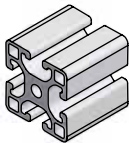
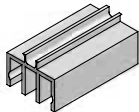
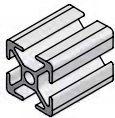
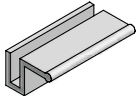
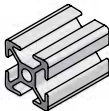
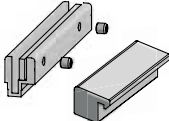
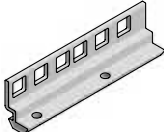
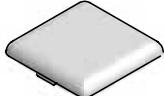
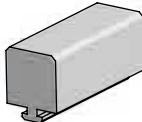
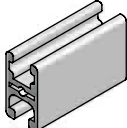
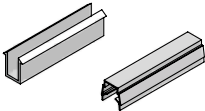
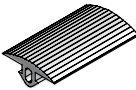
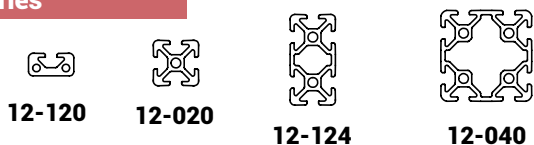


Contents

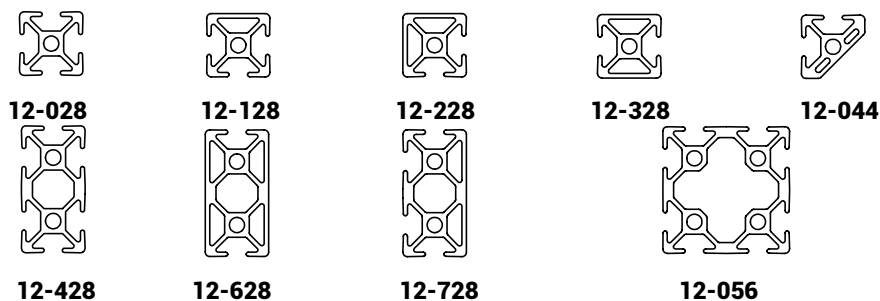
SECTION 1: Profiles & Accessories

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40 Series	26-39		Door Profiles Rolling Door Guide	62	
30 Series	40-43		Panel Profiles Stiffener/Handle Panel Mounting	63 63	
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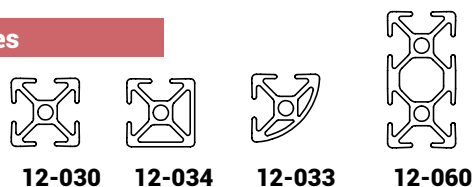
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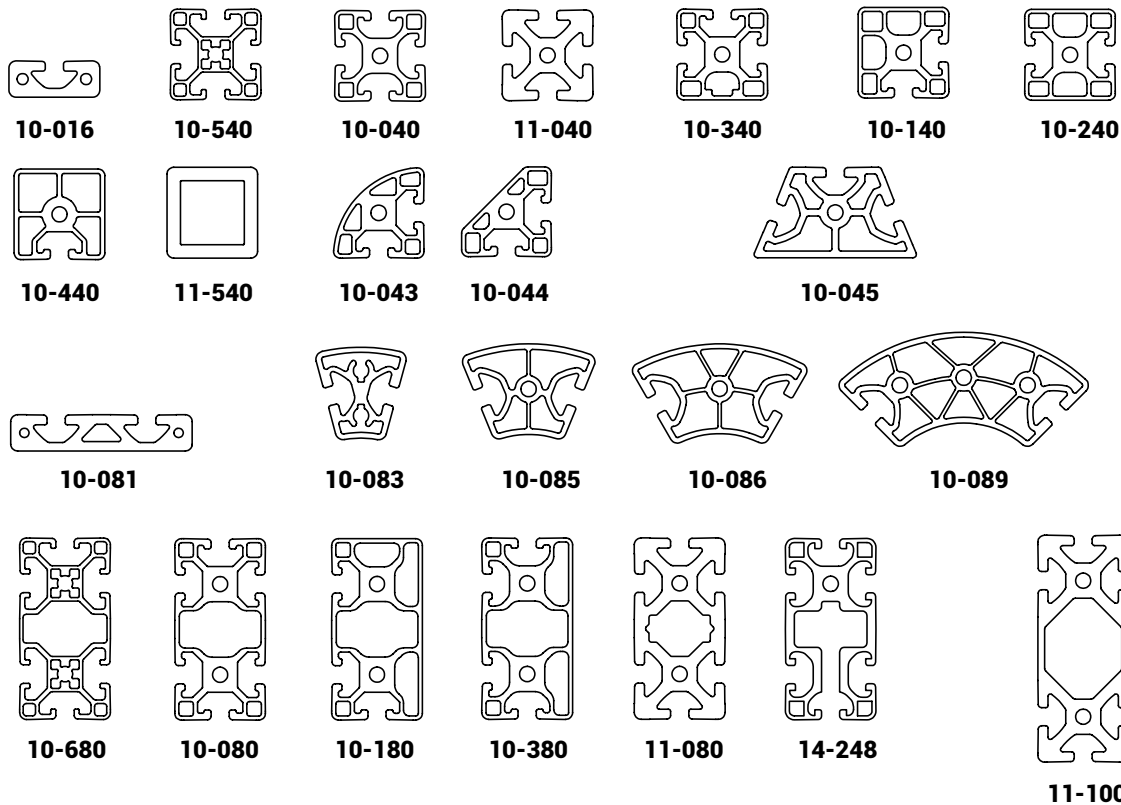
28 Series



30 Series

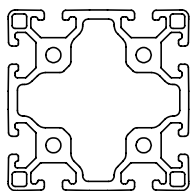


40 Series

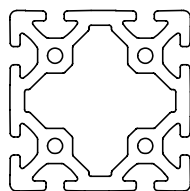


Overview

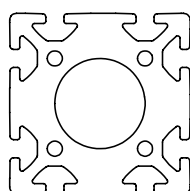
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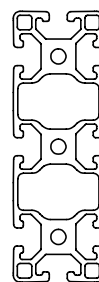
10-088



11-088



11-089



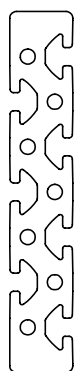
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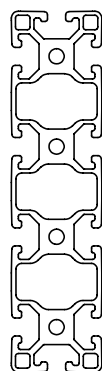
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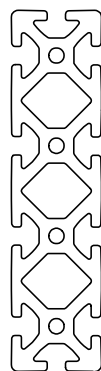
10-161



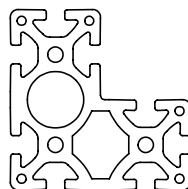
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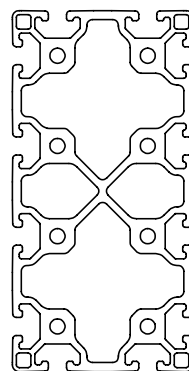
10-164



11-140



11-084



10-160

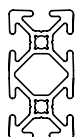


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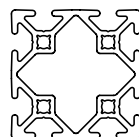
1" Series



12-1010

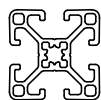


12-1020

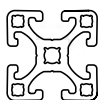


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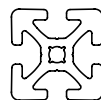
1.5" Series



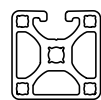
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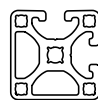
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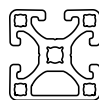
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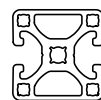
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10-1592



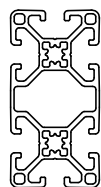
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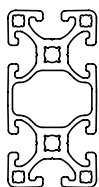
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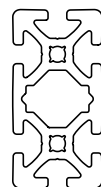
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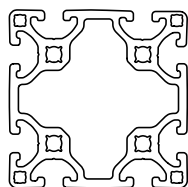
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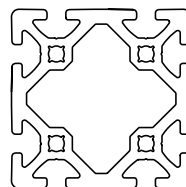
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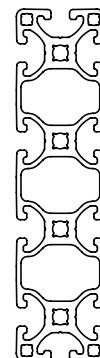
11-1530



10-3030



11-3030



10-1560

18x32 Frame Profile



12-032

Roller Systems



13-505



13-513

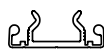


13-106

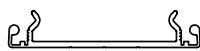


13-114

Conduit



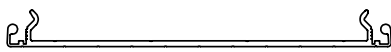
15-040



15-080



15-120



15-160



15-041



15-161



15-122



15-082



15-042

Door



12-012



12-014



12-011



12-013



12-015



12-022

T-Slot Covers



12-101†



12-102†



12-103†



12-106



12-107



12-108†



12-111†



12-115†



12-116†



12-117-x



12-113†



12-114

Slides



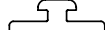
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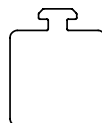
12-421



12-430



12-420



12-400

Panel



12-105



12-010*



12-109*
12-110*



12-016

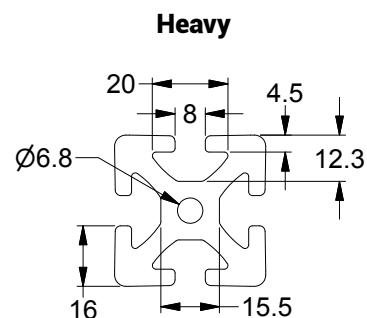
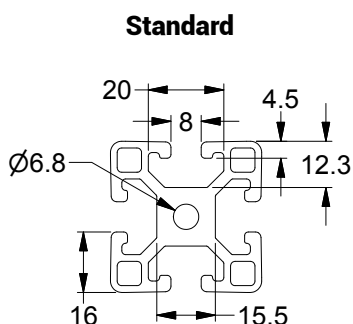
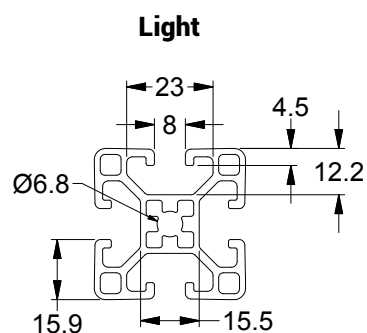
†Available in 2m bar only.

*Available in 3m bar only

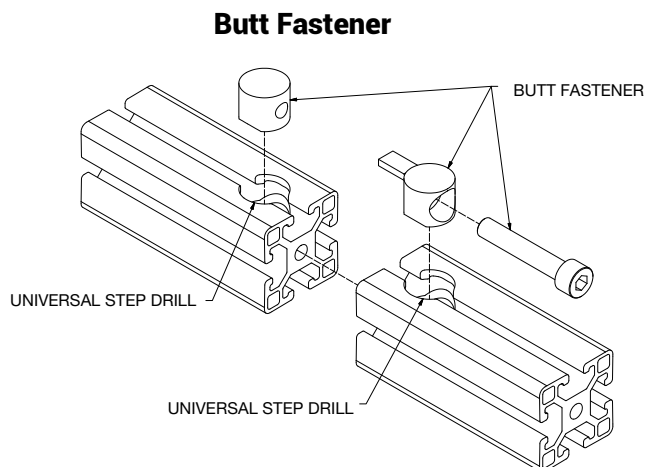
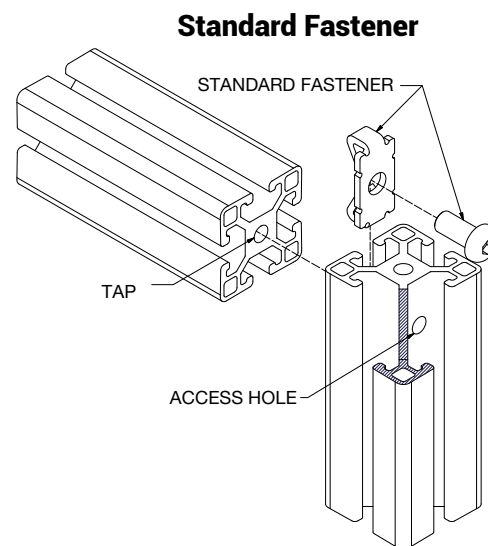
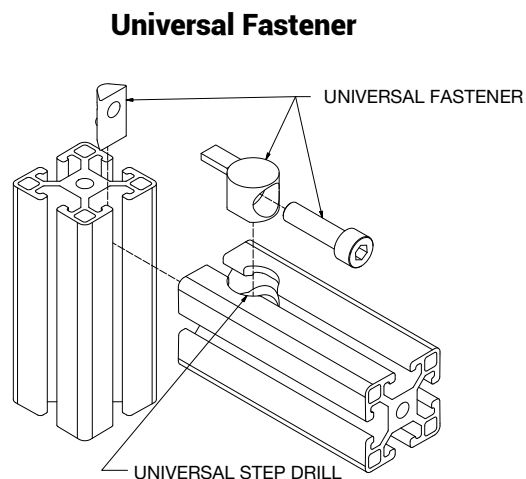
40 Series

Part #	Description	Moment of Inertia		Section Modulus		Section [cm ²]	Weight [kg/m]	Cat. Page
		I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]			
10-016	Profile 16x40	1.10	7.19	1.29	3.60	4.38	1.17	32
10-040	Profile 40x40 Standard	9.46	9.46	4.73	4.73	6.65	1.72	27
10-043	Profile 40x40 Quarter Round	6.95	6.95	3.15	3.15	5.87	1.59	29
10-044	Profile 40x40-45° Standard	6.79	6.79	3.03	3.03	5.72	1.53	30
10-045	Profile 40x45° Heavy	16.25	34.51	7.40	12.20	10.22	2.76	30
10-080	Profile 40x80 Standard	17.23	71.56	8.62	17.89	11.49	3.18	34
10-081	Profile 16x80	2.22	50.72	2.61	12.68	8.41	2.20	32
10-083	Profile R40x80 30° Standard	8.48	5.87	4.01	3.64	5.71	1.57	31
10-085	Profile R40x80 45° Standard	10.69	16.64	4.75	8.23	6.99	1.92	31
10-086	Profile R40x80 60° Standard	13.02	35.75	6.30	10.38	8.26	2.25	31
10-088	Profile 80x80 Standard	136.85	136.85	34.21	34.21	19.98	5.45	35
10-089	Profile R40x80 90° Standard	21.68	110.54	8.73	20.89	12.67	3.44	31
10-120	Profile 40x120 Standard	25.04	225.56	12.52	37.59	16.66	4.35	36
10-140	Profile 40x40 Bi-Slot Corner	9.29	9.29	4.64	4.64	6.67	1.81	28
10-160	Profile 80x160 Standard	268.68	738.22	67.17	92.28	37.76	10.29	37
10-161	Profile 16x160	3.73	289.10	4.13	36.14	12.98	3.45	32
10-164	Profile 40x160 Standard	32.84	510.39	16.42	63.80	21.23	5.80	36
10-180	Profile 40x80 Tri-Slot Corner	16.61	68.92	8.14	17.15	11.16	2.83	34
10-240	Profile 40x40 Bi-Slot Mid-Frame	9.57	9.13	4.79	4.57	6.73	1.82	28
10-340	Profile 40x40 Tri-Slot	9.94	9.33	4.01	4.66	6.83	1.82	28
10-380	Profile 40x80 Quad-Slot	16.77	69.20	8.21	17.30	11.28	3.06	34
10-440	Profile 40x40 Mono-Slot	8.47	8.71	4.08	4.35	5.81	1.56	28
10-540	Profile 40x40 Light	8.27	8.27	4.14	4.14	5.20	1.41	27
10-680	Profile 40x80 Light	15.30	56.78	7.65	14.70	9.10	2.46	34
11-040	Profile 40x40 Heavy	14.26	14.26	7.13	7.13	9.29	2.53	27
11-080	Profile 40x80 Heavy	26.97	102.65	13.48	25.66	16.74	4.58	34
11-084	Profile 40x80x80 Corner Heavy	127.47	128.57	27.62	27.66	23.23	6.27	38
11-088	Profile 80x80 Heavy	186.37	186.37	46.59	46.59	26.23	7.02	35
11-089	Profile 80x80 Extra Heavy	223.90	223.90	55.97	55.97	37.39	9.83	35
11-100	Profile 40x100 Heavy	31.22	193.34	15.61	38.67	18.02	4.94	33
11-122	Profile 80x120 Heavy	269.71	556.69	67.42	89.78	37.95	10.28	35
11-128	Profile 28x160	20.62	737.99	14.73	92.25	31.27	8.46	33
11-140	Profile 40x160 Heavy	53.10	738.07	26.55	92.26	32.17	8.72	36
11-160	Profile 80x160 Heavy	343.37	1106.92	85.84	138.37	48.23	13.07	37
11-540	Profile 40x40 Heavy Square	15.78	15.78	7.89	7.89	7.98	2.16	39

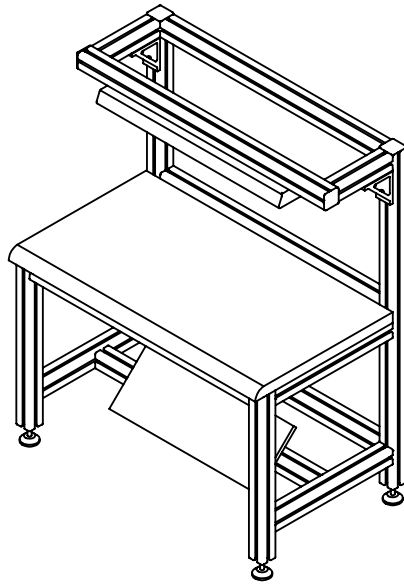
T-Slot Detail



Fastening Methods



40 Series



Example Workstation

Application

- T-slots located on all four faces
- This profile provides extensive mounting options for connections and accessories directly onto a structure
- An excellent choice for general purpose applications such as workstations, machine guarding and enclosures
- These profiles are weight optimized and available in light, standard and heavy ratings

Technical Data

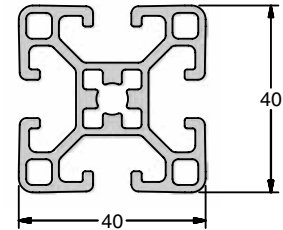
Aluminum, Clear or Black Anodized [See Technical Data page 17 for full material and finish specifications]

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	8.27	8.27	4.14	4.14	5.20	1.41
10-040	9.46	9.46	4.73	4.73	6.65	1.72
11-040	14.26	14.26	7.13	7.13	9.29	2.53

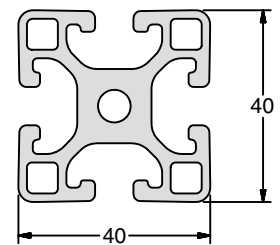
Ordering Information

Description	Max. Length	Part # (Clear)	Part # (Black)
Profile 40x40 Light	6 meters	10-540	10-540B
Profile 40x40 Standard	6 meters	10-040	10-040B
Profile 40x40 Heavy	6 meters	11-040	
Cut to Length Service Number		19-001	19-001

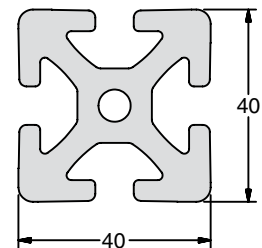
End Caps	Part #
40x40	18-813



10-540* ♣

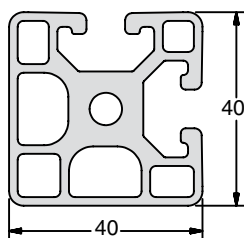


10-040 ♣

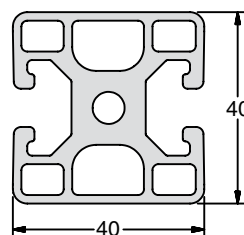


11-040 ♣

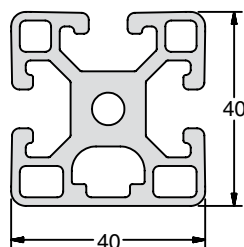
* End tap requires spiral tap



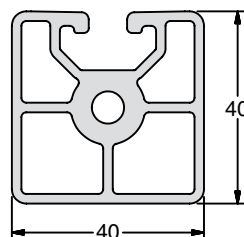
♣ 10-140



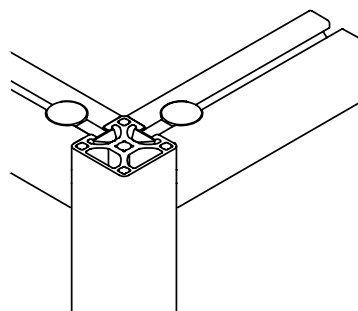
♣ 10-240



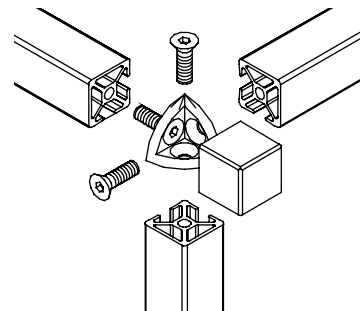
♣ 10-340



♣ 10-440



Universal Fastening Set 20-004
on 40 x 40 bi-slot corner profile.



Corner Bracket [22-146] and Square Connector
Cap [18-842] used with 40 x 40 bi-slot corner
profile.

Application

- Similar to 40X40 Standard profiles except closed faces are positioned in various arrangements
- Provides efficient fastening in a variety of configurations while retaining a smooth surface for applications requiring an aesthetically clean look
- Particularly useful in clean room, packaging, medical and pharmaceutical applications as they reduce areas where contaminants and dirt could potentially accumulate

Technical Data

Aluminum, Clear Anodized [See Technical Data page 17 for full material and finish specifications]

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	9.29	9.29	4.64	4.64	6.67	1.81
10-240	9.57	9.13	4.79	4.57	6.73	1.82
10-340	9.94	9.33	4.01	4.66	6.83	1.82
10-440	8.47	8.71	4.08	4.35	5.81	1.56

Ordering Information

Description	Max. Length	Part # (Clear)
Profile 40x40 Bi-Slot Corner	6 meters	10-140
Profile 40x40 Bi-Slot Mid-Frame	6 meters	10-240
Profile 40x40 Tri-Slot	6 meters	10-340
Profile 40x40 Mono-Slot	6 meters	10-440
Cut to Length Service Number		19-001

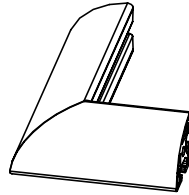
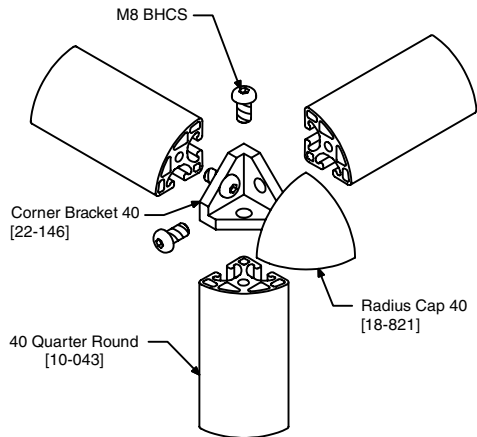
End Caps

40x40

Part

18-813

40 Series



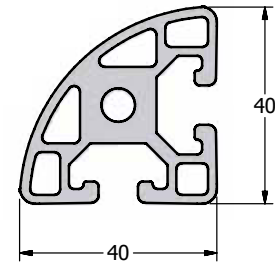
**Note: See page 86
for miter connector.**

Application

This profile is designed with a radius quarter round face and T-Slots on the remaining perpendicular sides. This is particularly useful for engineering frames, workstation edges, shelving or enclosures where a rounded edge is aesthetically or functionally desirable.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)



10-043

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
10-043	6.95	6.95	3.15	3.15	5.87	1.59

Ordering Information

Description

Profile 40x40 Quarter Round

Cut to Length Service Number

Max. Length

6 meters

Part # (Clear)

10-043

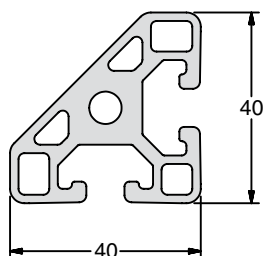
19-001

End Caps

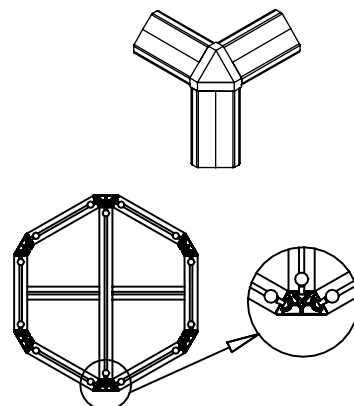
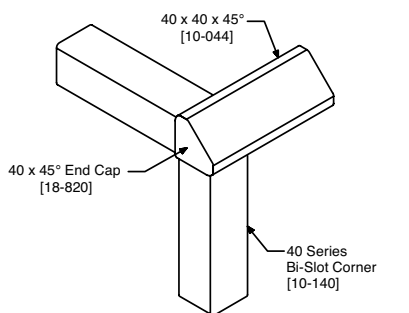
40x40 Quarter Round

Part

18-843



10-044



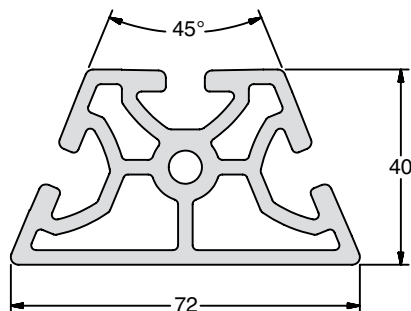
Application

With angled faces and perpendicular T-Slots, profile 10-044 is ideal for smoothing corners of structures for clean room, medical, pharmaceutical as well as display and workstation applications.

Profile 10-045 provides T-Slots on three sides: one parallel with the closed face, and two positioned to provide a 45° angle. This profile can be used when creating polygonal shaped structures.

Technical Data

Aluminum, Clear Anodized [See Technical Data page 17 for full material and finish specifications]



10-045*

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	6.79	6.79	3.03	3.03	5.72	1.53
10-045	16.25	34.51	7.40	12.20	10.22	2.76

Ordering Information

Description

Profile 40x40-45° Standard
Profile 40x45° Heavy
Cut to Length Service Number

Max. Length

6 meters
3 meters

Part # (Clear)

10-044
10-045
19-001

End Caps

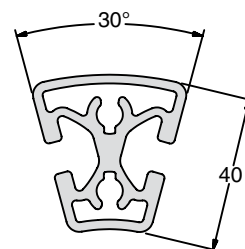
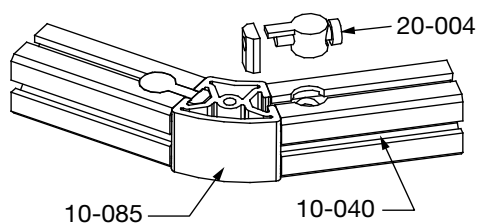
40x40-45°

Part

18-820

* No end cap available

40 Series



10-083

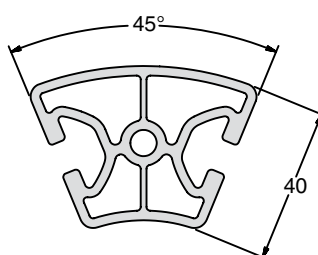
Application

Radius surfaces on two facing sides make these profiles particularly useful for creating rounded corners. They are ideal for applications requiring an aesthetically pleasing look, or where contaminants and dirt must be kept to a minimum such as medical and pharmaceutical environments. These profiles are also useful in constructing cases, tables and angled structure bases.

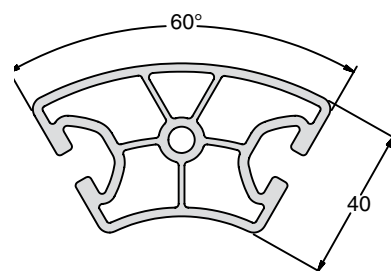
Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
10-083	8.48	5.87	4.01	3.64	5.71	1.57
10-085	10.96	16.64	4.75	8.23	6.99	1.92
10-086	13.02	35.75	6.30	10.38	8.26	2.25
10-089	21.68	110.54	8.73	20.89	12.67	3.44



10-085



10-086

Ordering Information

Description

Profile R40x80 30° Standard
Profile R40x80 45° Standard
Profile R40x80 60° Standard
Profile R40x80 90° Standard
Cut to Length Service Number

Max. Length

3 meters
6 meters
6 meters
6 meters

Part # (Clear)

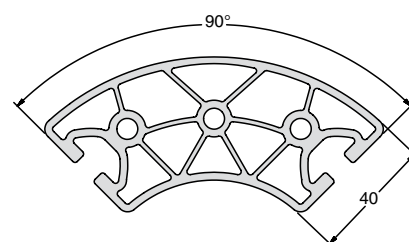
10-083
10-085
10-086
10-089
19-001

End Caps

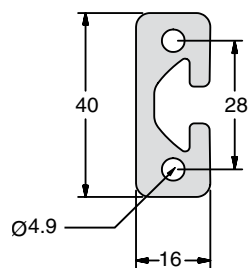
10-083
10-085
10-086

Part

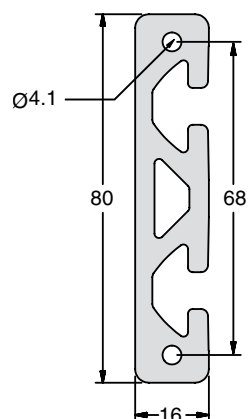
18-883
18-885
18-886



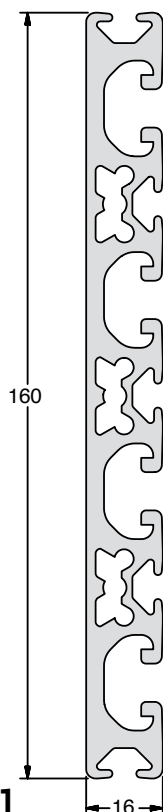
10-089



10-016



10-081



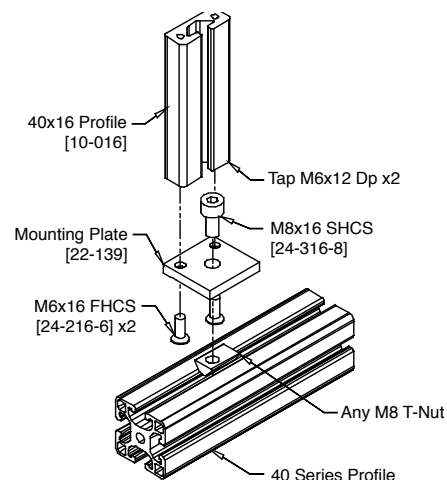
10-161

Application

Light construction and support for attaching items such as valves, limit switches, pneumatics and control equipment. Profile 10-081 can be used as a base plate on Roller System 6 Bearing Units. Profile 10-161 has a large surface area with 8mm and 5mm T-Slots providing convenient attachment points for multiple accessories (this profile should not be used as a structural member).

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)



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	1.10	7.19	1.29	3.60	4.38	1.17
10-081	2.22	50.72	2.61	12.68	8.41	2.20
10-161	3.37	289.10	4.13	36.14	12.98	3.45

Ordering Information

Description

Profile 16x40
Profile 16x80
Cut to Length Service Number
Profile 16x160
Cut to Length Service Number

Max. Length

6 meters
6 meters
6 meters

Part # (Clear)

10-016
10-081
19-001
10-161
19-003

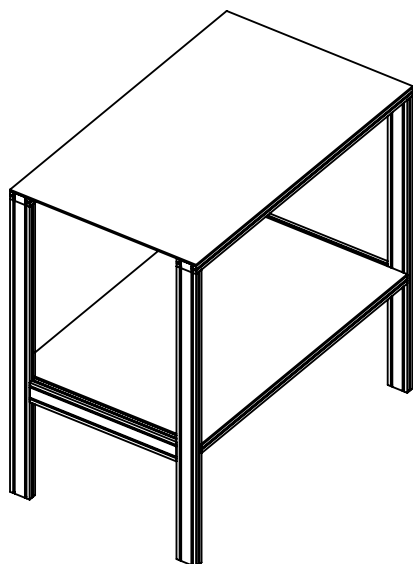
End Caps

Profile 16x40
Profile 16x80
Profile 16x160

Part

18-811
18-812
18-806

Profiles



Application

These heavy profiles are ideal for general engineering structures such as machine bases, structural supports and mounting surfaces on fixturing applications. 11-128 is used as a carriage plate for bearing block assemblies on Linear System 14.

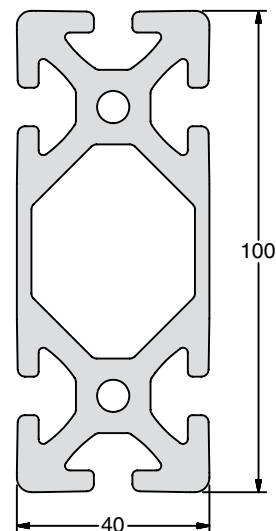
Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)

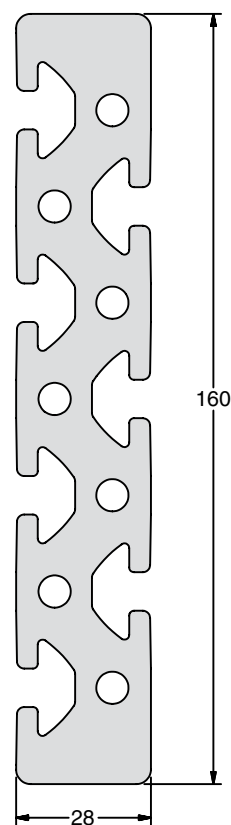
Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
11-100	31.22	193.34	15.61	38.67	18.02	4.94
11-128	20.62	737.99	14.73	92.25	31.27	8.46

Ordering Information

Description	Max. Length	Part # (Clear)
Profile 40x100 Heavy	6 meters	11-100
Cut to Length Service Number		19-002
Profile 28x160	6 meters	11-128
Cut to Length Service Number		19-003
End Cap	Part #	
28x160	18-816	

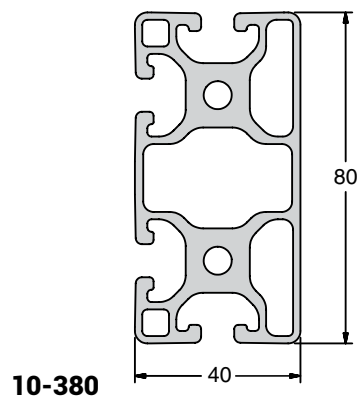
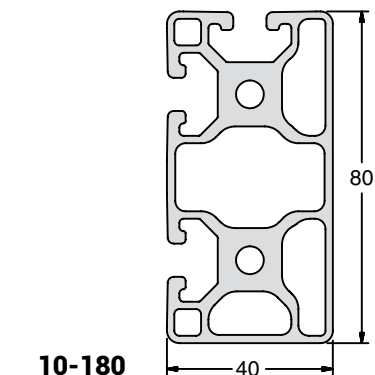
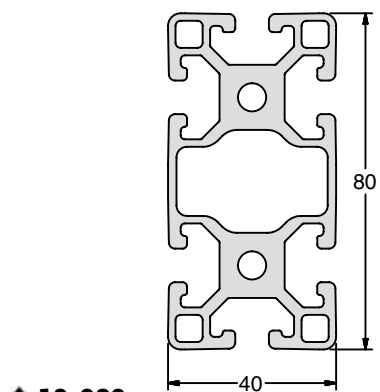
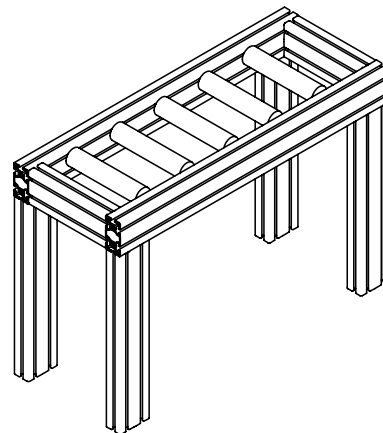
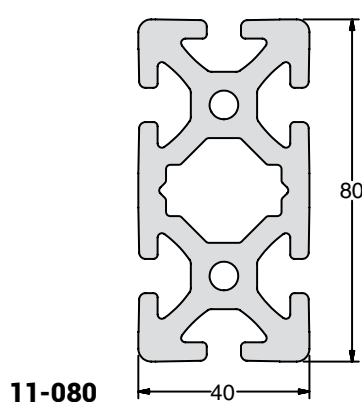
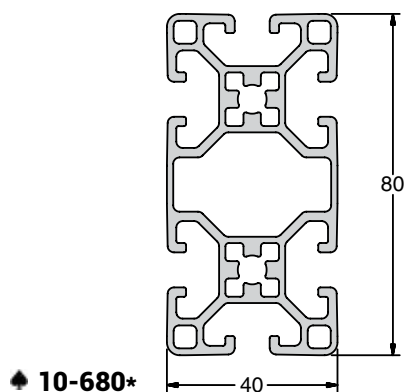


11-100*



11-128

* No end cap available.



Application

Designed for applications where high strength is required. Ideal for general engineering structures such as machine frames, work stations and support structures. Profiles 10-080 and 11-080 can be used in the construction of linear slides with the IPS Roller Systems. Both profiles can also be used for compressed air piping.

Technical Data

Aluminum, Clear or Black Anodized [See Technical Data page 17 for full material and finish specifications]

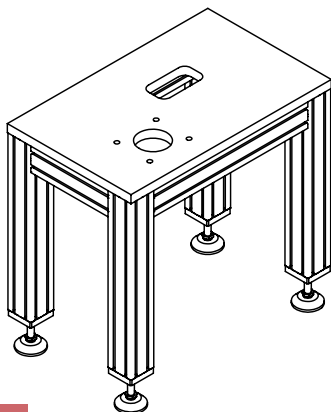
Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
10-680	15.30	58.78	7.65	14.70	9.10	2.46
10-080	17.23	71.56	8.62	17.89	11.49	3.18
10-180	16.61	68.92	8.14	17.15	11.16	2.83
10-380	16.77	69.20	8.21	17.30	11.28	3.06
11-080	26.97	102.65	13.48	25.66	16.74	4.58

Ordering Information

Description	Max. Length	Part # (Clear)	Part # (Black)
Profile 40x80 Light	6 meters	10-680	
Profile 40x80 Standard	6 meters	10-080	10-080B
Profile 40x80 Tri-Slot Corner	6 meters	10-180	
Profile 40x80 Quad-Slot	6 meters	10-380	
Profile 40x80 Heavy	6 meters	11-080	
Cut to Length Service Number		19-001	
End Cap	Part #		
40x80	18-814		

*End tap requires spiral tap

40 Series



Application

Designed for heavy duty applications and construction of linear slides with IPS roller systems, these profiles are also suitable for compressed air piping. Profile 11-089 can be used as a manifold for pressurized air (150 psi). This diameter can also be used to house electrical or air lines.

Technical Data

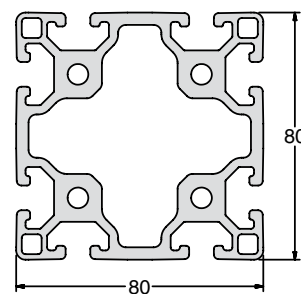
Aluminum, Clear or Black Anodized (See Technical Data page 17 for full material and finish specifications).

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	136.85	136.85	34.21	34.21	19.98	5.45
11-088	186.36	186.37	46.59	46.59	26.23	7.02
11-089	223.90	223.90	55.97	53.97	37.39	9.83
11-122	269.71	556.69	67.42	89.78	37.95	10.28

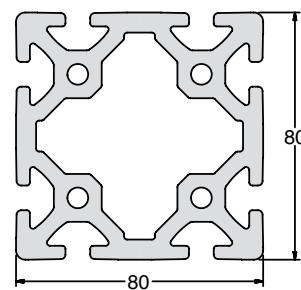
Ordering Information

Description	Max. Length	Part # (Clear)	Part # (Black)
Profile 80x80 Standard	6 meters	10-088	10-088B
Profile 80x80 Heavy	6 meters	11-088	
Cut to Length Service Number		19-002	19-002
Profile 80x80 Extra Heavy	6 meters	11-089**	
Profile 80x120 Heavy	6 meters	11-122	
Cut to Length Service Number		19-003	

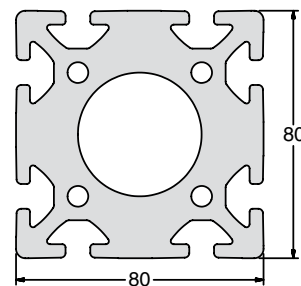
End Caps	Part #
80x80	18-815
80x120	18-841



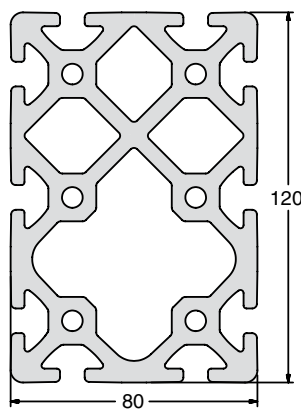
10-088



11-088

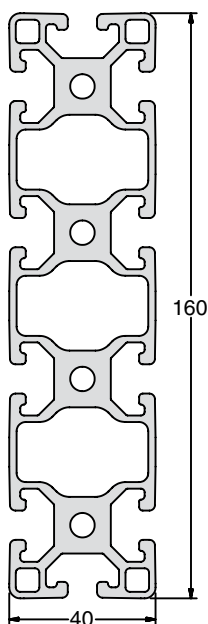


11-089**

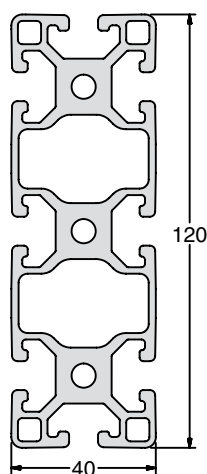


11-122

** Requires single ear fastener 20-144 / 25-014



10-164



10-120

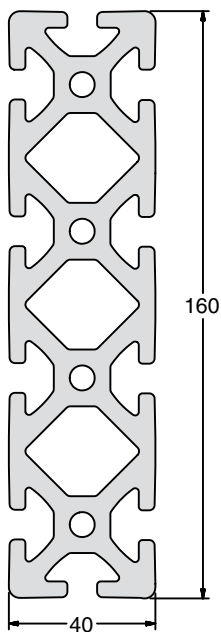
Application

Designed for applications such as fixturing, vertical structural support and headers for bearing block assemblies on IPS Linear System 14. These profiles are also suitable for compressed air piping.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)

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	25.04	225.56	12.52	37.59	16.66	4.35
10-164	32.84	510.4	16.42	63.8	21.23	5.80
11-140	53.10	738.07	26.55	92.26	32.17	8.72



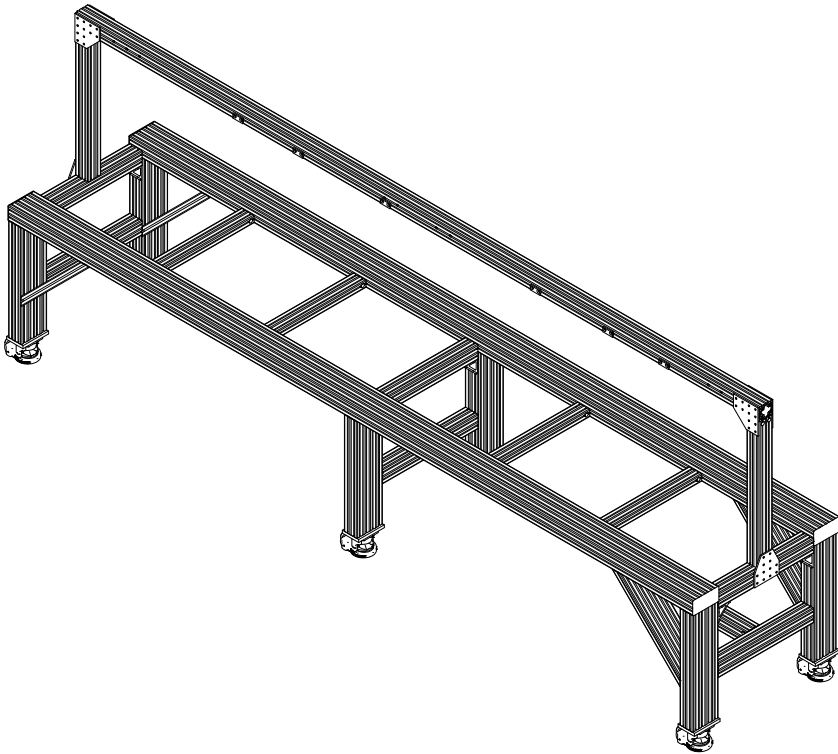
11-140

Ordering Information

Description	Max. Length	Part # (Clear)
Profile 40x120 Standard	6 meters	10-120
Profile 40x160 Standard	6 meters	10-164
Profile 40x160 Heavy	6 meters	11-140
Cut to Length Service Number		19-003

End Caps	Part #
40x120	18-840
40x160	18-817

40 Series



Application

Designed for very high load or wide span applications and construction of linear slides with IPS Roller Systems. These high-strength profiles are also suitable for compressed air piping.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)

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	268.68	913.56	67.17	114.23	37.76	10.29
11-160	351.77	1176.22	87.94	147.02	46.76	12.67

Ordering Information

Description

Profile 80x160 Standard
Profile 80x160 Heavy
Cut to Length Service Number

Max. Length

6 meters
6 meters

Part # (Clear)

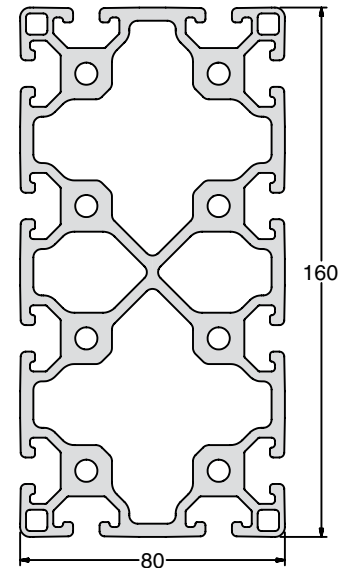
10-160
11-160
19-003

End Cap

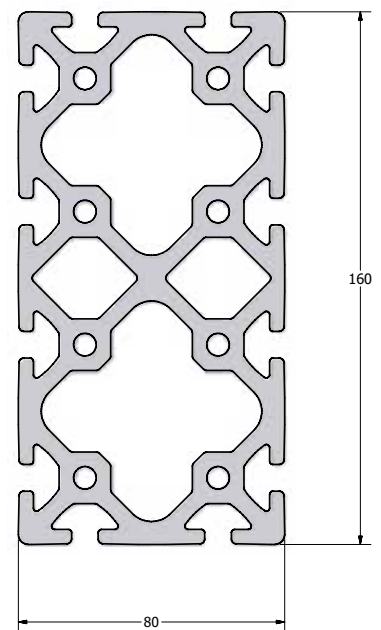
80x160

Part

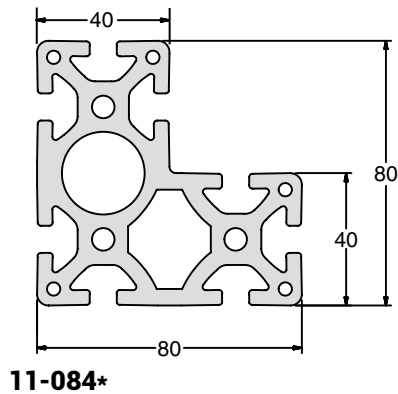
18-818



10-160



11-160



* No end cap available



Application

Designed for very high load construction corner posts in structures or machine assemblies.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications).

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
11-084	127.47	128.57	27.62	27.66	23.23	6.27

Ordering Information

Description

Profile 40x80x80 Corner Heavy
Cut to Length Service Number

Max. Length

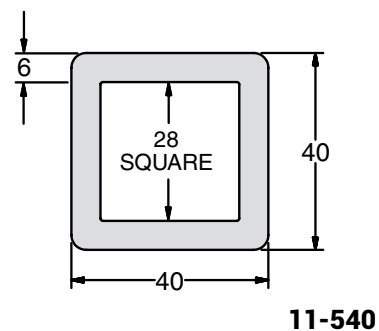
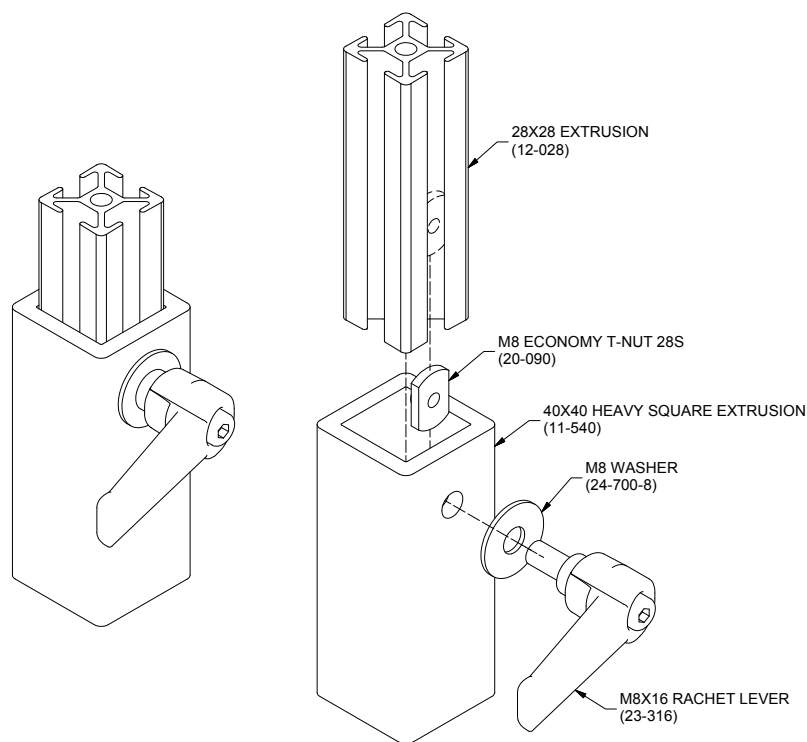
6 meters

Part # (Clear)

11-084

19-003

40 Series



Application

These profiles are engineered as support elements for a variety of applications including table bases, frames and machine guarding. These profiles are engineered to create a telescoping post for lightweight applications. This cavity can also be used as a channel for counterweights. To mount the 11-540, please contact the factory.

Technical Data

Aluminum, Clear Anodized [See Technical Data page 17 for full material and finish specifications]

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	15.78	15.78	7.89	7.89	7.98	2.16

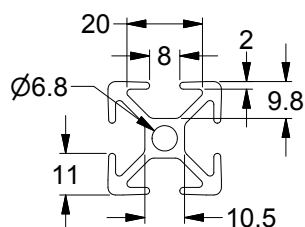
Ordering Information

Description	Max. Length	Part # (Clear)
Profile 40x40 Heavy Square	6 meters	11-540
Cut to Length Service Number		19-001

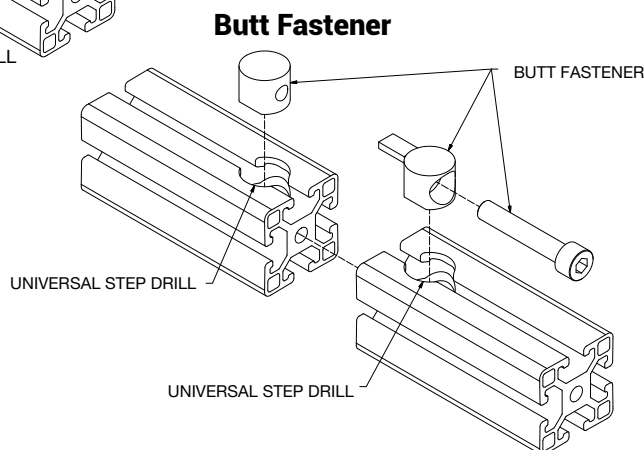
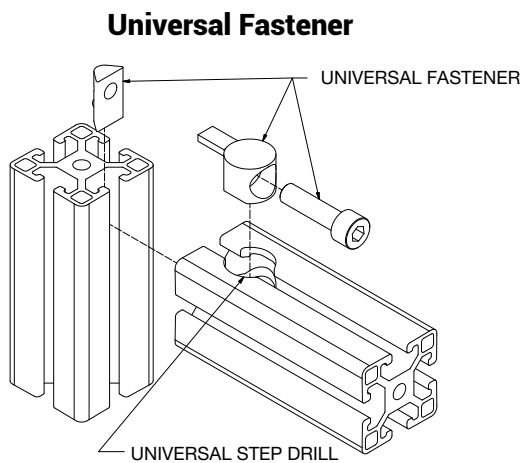
End Caps	Part #
40x40 (11-540 only)	18-805

Part #	Description	Moment of Inertia		Section Modulus		Section [cm ²]	Weight [kg/m]	Cat. Page
		I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]			
12-030	Profile 30x30	3.15	3.15	2.10	2.10	3.33	0.90	33
12-033	Profile 30x30 Quarter Round	2.48	2.48	1.51	1.51	3.13	0.85	34
12-034	Profile 30x30 Bi-Slot Corner	3.52	3.51	2.24	2.23	3.69	1.00	33
12-060	Profile 30x60	6.12	21.20	4.08	7.07	6.19	1.68	35

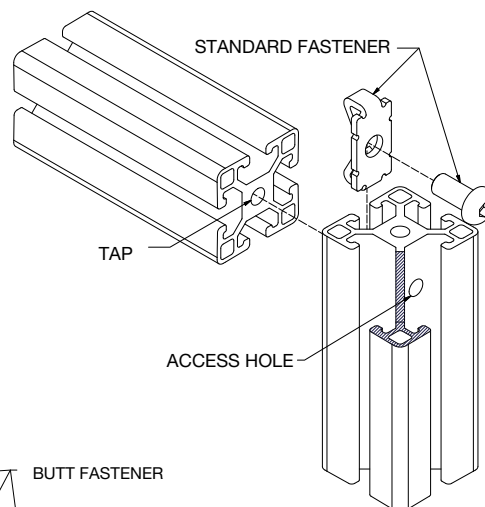
T-Slot Detail



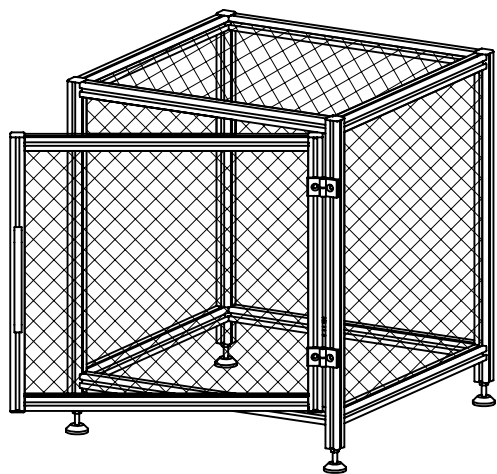
Fastening Methods



Standard Fastener



30 Series



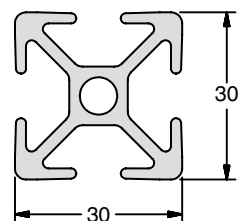
Application

Designed for general structures, safety guards and partition frames, light duty enclosures and industrial peripherals. Profile 12-034 has closed faces on two perpendicular sides making it ideal for constructing smooth corners.

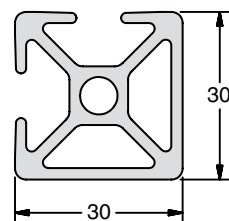
Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)

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	3.15	3.15	2.10	2.10	3.33	0.90
12-034	3.52	3.51	2.24	2.23	3.69	1.00



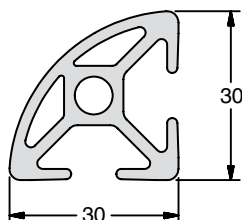
12-030



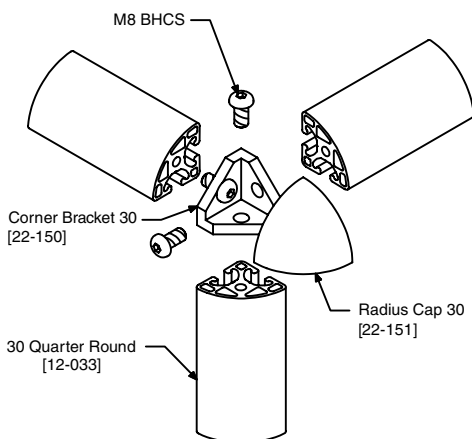
12-034

Ordering Information

Description	Max. Length	Part # (Clear)
Profile 30x30	6 meters	12-030
Profile 30x30 Bi-Slot Corner	6 meters	12-034
Cut to Length Service Number		19-001
End Cap	Part #	
30x30	18-803	



12-033



Application

Designed with a quarter round smooth face and T-Slots, this profile is particularly useful for engineering frames, shelving or enclosures where a radius edge is aesthetically or functionally desirable.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
12-033	2.48	2.48	1.51	1.51	3.13	0.85

Ordering Information

Description

Profile 30x30 Quarter Round
Cut to Length Service Number

Max. Length

6 meters

Part

12-033
19-001

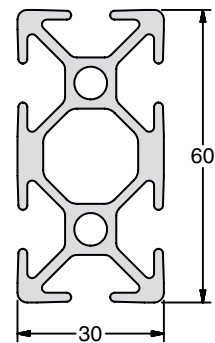
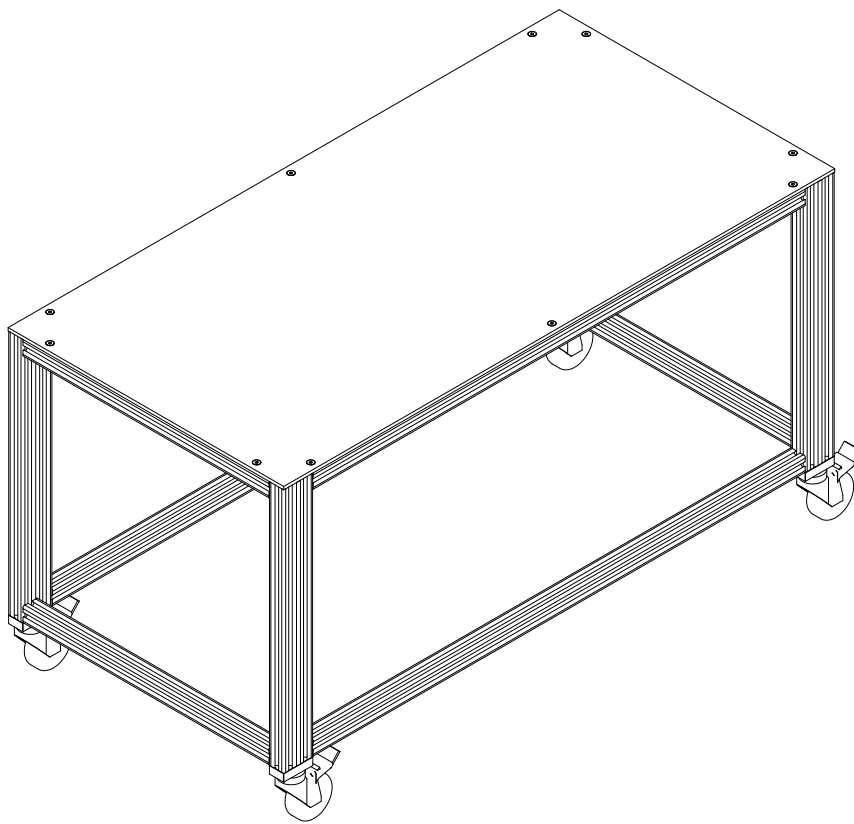
End Cap

30x30 Quarter Round

Part

18-838

30 Series



12-060

Application

These profiles are ideal for general use structures, safety guards and partition frames, light duty enclosures and industrial peripherals.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
12-060	6.12	21.20	4.08	7.07	6.19	1.68

Ordering Information

Description

Profile 30x60

Cut to Length Service Number

Max. Length

6 meters

Part

12-060

19-001

End Cap

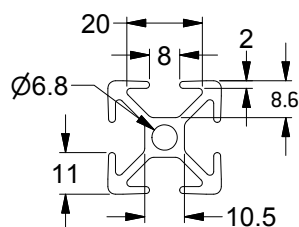
30x60

Part

18-863

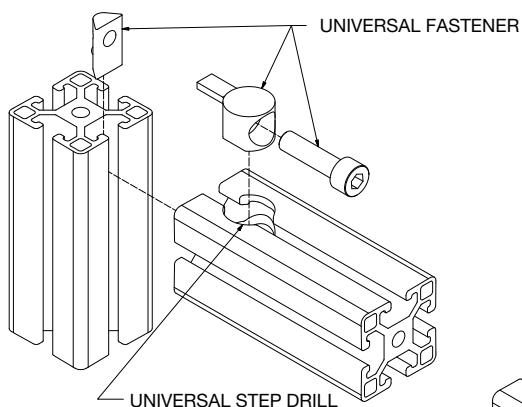
Part #	Description	Moment of Inertia		Section Modulus		Section [cm ²]	Weight [kg/m]	Cat. Page
		I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]			
12-028	Profile 28x28	2.37	2.27	1.70	1.62	2.96	0.81	37
12-428	Profile 28x56	4.65	16.42	3.32	5.86	5.60	1.51	37
12-056	Profile 56x56	30.44	30.44	10.87	10.87	8.87	2.40	37
12-128	Profile 28x28 Tri-Slot	2.64	2.35	1.78	1.68	3.12	0.84	38
12-228	Profile 28x28 Bi-Slot	2.69	2.69	1.83	1.83	3.32	0.90	38
12-328	Profile 28x28 Bi-Slot Mid-Frame	2.41	3.00	1.72	2.14	3.32	0.90	38
12-044	Profile 28x28 45 Deg.	1.97	1.97	1.28	1.28	2.87	0.78	39
12-628	Profile 28x56 Bi-Slot	5.92	18.01	4.23	6.43	6.36	1.72	40
12-728	Profile 28x56 Quad-Slot	5.23	17.10	3.53	6.11	5.96	1.62	40

T-Slot Dimensions

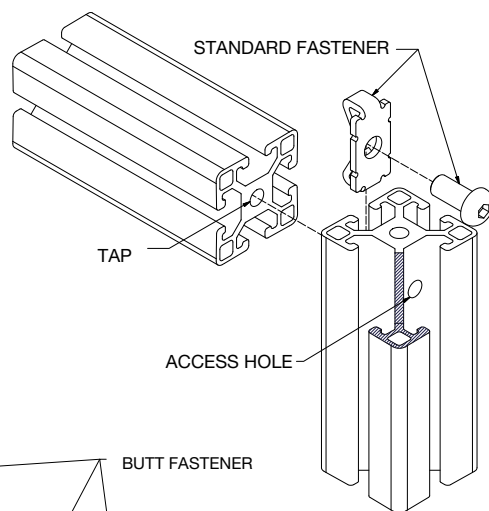


Fastening Methods

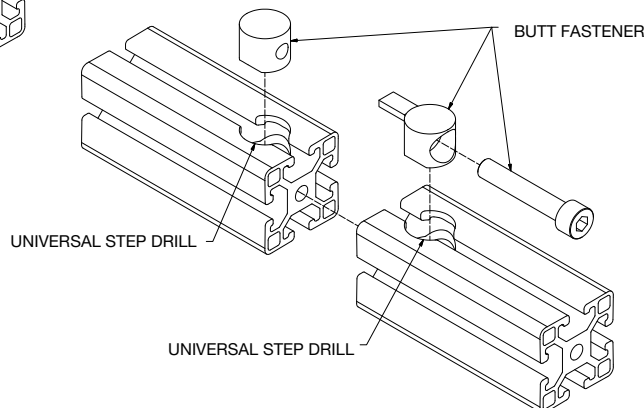
Universal Fastener



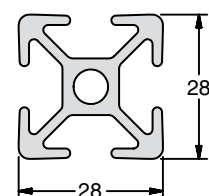
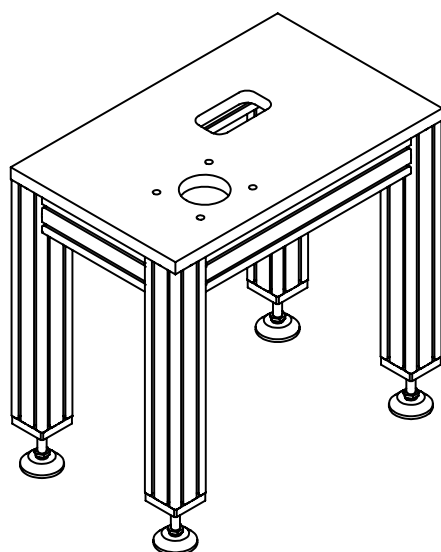
Standard Fastener



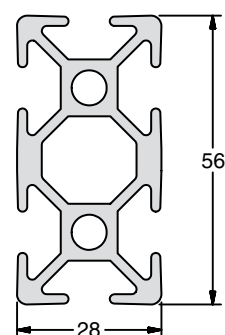
Butt Fastener



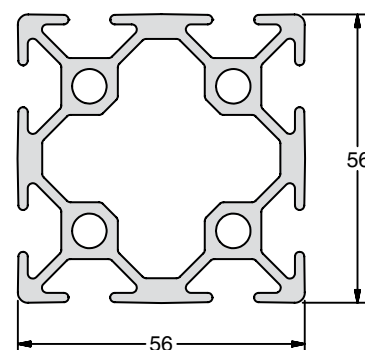
28 Series



12-028 ◆



12-428



12-056*

* No end cap available

Application

These profiles are designed with T-slot faces on all four sides. They are useful for constructing safety guards, partition frames, light duty enclosures and industrial peripherals.

Technical Data

Aluminum, Clear Anodized [See Technical Data page 17 for full material and finish specifications]

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	2.37	2.27	1.70	1.62	2.96	0.81
12-428	4.65	16.42	3.32	5.86	5.60	1.51
12-056	30.44	30.44	10.87	10.87	8.87	2.40

Ordering Information

Description

Profile 28x28

Profile 28x56

Profile 56x56

Cut to Length Service Number

Max. Length

6 meters

6 meters

6 meters

Part

12-028

12-428

12-056

19-001

End Caps

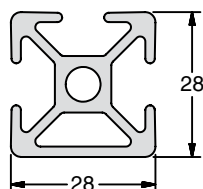
28x28

28x56

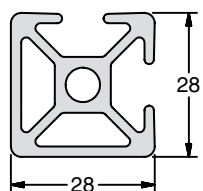
Part

18-808

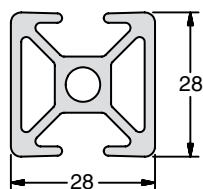
18-809



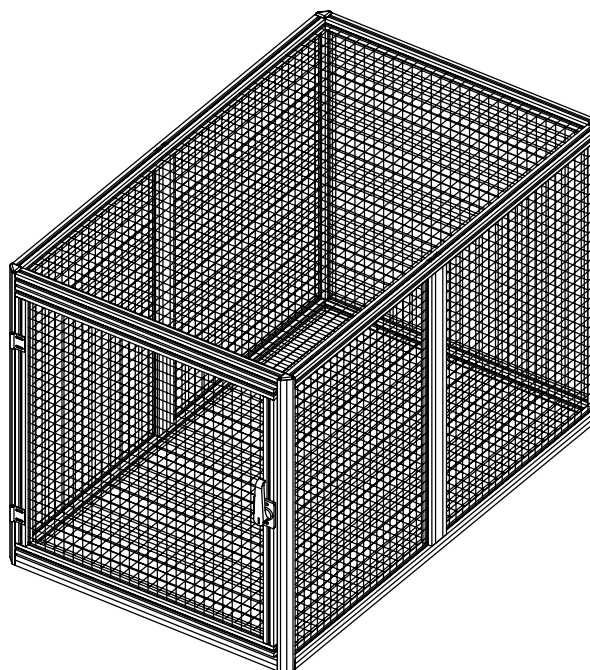
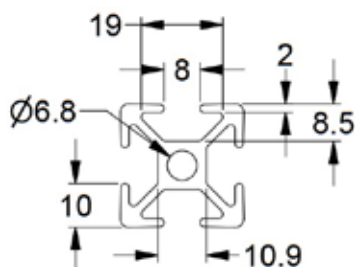
12-128



12-228



12-328



Application

Designed with various closed faces, these profiles provide efficient fastening in a variety of configurations while retaining a smooth exterior for an aesthetically clean look.

Technical Data

Aluminum, Clear Anodized [See Technical Data page 17 for full material and finish specifications]

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
12-128	2.64	2.35	1.78	1.68	3.12	0.84
12-228	2.69	2.69	1.83	1.83	3.32	0.90
12-328	2.41	3.00	1.72	2.14	3.32	0.90

Ordering Information

Description

Profile 28x28 Tri-Slot
Profile 28x28 Bi-Slot
Profile 28x28 Bi-Slot Mid-Frame
Cut to Length Service Number

Max. Length

6 meters
6 meters
6 meters

Part

12-128
12-228
12-328
19-001

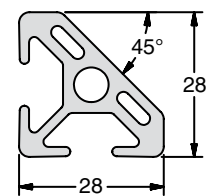
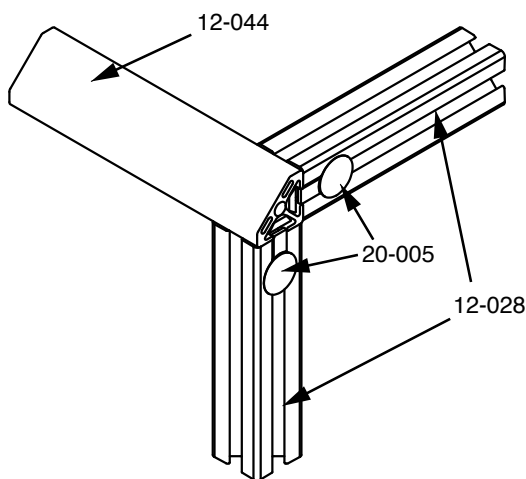
End Cap

28x28

Part

18-808

28 Series



12-044

Application

Designed with an angled closed face and T-Slots on two sides. This profile is ideal for applications where perpendicular surfaces are not desired.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
12-044	1.97	1.97	1.28	1.28	2.87	0.78

Ordering Information

Description

Profile 28x28 45°

Cut to Length Service Number

Max. Length

3 meters

Part

12-044

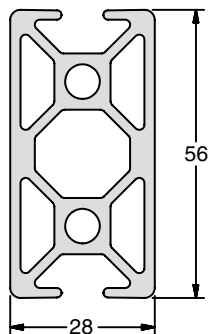
19-001

End Cap

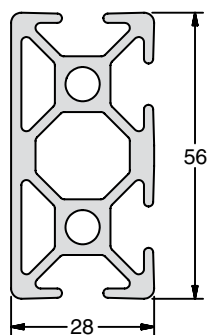
28x28-45°

Part

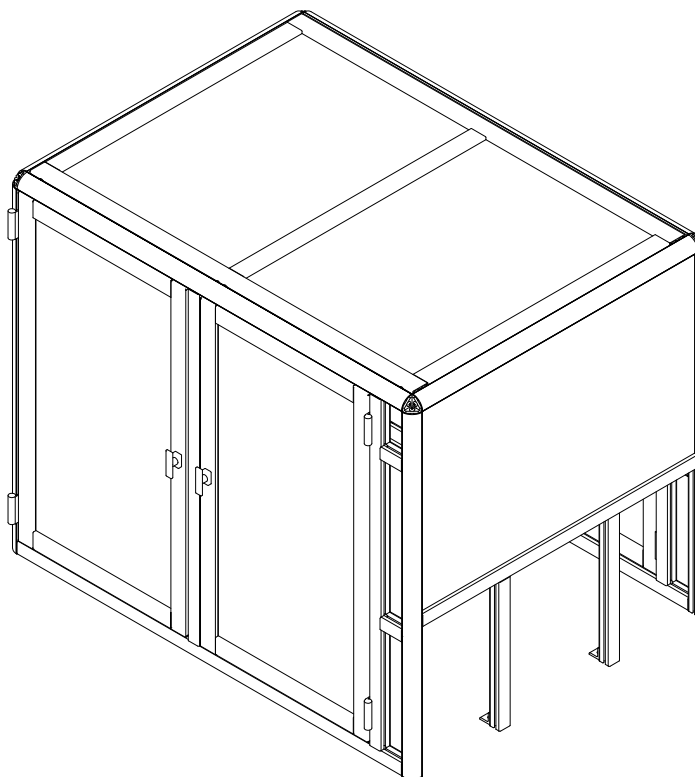
18-844



12-628



12-728



Application

Designed with various closed faces, these profiles provide efficient fastening in a variety of configurations while retaining a smooth exterior for an aesthetically clean look.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
12-628	5.92	18.01	4.23	6.43	6.36	1.72
12-728	5.23	17.10	3.53	6.11	5.96	1.62

Ordering Information

Description

Profile 28x56 Bi-Slot
Profile 28x56 Quad-Slot
Cut to Length Service Number

Max. Length

6 meters
6 meters

Part

12-628
12-728
19-001

End Cap

28x56

Part

18-809

Profiles & Accessories

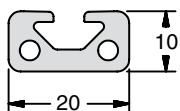
Profiles & Accessories

Profiles & Accessories

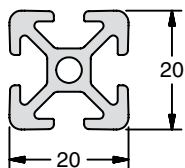


Profiles & Accessories

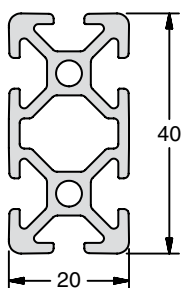




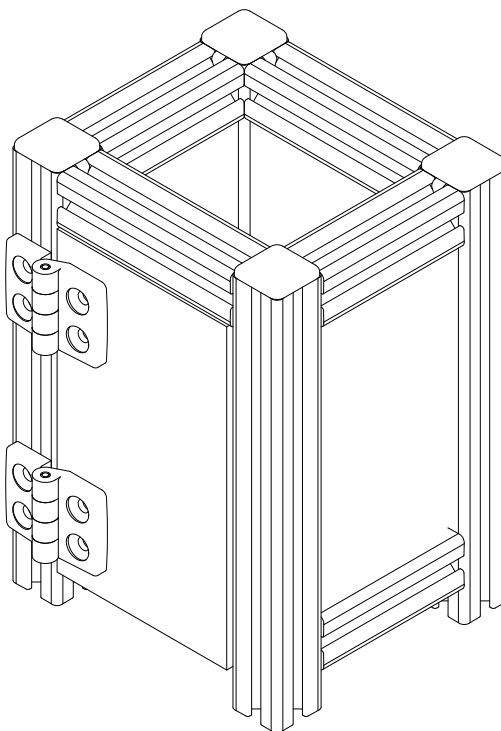
12-120



12-020



12-124



Application

20 Series profiles are designed for light duty enclosures and fixtures. They are also useful in building light accessories and components on workstations or assembly tables. The 5mm T-slot requires 20 Series hardware.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)

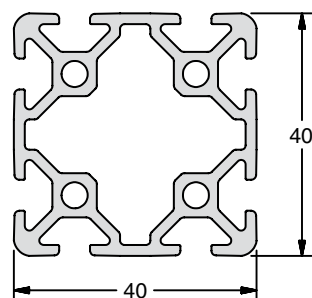
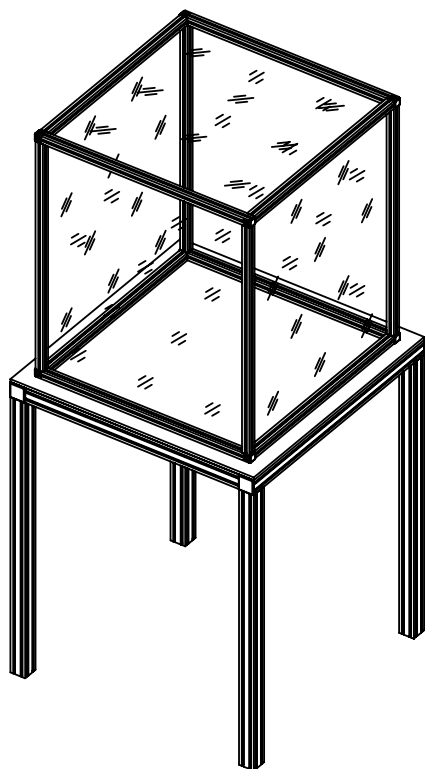
Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
12-120	0.12	0.53	0.22	0.53	1.29	0.35
12-020	0.73	0.73	0.73	0.73	1.80	0.52
12-124	1.33	5.03	1.33	2.52	3.16	0.86

Ordering Information

Description	Max. Length	Part # (Clear)
Profile 10x20	3 meters	12-120
Profile 20x20	6 meters	12-020
Profile 20x40	3 meters	12-124
Cut to Length Service Number		19-001

End Caps	Part #
10x20	18-830
20x20	18-802
20x40	18-831

20 Series



12-040

Application

20 Series profiles are designed for light duty enclosures and fixtures. They are also useful in building light accessories and components on workstations or assembly tables. The 5mm T-Slot requires 20 Series hardware.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specifications)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
12-040	8.74	8.74	4.37	4.37	4.83	1.32

Ordering Information

Description

Profile 40x40, 20 Series
Cut to Length Service Number

Max. Length

6 meters

Part # (Clear)

12-040
19-001

End Cap

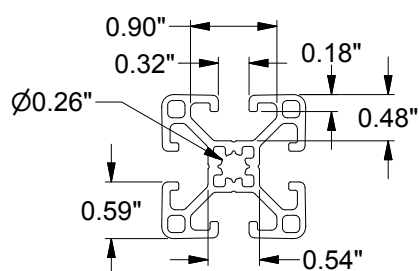
40x40

Part

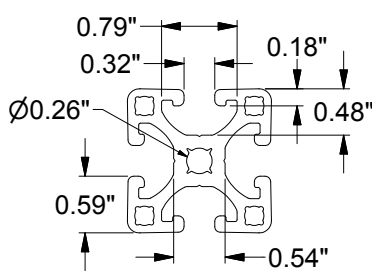
18-832

Part #	Description	Moment of Inertia		Section Modulus		Section [cm ²]	Weight [kg/m]	Page
		I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]			
10-1515	Profile 1.5" x 1.5" Standard	8.49	8.49	4.46	4.46	6.19	1.70	45
10-1530	Profile 1.5" x 3" Standard	15.15	61.85	7.95	16.23	10.38	2.81	48
10-1543	Profile 1.5" Quarter Round	6.16	6.16	2.90	2.90	5.48	1.47	47
10-1560	Profile 1.5" x 6" Standard	27.97	420.89	14.68	55.24	18.33	6.98	50
10-1591	Profile 1.5" x 1.5" Mono-Slot	8.53	8.70	4.47	4.57	6.20	1.68	46
10-1592	Profile 1.5" x 1.5" Bi-Slot Corner	8.62	8.62	4.51	4.51	3.24	1.68	46
10-1593	Profile 1.5" x 1.5" Tri-Slot	8.66	8.49	4.53	4.46	6.22	1.69	46
10-1594	Profile 1.5" x 1.5" Bi-Slot Midframe	8.78	8.45	4.61	4.44	6.21	1.68	46
10-3030	Profile 3" x 3" Standard	113.38	113.38	29.76	29.76	17.42	4.72	49
11-1515	Profile 1.5" x 1.5" Heavy	11.24	11.24	5.90	5.90	7.74	2.10	45
11-1530	Profile 1.5" x 3" Heavy	21.10	78.79	11.08	20.68	14.00	3.72	48
11-3030	Profile 3" x 3" Heavy	146.43	146.43	38.43	38.43	22.61	6.04	49
12-1515	Profile 1.5" x 1.5" Light	7.08	7.08	3.72	3.72	4.82	1.31	45
12-1530	Profile 1.5" x 3" Light	13.10	49.63	6.88	13.03	8.43	2.28	48

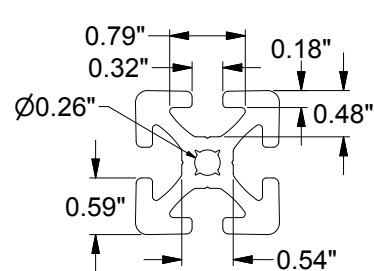
T-Slot Detail



Light



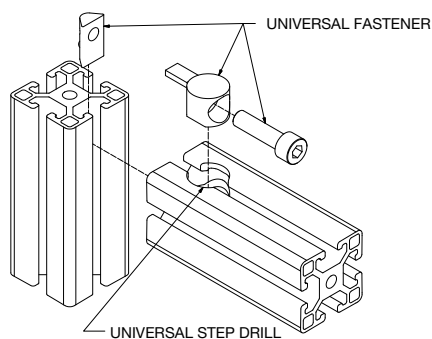
Standard



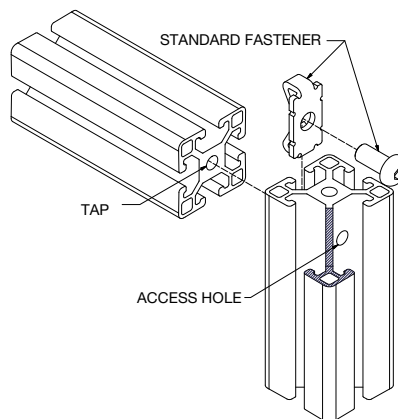
Heavy

Fastening Methods

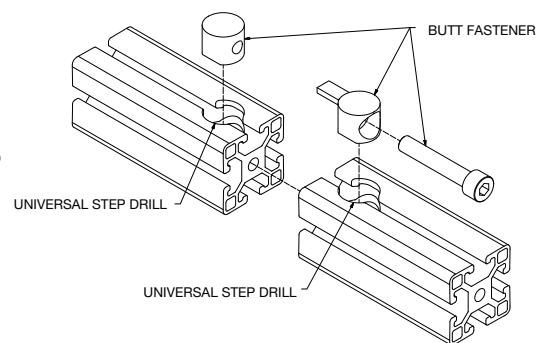
Universal Fastener



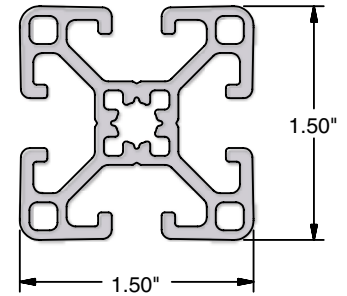
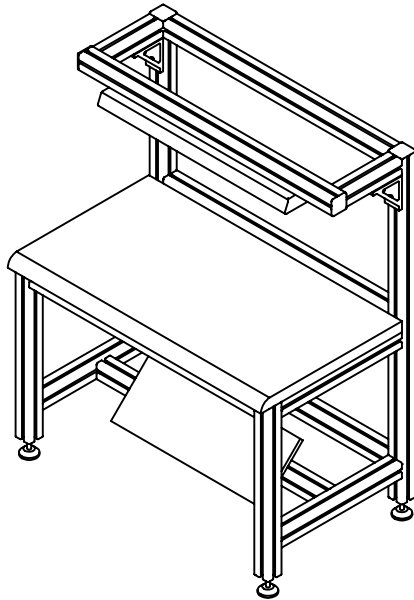
Standard Fastener



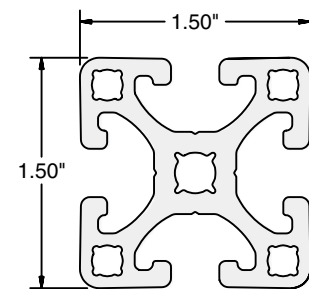
Butt Fastener



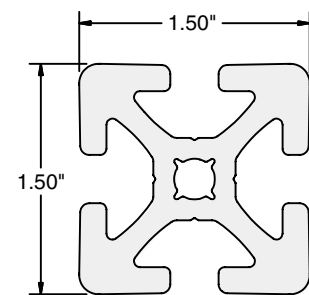
1.5" Series



12-1515* ♦



10-1515 ♦



11-1515

*End tap requires spiral tap

Application

The 12-1515, 10-1515 and 11-1515 are ideal general purpose extrusions for guards, enclosures, work stations, tool carts and smaller machine frames. T-slots on four sides allows for effortless mounting of accessories directly onto the structure without additional machining.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specification)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
10-1515	8.49	8.49	4.46	4.46	6.19	1.70
11-1515	11.24	11.24	5.90	5.90	7.74	2.10
12-1515	7.08	7.08	3.72	3.72	4.82	1.31

Ordering Information

Description

Profile 1.5" x 1.5" Light
Profile 1.5" x 1.5" Standard
Profile 1.5" x 1.5" Heavy
Cut to Length Service Number

Max. Length

6 meters
6 meters
6 meters

Part

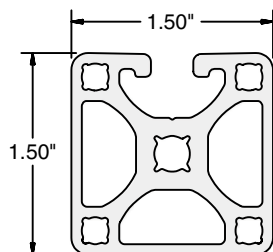
12-1515
10-1515
11-1515
19-001

End Cap

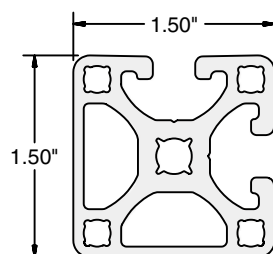
1.5" x 1.5"

Part

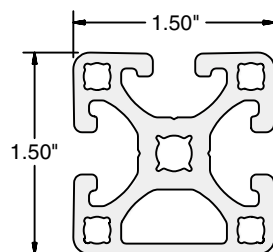
18-1515



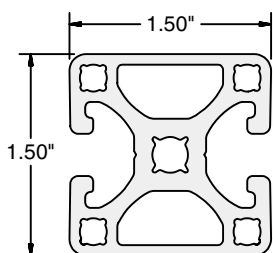
10-1591



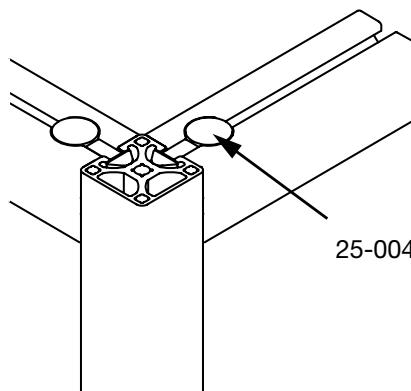
10-1592



10-1593



10-1594



Application

These profiles are designed with various closed faces. They are particularly useful when a smooth appearance is desired. The smooth surfaces are ideal for clean room, packaging, medical and pharmaceutical applications. The option of different T-slotted faces is ideal for fastening the profiles while retaining a smooth exterior to create the most aesthetic appearance.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specification)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
10-1591	8.53	8.70	4.47	4.57	6.20	1.68
10-1592	8.62	8.62	4.51	4.51	6.24	1.68
10-1593	8.66	8.49	4.53	4.46	6.22	1.69
10-1594	8.78	8.45	4.61	4.44	6.21	1.68

Ordering Information

Description

Profile 1.5" x 1.5" Mono-Slot
Profile 1.5" x 1.5" Bi-Slot Corner
Profile 1.5" x 1.5" Tri-Slot
Profile 1.5" x 1.5" Bi-Slot Midframe
Cut to Length Service Number

Max. Length

6 meters
6 meters
6 meters
6 meters

Part

10-1591
10-1592
10-1593
10-1594
19-001

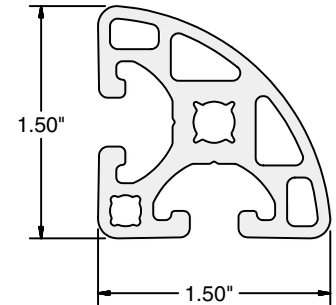
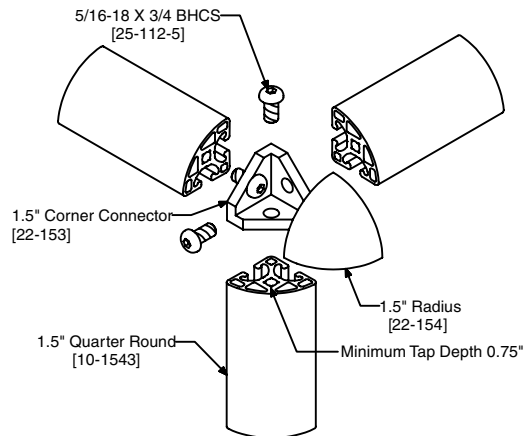
End Cap

1.5" x 1.5"

Part

18-1515

1.5" Series



10-1543

Application

This profile is designed with a curved surface while retaining T-slotted surfaces for connecting. This is particularly useful for rounding or smoothing off corners of structures where ergonomics apply. The smooth surfaces are ideal for clean room, medical and pharmaceutical applications.

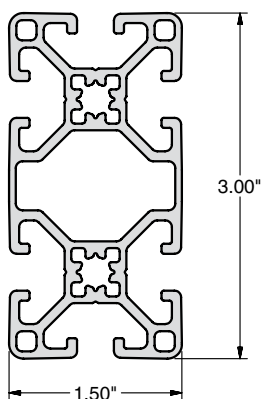
Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish Specification)

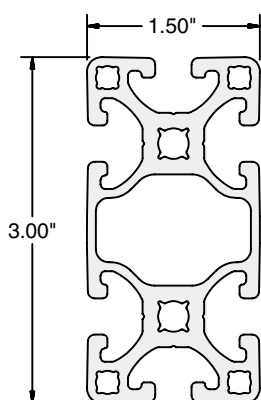
Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
10-1543	6.16	6.16	2.90	2.90	5.48	1.47

Ordering Information

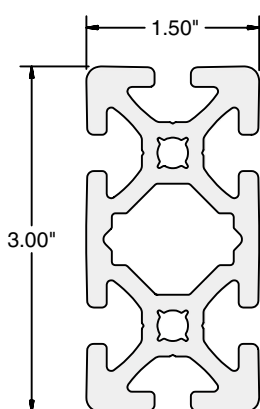
Description	Max. Length	Part #
Profile 1.5" x 1.5" Quarter Round Cut to Length Service Number	6 meters	10-1543 19-001
End Cap	Part #	
1.5" x 1.5" Quarter Round	18-1543	



12-1530*

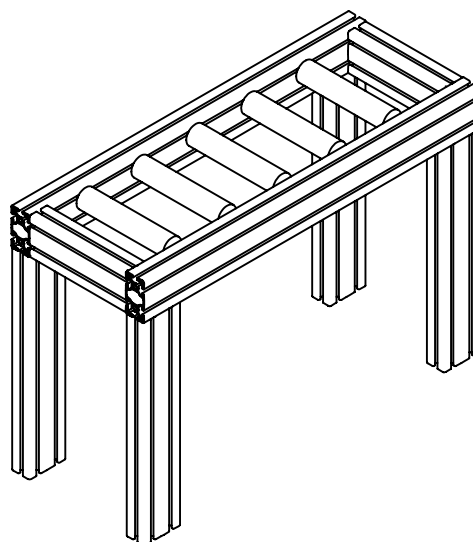


10-1530



11-1530

* End tap requires spiral tap



Application

Profiles 10-1530 and 11-1530 are ideal general purpose extrusions for guards, enclosures, work stations, tool carts and machine frames. They are designed with a high inertial strength in the "Y" axis. This allows higher structural integrity to create more stable and rigid structures. T-slots on four sides allow for effortless mounting of accessories directly onto the structure without additional machining.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish Specification)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
10-1530	15.15	61.85	7.95	16.23	10.38	2.81
11-1530	21.10	78.79	11.08	20.68	14.00	3.72
12-1530	13.10	49.63	6.88	13.03	8.43	2.28

Ordering Information

Description

Profile 1.5" x 3" Light
Profile 1.5" x 3" Standard
Profile 1.5" x 3" Heavy
Cut to Length Service Number

Max. Length

6 meters
6 meters
6 meters

Part

12-1530
10-1530
11-1530
19-001

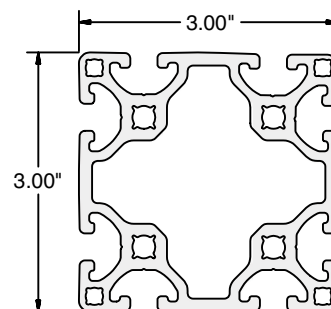
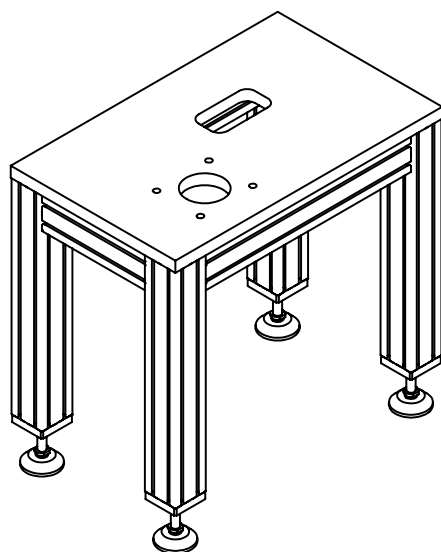
End Cap

1.5" x 3"

Part

18-1530

1.5" Series



10-3030

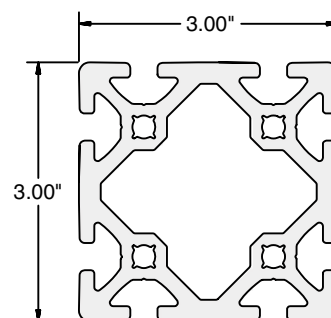
Application

These profiles are designed for medium to heavy duty structures and are ideal for structural support and post applications. These profiles have high structural integrity to create extra stable and rigid structures. T-slots on four sides allow for effortless mounting of accessories directly onto the structure without additional machining.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specification)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
10-3030	113.38	113.38	29.76	29.76	17.42	4.72
11-3030	146.43	146.43	38.43	38.43	22.61	6.04



11-3030

Ordering Information

Description

Profile 3" x 3" Standard

Profile 3" x 3" Heavy

Cut to Length Service Number

Max. Length

6 meters

6 meters

Part

10-3030

11-3030

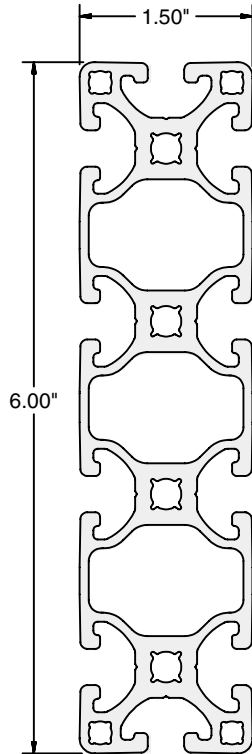
19-002

End Cap

3" x 3"

Part

18-3030



10-1560*

* No end cap available

Application

10-1560 is designed for heavy duty structures and is an ideal profile for structural support and post applications. 10-1560 is designed with a high inertial strength in the "Y" axis. This allows for very high structural integrity to create extra stable and rigid structures. T-slots on four sides allow for effortless mounting of accessories directly onto the structure without additional machining. Because of its multiple T-slots, it is also an ideal profile for a fixture table.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish specification.)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
10-1560	27.97	420.89	14.68	55.24	18.33	6.98

Ordering Information

Description

Profile 1.5" x 6"

Cut to Length Service Number

Max. Length

6 meters

Part

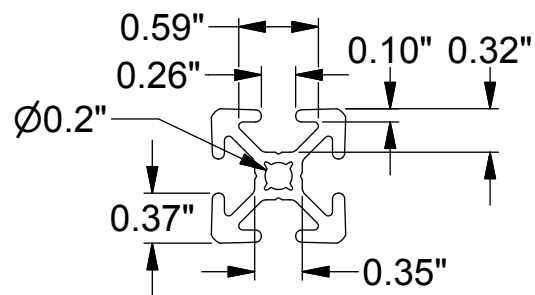
10-1560

19-003

1" Series

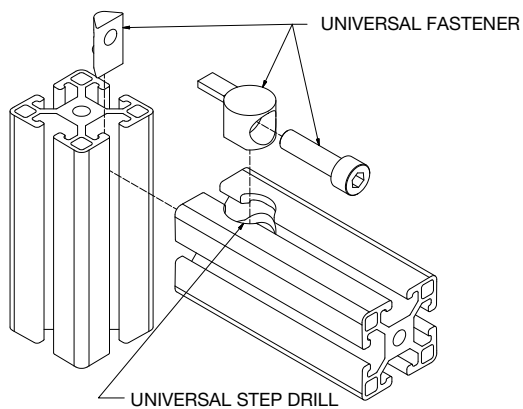
Part #	Description	Moment of Inertia		Section Modulus		Section [cm ²]	Weight [kg/m]	Page
		I _x [cm ⁴]	I _y [cm ⁴]	W _x [cm ³]	W _y [cm ³]			
12-1010	Profile 1" x 1"	1.91	1.91	1.51	1.51	2.84	0.77	52
12-1020	Profile 1" x 2"	3.62	13.03	2.85	5.13	5.16	1.41	52
12-2020	Profile 2" x 2"	23.68	23.68	9.32	9.32	8.13	2.21	52

T - Slot Details

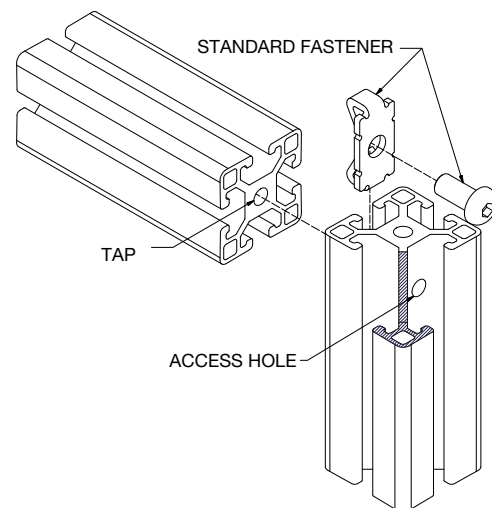


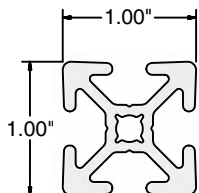
Fastening Methods

Universal Fastener

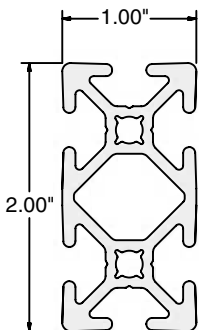


Standard Fastener

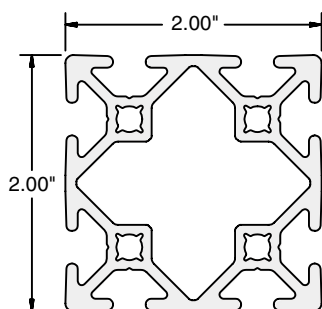




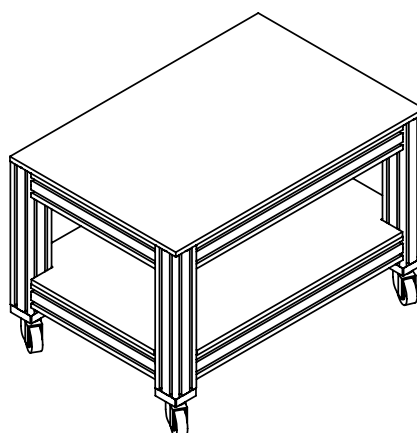
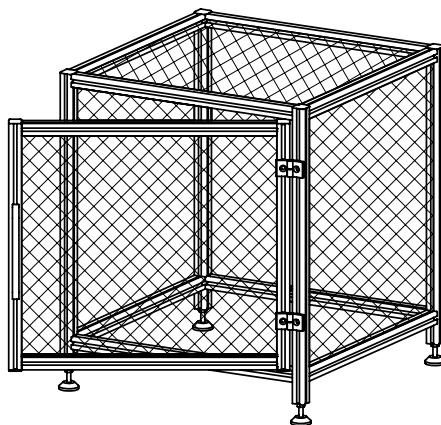
◆ 12-1010



12-1020



12-2020



Application

1" Series profiles are designed for safety guards, enclosures, shelves, and other light to medium duty applications. T-Slots on four sides allows for effortless mounting of accessories directly onto the structure without additional machining. The T-slot is smaller than the 1.5" Series, requiring different hardware. With profile 12-1020, higher rigidity can be attained by orienting the extrusion on its "Y" axis. The 12-2020 profiles are ideal for support and post applications. With their higher rigidity, structures can be built with higher stability.

Technical Data

Aluminum, Clear Anodized (See Technical Data page 17 for full material and finish Specification)

Part #	I_x [cm ⁴]	I_y [cm ⁴]	W_x [cm ³]	W_y [cm ³]	Section [cm ²]	Weight [kg/m]
12-1010	1.91	1.91	1.51	1.51	2.84	0.77
12-1020	3.62	13.03	2.85	5.13	3.16	1.41
12-2020	23.68	23.68	9.32	9.32	8.13	2.21

Ordering Information

Description	Max. Length	Part #
Profile 1" x 1"	6 meters	12-1010
Profile 1" x 2"	6 meters	12-1020
Profile 2" x 2"	6 meters	12-2020
Cut to Length Service Number		19-001

End Caps	Part #
1" x 1"	18-1010
1" x 2"	18-1020
2" x 2"	18-2020

Profile & Accessories

Application

- 12-032 is used for sliding door applications. [See page 130].
- 12-022 is used with 12-032 for large sliding doors. Applications include case packers, material handling equipment, packaging installations, and access panels for large machine enclosures. [See page 131.]
- 14-248 designed for use with rail carts [23-200, 23-201, and 23-202], which can be used in applications such as moving materials on workstations. [See page 134.]

Technical Data

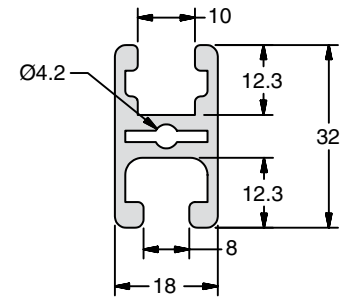
Aluminum, Clear Anodized [See Technical Data page 17 for full material and finish specifications]

Part #	Weight [kg/m]
12-032	0.67
12-022	1.78
14-248	4.19

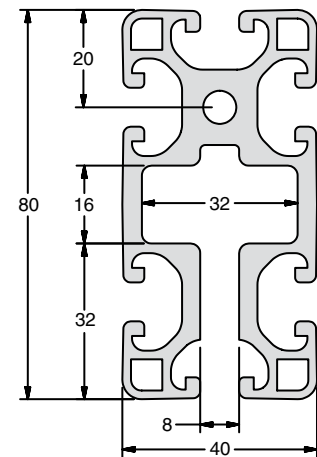
Ordering Information

Description	Max. Length	Part #
Profile 18x32 Bi-Slot	6 meters	12-032
Profile Rolling Door Guide	3 meters	12-022
Profile 40x80 Rail Transport	6 meters	14-248
Cut to Length Service Number		19-001

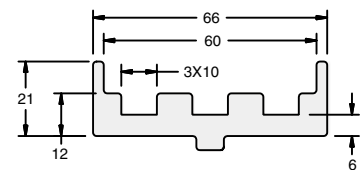
End Cap	Part #
18" x 32"	18-807



12-032

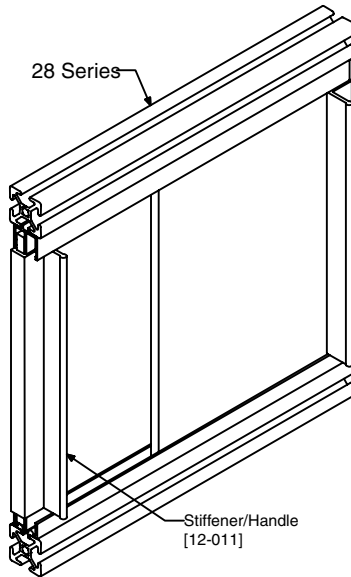


14-248

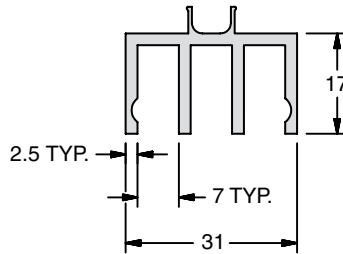


12-022

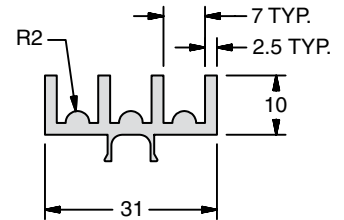
Sliding Door Guide Profile



For removable doors: B = A - 15 mm
For non-removable doors: B = A - 10 mm



12-012*



12-013*

Application

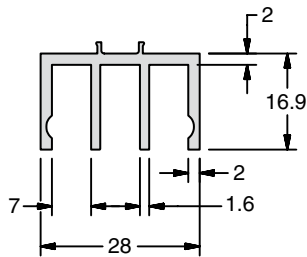
These profiles create light duty sliding panels for windows and access ports for safety guards, enclosures or partitions. Installation onto 40, 30 or 28 Series profiles do not require fasteners and will snap into the T-Slot. The lower guides are designed to reduce friction. The upper guides facilitate lift-out removal of the panel without disassembly.

Technical Data

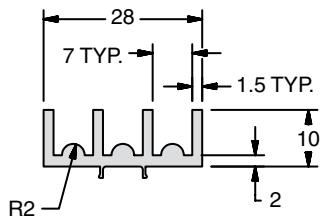
Aluminum, Clear Anodized
Three panel tracks
Panel width up to 6.4mm

Weight:

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



12-014



12-015

Ordering Information

Description	Max. Length	Part #
40 Series		
Profile Sliding Door Guide 40 Upper	3 meters	12-012
Profile Sliding Door Guide 40 Lower	3 meters	12-013
28/30 Series		
Profile Sliding Door Guide 30/28 Upper	3 meters	12-014
Profile Sliding Door Guide 30/28 Lower	3 meters	12-015
Cut to Length Service Number		19-001

* Does not install into 1.5" profile