



**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 500H	20	PG	0.87
PS 500H	10	PG	0.87
PS 500H	20	HG	0.922
PS 500H	10	HG	0.922
PS 500H	20	GR	0.87
PS 500H	10	GR	0.87
PS 500H	10	PL	0.87
PS 500H	20	PL	0.87
PS 500H	10	ZD	0.87
PS 500H	20	ZD	0.87
PS 500H	20	SS	0.87
PS 500H	10	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 H						
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	405	0.11	405	378	252	1.00
36	270	0.24	225	171	117	0.98
48	207	0.44	126	99	63	0.94
60	162	0.67	81	63	45	0.91
72	135	0.96	54	45	27	0.89
84	117	1.32	45	27	18	0.86
96	99	1.67	36	27	18	0.84
108	90	2.16	27	18	9	0.82
120	81	2.67	18	18	9	0.80
144	72	4.09	18	NR	NR	0.76
168	54	4.88	NR	NR	NR	0.73
192	54	7.28	NR	NR	NR	0.69
216	45	8.64	NR	NR	NR	0.65
240	45	11.85	NR	NR	NR	0.61
Note	NR - Not Recommended					

Refer to the General Specifications for loading information.

Column Loading - PS 500 H					
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.