



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)
P1001C41	20	PG	7.55
P1001C41	10	PG	7.55
P1001C41	10	HG	8.056
P1001C41	20	HG	8.056
P1001C41	20	GR	7.55
P1001C41	10	GR	7.55
P1001C41	20	PL	7.55
P1001C41	10	PL	7.55

Beam Loading - P1001C41						
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	* 7,040	0.02	* 7,040	* 7,040	* 7,040	1.00
36	6,380	0.07	6,380	6,380	6,380	1.00
48	4,790	0.13	4,790	4,790	4,790	1.00
60	3,830	0.20	3,830	3,830	3,240	1.00
72	3,190	0.28	3,190	3,190	2,250	0.98
84	2,740	0.39	2,740	2,480	1,660	0.95
96	2,390	0.50	2,390	1,900	1,270	0.93
108	2,130	0.64	2,000	1,500	1,000	0.90
120	1,910	0.78	1,620	1,220	810	0.87
144	1,600	1.14	1,130	840	560	0.82
168	1,370	1.55	830	620	410	0.77
192	1,200	2.02	630	480	320	0.72
216	1,060	2.54	500	380	250	0.67
240	960	3.16	410	300	200	0.62
Note	*Load limited by weld shear					

Refer to the General Specifications for loading information.

Column Loading - P1001C41					
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	12,690	46,920	44,980	42,360	39,890
36	12,250	42,680	39,890	36,660	34,050
48	11,820	38,740	35,720	32,640	30,430
60	11,470	35,500	32,640	29,980	28,220
72	11,180	32,970	30,430	28,220	26,820
84	10,900	31,040	28,840	27,010	24,870
96	10,580	29,570	27,680	26,170	19,840
108	10,310	28,440	26,820	22,310	15,670
120	10,070	27,560	26,170	18,280	12,700
144	8,740	26,320	19,840	12,700	8,820
168	7,360	21,890	14,570	9,330	KL/r>200

Refer to the General Specifications for loading information.

Project:

Architect / Engineer:

Date: **Phone:**

Contractor:

Address:

Notes:

Approval Stamp: