



**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)
PS100 E H	10	PG	3
PS100 E H	20	PG	3
PS100 E H	10	DF	3.18
PS100 E H	20	DF	3.18
PS100 E H	20	HG	3.18
PS100 E H	10	HG	3.18
PS100 E H	20	GR	3
PS100 E H	10	GR	3
PS100 E H	10	PL	3
PS100 E H	20	PL	3
PS100 E H	10	ZD	3
PS100 E H	20	ZD	3

Beam Loading - PS100 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	4,471	0.03	4,471	4,471	4,471	0.98
36	2,975	0.07	2,975	2,975	2,975	0.85
48	2,236	0.12	2,236	2,236	2,236	0.70
60	1,785	0.18	1,785	1,785	1,632	0.55
72	1,488	0.26	1,488	1,488	1,131	0.44
84	1,275	0.36	1,275	1,250	833	0.38
96	1,114	0.47	1,114	952	638	0.33
108	995	0.59	995	757	502	0.30
120	893	0.73	816	612	408	0.28
144	748	1.06	570	425	281	0.24
168	638	1.43	417	315	204	0.22
192	561	1.88	315	238	162	0.21
216	493	2.35	255	187	128	0.19
240	451	2.95	204	153	102	0.18
Note	Bearing load may govern capacity.					

Refer to the General Specifications for loading information.

Column Loading - PS100 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	5,650	16,870	15,180	12,850	10,600
36	4,690	13,140	10,600	7,650	5,660
48	3,560	9,550	6,860	4,790	3,660
60	2,730	6,680	4,790	3,450	2,710
72	2,160	4,980	3,660	2,710	2,170
84	1,760	3,950	2,960	2,240	1,820
96	1,500	3,270	2,500	1,930	1,580
108	1,310	2,800	2,170	1,690	1,390
120	1,170	2,450	1,930	1,510	KL/r>200
144	980	1,980	1,580	KL/r>200	KL/r>200
168	850	1,670	1,340	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.

**Project:**

**Architect / Engineer:**

**Date:**  **Phone:**

**Contractor:**

**Address:**

**Notes:**

**Approval Stamp:**