1" Series

Part #	Description	Moment of Inertia		Section Modulus		Section [cm²]	Weight [kg/m]	Page
		I_x [cm⁴]	I_y [cm⁴]	W_x [cm³]	Wy [cm³]			
12-1010	Profile 1" x 1"	1.91	1.91	1.51	1.51	2.84	0.77	52
12-1020	Profile 2" x 1"	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 Detail

0.593"
0.095"
0.255"
0.319"
Ø0.202

Service

Ø0.219"
DRILL THRU
0.5" FROM END

TAP 1/4-20 X
0.625" DEEP

Servicing For Standard Fastener (Side)

Servicing For Standard Fastener (End)

Ø0.563" X
0.430" DEEP
0.5" FROM END

Servicing For Universal Fastener

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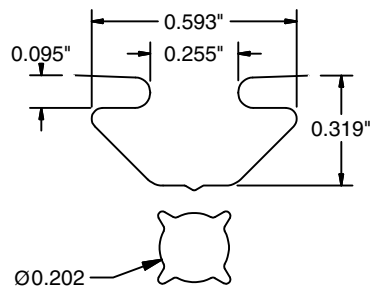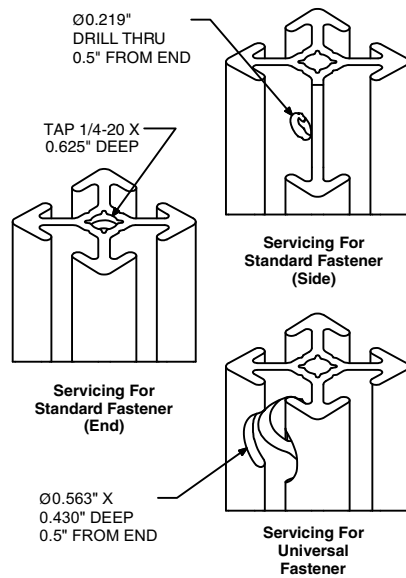
1" x 1", 2" x 1" and 2" x 2" Profiles

1.00"
1.00"

12-1010

1.00"
2.00"
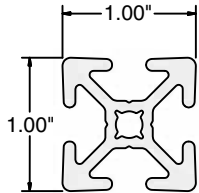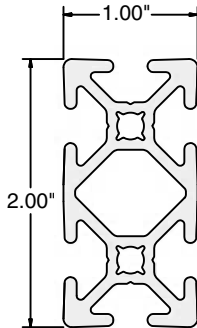
12-1020

2.00"
2.00"
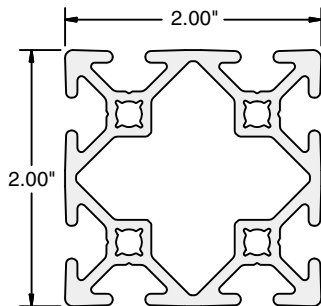
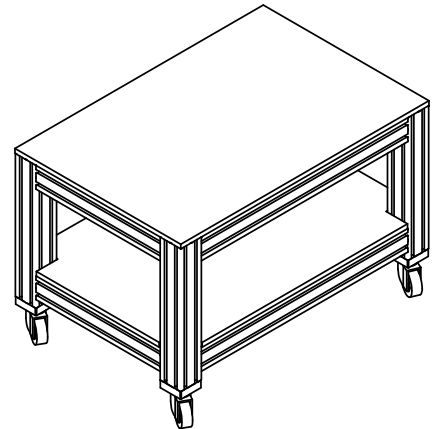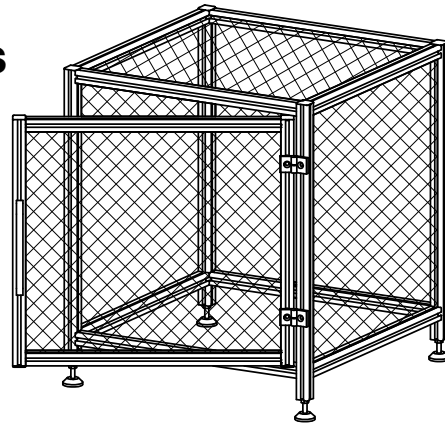**12-2020**

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 9 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	Unit	Part #
1" x 1" Profile	Cut off max. 240 in	12-1010
2" x 1" Profile	Cut off max. 240 in	12-1020
2" x 2" Profile	Cut off max. 240 in	12-2020
* Saw Cut Needed for Cut to length		19-001

Quick Reference for Mating Components

Fasteners
- 1" Standard Fastener 25-022
- 1" Universal Fastener 25-023

End Caps
- 1" x 1" (for 12-1010) 18-1010
- 2" x 1" (for 12-1020) 18-1020
- 2" x 2" (for 12-2020) 18-2020

Structural Accessories
- Levelers pg 156
- Casters pg 167
- Plates pg 102
- Gussets pg 104