



Materials & Finishes - Standard:

- **Pregalvanized (PG):** Conforms to ASTM A653 SS GR 33, G90.
- **Unistrut Defender (DF):** Conforms to ASTM A1046 SS GR 33
- **Hot Dip Galvanized (HG):** Steel conforms to ASTM A1011 SS GR 33, Finish conforms to ASTM A123
- **Perma-Green (GR):** Steel conforms to ASTM A1011 SS GR 33, E-Coat finish
- **Perma-Gold (ZD):** Steel conforms to ASTM A1011 SS GR 33, Finish conforms to ASTM B633, Type II SC3
- **Plain (PL):** Conforms to ASTM A1011 SS GR 33

Materials & Finishes - Special Metals:

- **Stainless Steel, Type 304 (SS):** ASTM A240, Type 304 *
- **Stainless Steel, Type 316 (ST):** ASTM A240, Type 316 *
- **Aluminum (EA):** ASTM B221, Type 6063-T6 (Extruded) *

* These materials have different physical properties and performance characteristics. Please [contact us](#) for design support.

Part No.	Length (ft)	Finish	Product Weight / Ft (lbs/ft)
A1000	10	PG	1.04
A1000	20	PG	1.04
A1000	10	HG	1.102
A1000	20	HG	1.102
A1000	20	GR	1.04
A1000	10	GR	1.04
A1000	10	PL	1.04
A1000	20	PL	1.04
A1000	10	SS	1.1
A1000	20	SS	1.1
A1000	10	EA	0.42
A1000	20	EA	0.42

Beam Loading - A1000

Span (in)	Max Allow. Uniform Load (lbs)	Deflection at Uniform Load (in)	Uniform Loading at Deflection			Lateral Bracing Reduction Factor
			Span/180 (lbs)	Span/240 (lbs)	Span/360 (lbs)	
18	960	0.04	960	960	960	-
24	720	0.07	720	720	660	0.95
36	480	0.16	480	440	300	0.86
48	360	0.29	330	250	170	0.78
60	290	0.45	210	160	110	0.72
72	240	0.65	150	110	70	0.67
84	210	0.90	110	80	50	0.63
96	180	1.16	80	60	40	0.59
108	160	1.46	70	50	30	0.55
120	140	1.75	50	40	30	0.52

Refer to the General Specifications for loading information.

Column Loading - A1000

Unbraced Height (in)	Allowable Load at Slot Face (lbs)	Max Column Load Applied at C.G.			
		K=0.65 (lbs)	K=0.80 (lbs)	K=1.0 (lbs)	K=1.2 (lbs)
18	1,960	5,900	5,430	4,800	4,210
24	1,840	5,210	4,590	3,850	3,220
36	1,500	3,940	3,220	2,480	2,010
48	1,220	2,950	2,300	1,790	1,460
60	1,020	2,260	1,790	1,400	1,130
72	880	1,840	1,460	1,130	910
84	780	1,550	1,230	940	KL/r>200
96	690	1,340	1,050	KL/r>200	KL/r>200
108	620	1,170	910	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.

Project:

Architect / Engineer:

Date: **Phone:**

Contractor:

Address:

Notes:

Approval Stamp: