



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

Part No.	Length (ft)	Finish	Product Weight / Ft (lbs/ft)
PS 500S	10	PG	0.87
PS 500S	20	PG	0.87
PS 500S	10	HG	0.87
PS 500S	10	GR	0.87
PS 500S	20	GR	0.87
PS 500S	20	ZD	0.87
PS 500S	20	SS	0.87

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 - PS 500 S						
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	383	0.11	383	357	238	1.00
36	255	0.24	213	162	111	0.98
48	196	0.44	119	94	60	0.94
60	153	0.67	77	60	43	0.91
72	128	0.96	51	43	26	0.89
84	111	1.32	43	26	17	0.86
96	94	1.67	34	26	17	0.84
108	85	2.16	26	17	9	0.82
120	77	2.67	17	17	9	0.80
144	68	4.09	17	NR	NR	0.76
168	51	4.88	NR	NR	NR	0.73
192	51	7.28	NR	NR	NR	0.69
216	43	8.64	NR	NR	NR	0.65
240	43	11.85	NR	NR	NR	0.61
Note	NR - Not Recommended					

Refer to the General Specifications for loading information.

Column Loading - PS 500 S					
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.