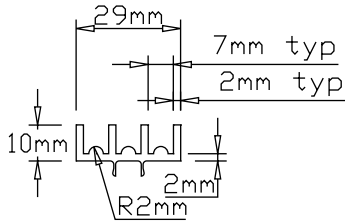
Description	Unit	Part #
Rolling Door Guide Profile	cut off max. 4M	12-022
Saw cut necessary for cut to length		19-001
Guide Insert Set	1 set	21-067
Roller Insert Set	1 set	21-068
UHMW Guide Profile	cut off max 3.1M	12-421

Sliding Door Guide

40 Series

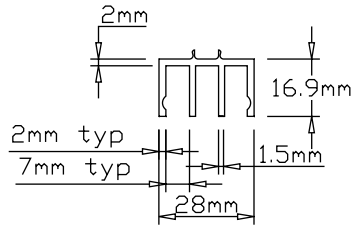


12-012

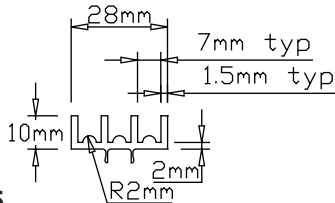


12-013

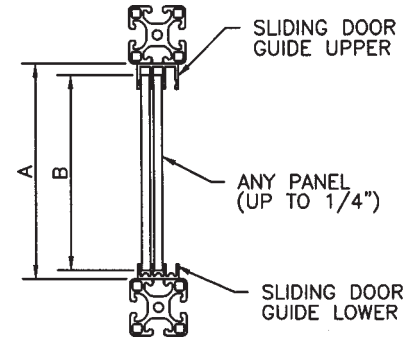
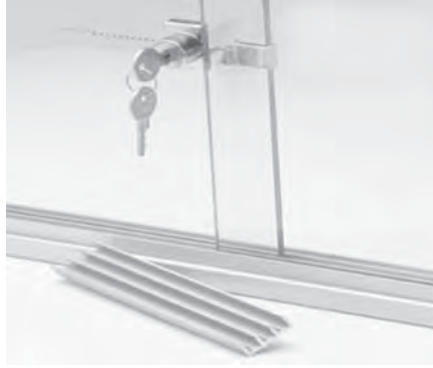
28/30 Series



12-014



12-015



B = A - 15mm for removable doors
B = A - 10mm for non-removable doors

Application

To guide light duty panels as sliding windows and access ports for safety guards and enclosures. Installation onto 40, 30 or 28 Series profiles is accomplished without fasteners by snapping into T-slot. Design of lower guide reduces friction of sliding panels. Design of upper guide facilitates easy, lift-out removal of door without disassembly of structure.

Description

Sliding Door Guide 40, Upper

Sliding Door Guide 40, Lower

Sliding Door Guide 30/28, Upper

Sliding Door Guide 30/28, Lower

Saw cut necessary for cut to length

Technical Data

Al, clear anodized
Three tracks for panels up to 6.4mm (1/4") thick

Weight:

12-012, 12-014	0.45 kg/m
12-013, 12-015	0.50 kg/m

Unit

cut off max. 3M
pkg of 10 at 3M ea.

cut off max. 3M
pkg of 10 at 3M ea.

cut off max. 3M
pkg of 10 at 3M ea.

cut off max. 3M
pkg of 10 at 3M ea.

Part

12-012
12-012-3

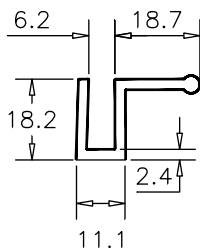
12-013
12-013-3

12-014
12-014-3

12-015
12-015-3

19-001

Stiffener/Handle Profile



Application

Designed as a combination handle and stiffener for sliding panel doors 1/4" thick. Panels snap into the profile slot and may be additionally secured by an adhesive or fastener.

Description

Stiffener/Handle Profile

Saw cut necessary for cut to length

Technical Data

Al, clear anodized
Weight 0.93 kg/m

Unit

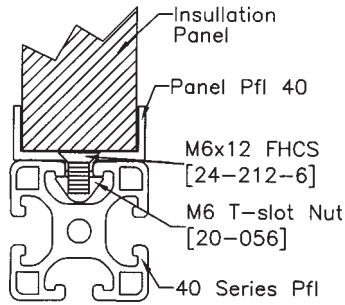
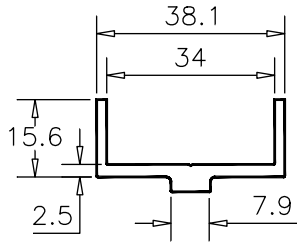
cut off max. 3M
pkg of 10 at 3M ea.

Part

12-011
12-011-3

19-001

Panel Extrusion 40



Application

Extrusion for mounting 34mm (1.34") thick insulation panels onto 40 series profiles. Extrusion can be serviced to mount on profile using T-slot nuts. Can also be mounted with double sided tape.

Technical Data

Al, clear anodized
Weight 0.48 kg/m

Description

Panel Extrusion 40
Saw cut necessary for cut to length

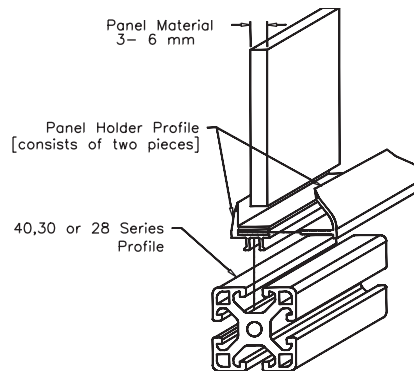
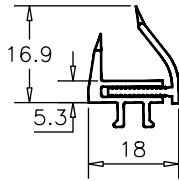
Unit

cut off max. 6M

Part

12-018
19-001

Panel Holder



Application

Profile designed for panels 3-6mm thick. Built-in seal for splash guard applications. Can be used for 40, 30 and 28 series profiles.

Technical Data

Rigid PVC base, with vinyl lip seal
Weight 0.16 kg/m

Description

Panel Holder Profile
Saw cut necessary for cut to length

Unit

cut off max. 3M
cut off max. 3M

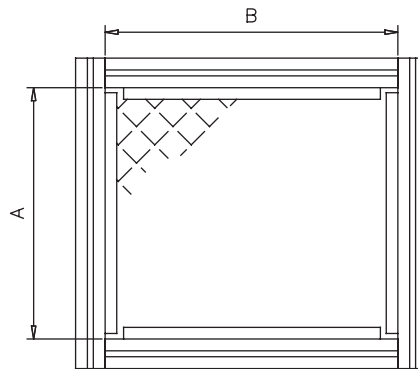
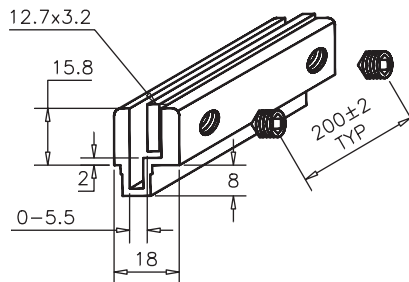
Color

black
gray

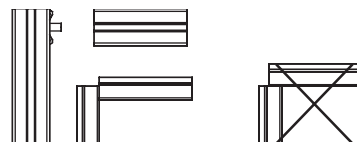
Part

12-016B
12-016G
19-001

Mesh Clamp



Wire Mesh Size: A x B less 6 to 10 mm



Position for clearance of Std. Fastener

Application

Captures wire mesh panel up to 5.5mm thick. Excellent for constructing safety guards when mesh needs not be removable. Installation onto 40, 30 or 28 series profiles is accomplished without fasteners by pressing into T-slot. Support stanchion becomes integral part of panel frame.

Technical Data

Al, clear anodized
Profile is tapped M6 every 200mm ± 2mm. Includes clamp strip and M6x6 flat point set screws.
Weight 0.53 kg/m

Description

Mesh Clamp Profile
Saw cut necessary for cut to length

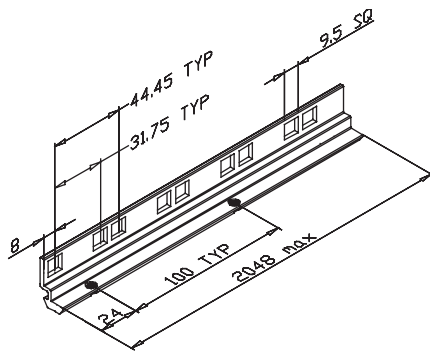
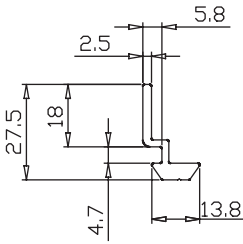
Unit

cut off max. 4M
pkg of 10 at 4M ea.

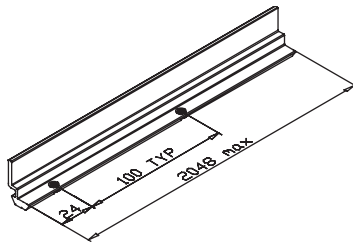
Part

12-010
12-010-4
19-001

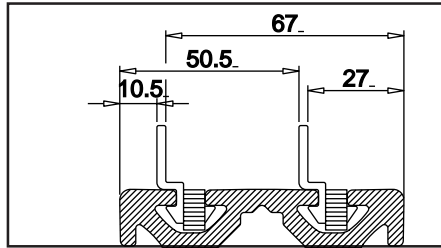
Rack Angle



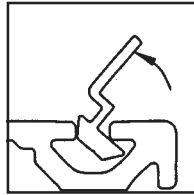
12-109M



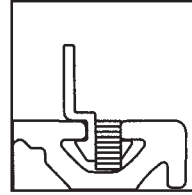
12-110M



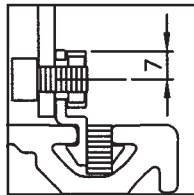
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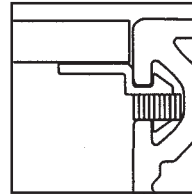
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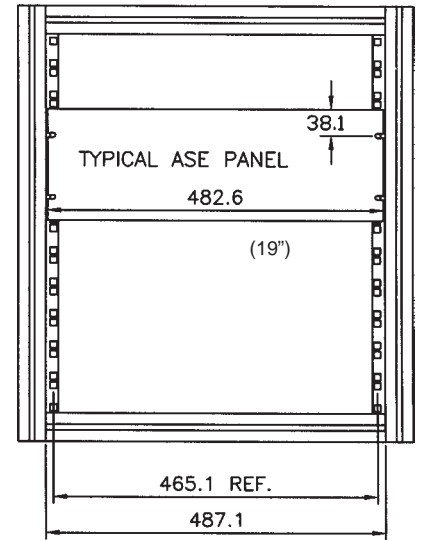
3



4



5



- 1 Mounting dimensions
- 2 Inserting rack angle into 40 series T-slot
- 3 Rack Angle is secured in T-slot with set screw M6x12
- 4 Panel is attached to Rack Angle with M5 or M6 screw and clip nut
- 5 Non-removable panels can be attached to the blank Rack Angle with double-sided tape

Application

Used for attaching standard 19" rack or other panel to 40 series profile (30 and 28 series profiles permitted, rack angle must be inserted from profile end). Clip nuts for panel mount snap into square holes. Blank Rack Angle can be machined to mount any accessories (see 1/4 Turn Receptacle).

Technical Data

Al, clear anodized
Complete with M6x12 flat point set screws.

Weight:

12-109M 0.62 kg/m
12-110M 0.63 kg/m

Description

19" Rack Angle
Rack Angle, Blank
Saw cut necessary for cut to length

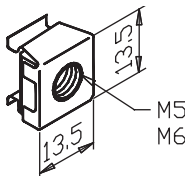
Unit

cut off max. 2.048M
cut off max. 2.048M

Part

12-109M
12-110M
19-001

Clip Nut



Application

Square nut with clip attachment for 19" Rack Angle. Nut snaps into square holes for attaching panels and accessories.

Technical Data

St, zinc plated
Weight 5g

* Due to almost identical geometric and dimensional shape of M5 and #10-32 UNF threads, standard #10-32 screws will fit in M5 Clip Nut.

Description

Clip Nut M5*
Clip Nut M6

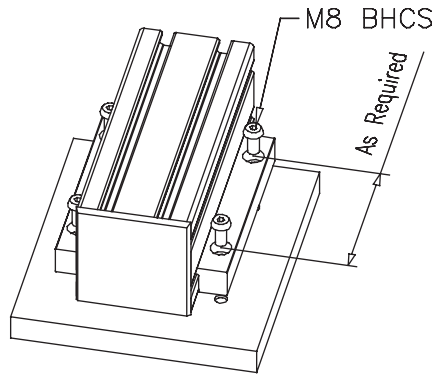
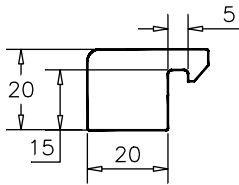
Unit

1 pc
1 pc

Part

20-075
20-076

Clamp Bar



Application

For attachment of 40 series profiles to base plates and other parts. Must be used in pairs to accomplish proper clamping of the profile. Not recommended for use on linear applications.

Technical Data

Al, clear anodized
Weight 1.24 kg/m

Description

Clamp Bar Profile
Saw cut necessary for cut to length

Unit

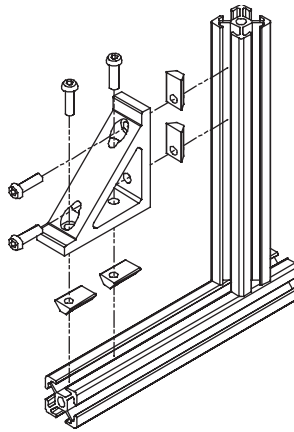
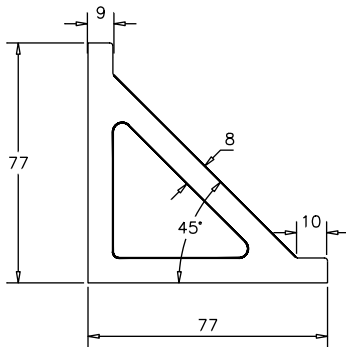
cut off max. 2M

Part

12-105

19-001

Gusset Profile



Application

Can be cut and machined for custom gussets and support structures. Anodizing on request. For standard gusset brackets see page 74.

Technical Data

Al, mill finish
Weight 4.84 kg/m

Description

Gusset Profile
Saw cut necessary for cut to length

Unit

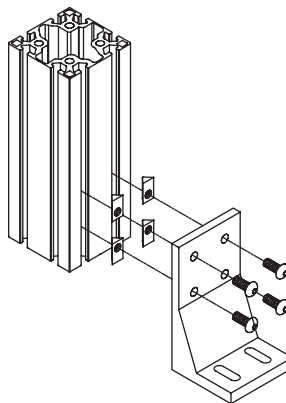
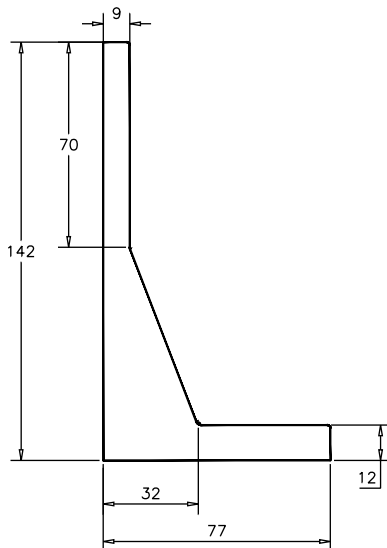
cut off max.3M

Part

20-102Z4

19-002

L-Bracket Profile



Application

Can be cut and machined for custom floor mounting or other types of brackets. Anodizing on request. For standard floor mounting brackets see page 82.

Technical Data

Al, mill finish
Weight 7.52 kg/m

Description

L-Bracket Profile
Saw cut necessary for cut to length

Unit

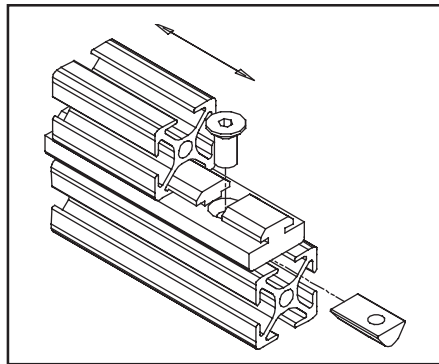
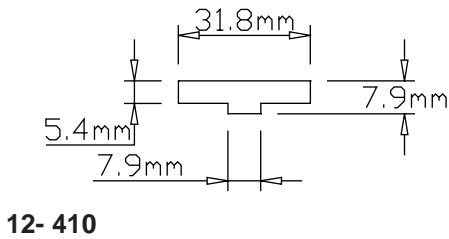
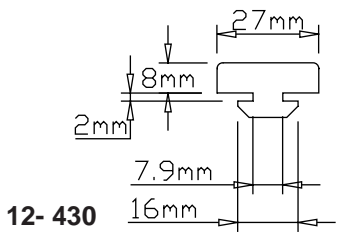
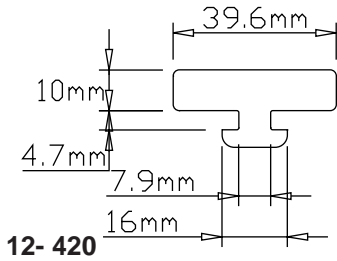
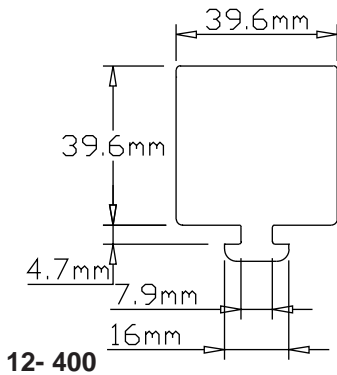
cut off max. 3M

Part

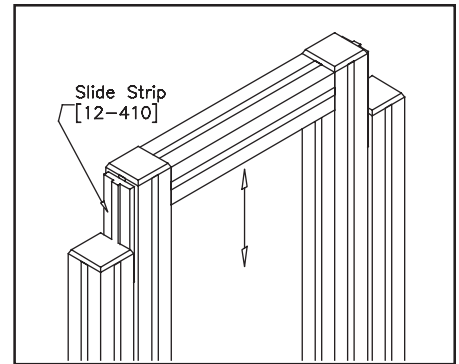
21-057Z4

19-002

UHMW Slide Bar



UHMW slide bar 28/30 between two profiles



UHMW slide strip on a parallel application

Application

Durable, low-friction material, self-lubricating and easily machined. Provides a smooth gliding surface on a wide range of applications, from linear systems to adjustable work surfaces.

Use Slides Bars 12-400 and 12-420 for 40 series profiles, 12-430 for 28 and 30 profiles. Slide Strip 12-410 can be used with all 40, 30 and 28 series profiles.

Technical Data

UHMW, white
UHMW, black antistatic (12-420B)

Description	Unit	Part #
UHMW Slide Bar 40x40	cut off max. 3M	12-400
UHMW Slide Bar 40x10	cut off max. 3M	12-420
UHMW Slide Bar 40x10, Antistatic	cut off max. 3M	12-420B
UHMW Slide Bar 28/30x8	cut off max. 3M	12-430
UHMW Slide Strip	cut off max. 3M	12-410
Saw cut necessary for cut to length		19-001

