



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)
P1001	20	PG	3.78
P1001	10	PG	3.78
P1001	10	DF	4.028
P1001	20	DF	4.028
P1001	20	HG	4.028
P1001	10	HG	4.028
P1001	20	GR	3.78
P1001	10	GR	3.78
P1001	20	PL	3.78
P1001	10	PL	3.78
P1001	10	ZD	3.78
P1001	20	ZD	3.78
P1001	10	SS	3.78
P1001	20	SS	3.78
P1001	10	ST	3.78
P1001	20	ST	3.78
P1001	10	EA	1.34
P1001	20	EA	1.34

Beam Loading - P1001						
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)	
24	* 3,500	0.02	* 3,500	* 3,500	* 3,500	1.00
36	3,190	0.07	3,190	3,190	3,190	1.00
48	2,390	0.13	2,390	2,390	2,390	1.00
60	1,910	0.20	1,910	1,910	1,620	0.97
72	1,600	0.28	1,600	1,600	1,130	0.93
84	1,370	0.39	1,370	1,240	830	0.89
96	1,200	0.51	1,200	950	630	0.85
108	1,060	0.64	1,000	750	500	0.81
120	960	0.79	810	610	410	0.78
144	800	1.14	560	420	280	0.70
168	680	1.53	410	310	210	0.63
192	600	2.02	320	240	160	0.56
216	530	2.54	250	190	130	0.49
240	480	3.16	200	150	100	0.44
Note	*Load limited by weld shear					

Refer to the General Specifications for loading information.

Column Loading - P1001					
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)
24	6,430	24,280	23,610	22,700	21,820
36	6,290	22,810	21,820	20,650	19,670
48	6,160	21,410	20,300	18,670	16,160
60	6,000	20,210	18,670	15,520	12,390
72	5,620	18,970	16,160	12,390	8,950
84	5,170	16,950	13,630	9,470	6,580
96	4,690	14,890	11,190	7,250	5,040
108	4,170	12,850	8,950	5,730	3,980
120	3,690	10,900	7,250	4,640	KL/r>200
144	2,930	7,630	5,040	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.

Project:

Architect / Engineer:

Date: **Phone:**

Contractor:

Address:

Notes:

Approval Stamp: