



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 E H	20	PG	0.87
PS 500 E H	10	PG	0.87
PS 500 E H	10	DF	0.922
PS 500 E H	20	DF	0.922
PS 500 E H	20	HG	0.922
PS 500 E H	10	HG	0.922
PS 500 E H	20	GR	0.87
PS 500 E H	10	GR	0.87
PS 500 E H	20	PL	0.87
PS 500 E H	10	PL	0.87
PS 500 E H	20	ZD	0.87
PS 500 E H	10	ZD	0.87
PS 500 E H	10	SS	0.97
PS 500 E H	20	SS	0.97

Beam Loading - PS 500 EH						
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 EH					
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: