



**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

Part No.	Length (ft)	Finish	Product Weight / Ft (lbs/ft)
P1004A	20	PG	6.68
P1004A	10	PG	6.68
P1004A	10	HG	7.102
P1004A	20	HG	7.102
P1004A	10	GR	6.68
P1004A	20	GR	6.68
P1004A	10	PL	6.68
P1004A	20	PL	6.68

**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.

**Project:**

**Architect / Engineer:**

**Date:**  **Phone:**

**Contractor:**

**Address:**

**Notes:**

**Approval Stamp:**

Beam Loading - P1004A						
Span (in)	Max Allowable 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	* 9,100	0.01	* 9,100	* 9,100	* 9,100	1.00
36	* 9,100	0.05	* 9,100	* 9,100	* 9,100	1.00
48	7,000	0.08	7,000	7,000	7,000	0.94
60	5,600	0.13	5,600	5,600	5,600	0.89
72	4,660	0.19	4,660	4,660	4,660	0.83
84	4,000	0.26	4,000	4,000	3,630	0.78
96	3,500	0.34	3,500	3,500	2,780	0.72
108	3,110	0.43	3,110	3,110	2,200	0.67
120	2,800	0.52	2,800	2,670	1,780	0.62
144	2,330	0.75	2,330	1,850	1,230	0.52
168	2,000	1.03	1,810	1,360	910	0.44
192	1,750	1.34	1,390	1,040	690	0.38
216	1,550	1.69	1,100	820	550	0.34
240	1,400	2.10	890	670	440	0.31

Refer to the General Specifications for loading information.

Column Loading - P1004A					
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	11,420	36,800	33,890	30,440	27,600
36	10,600	30,840	27,600	24,400	22,160
48	9,860	26,400	23,560	21,060	19,470
60	9,160	23,370	21,060	19,160	18,020
72	8,610	21,310	19,470	18,020	17,140
84	8,170	19,890	18,410	17,260	15,240
96	7,790	18,890	17,670	16,760	11,670
108	7,460	18,160	17,140	13,280	9,220
120	7,150	17,590	16,760	10,750	7,470
144	5,660	16,840	11,670	7,470	KL/r>200
168	4,520	12,990	8,570	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.