



Materials & Finishes - Standard:

- **Pregalvanized (PG):** Conforms to ASTM A653 SS GR 33, G90.
- **Power-Strut 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)
PS 500	20	PG	0.98
PS 500	10	PG	0.98
PS 500	10	DF	1.028
PS 500	20	DF	1.028
PS 500	20	HG	1.028
PS 500	10	HG	1.028
PS 500	20	GR	0.98
PS 500	10	GR	0.98
PS 500	10	PL	0.98
PS 500	20	PL	0.98
PS 500	10	ZD	0.98
PS 500	20	ZD	0.98
PS 500	20	SS	0.98
PS 500	10	SS	0.98

Beam Loading - PS 500						
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	450	0.11	450	420	280	1.00
36	300	0.24	250	190	130	0.98
48	230	0.44	140	110	70	0.94
60	180	0.67	90	70	50	0.91
72	150	0.96	60	50	30	0.89
84	130	1.32	50	30	20	0.86
96	110	1.67	40	30	20	0.84
108	100	2.16	30	20	10	0.82
120	90	2.67	20	20	10	0.80
144	80	4.09	20	NR	NR	0.76
168	60	4.88	NR	NR	NR	0.73
192	60	7.28	NR	NR	NR	0.69
216	50	8.64	NR	NR	NR	0.65
240	50	11.85	NR	NR	NR	0.61
Note	NR - Not Recommended					

Refer to the General Specifications for loading information.

Column Loading - PS 500					
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	1,840	5,610	5,210	4,570	3,850
36	1,640	4,660	3,850	2,800	1,960
48	1,310	3,490	2,480	1,590	1,100
60	1,000	2,400	1,590	KL/r>200	KL/r>200
72	770	1,670	1,100	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.

Project:

Architect / Engineer:

Date: **Phone:**

Contractor:

Address:

Notes:

Approval Stamp: