PS 100

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 100	10	PG	3.05
PS 100	20	PG	3.05
PS 100	20	DF	3.233
PS 100	10	DF	3.233
PS 100	10	HG	3.233
PS 100	20	HG	3.233
PS 100	10	GR	3.05
PS 100	20	GR	3.05
PS 100	10	PL	3.05
PS 100	20	PL	3.05
PS 100	20	ZD	3.05
PS 100	10	ZD	3.05

Beam Loading - PS 100

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	5,260	0.03	5,260	5,260	5,260	0.98
36	3,500	0.07	3,500	3,500	3,500	0.85
48	2,630	0.12	2,630	2,630	2,630	0.70
60	2,100	0.18	2,100	2,100	1,920	0.55
72	1,750	0.26	1,750	1,750	1,330	0.44
84	1,500	0.36	1,500	1,470	980	0.38
96	1,310	0.47	1,310	1,120	750	0.33
108	1,170	0.59	1,170	890	590	0.30
120	1,050	0.73	960	720	480	0.28
144	880	1.06	670	500	330	0.24
168	750	1.43	490	370	240	0.22
192	660	1.88	370	280	190	0.21
216	580	2.35	300	220	150	0.19
240	530	2.95	240	180	120	0.18
Note	Bearing load may govern capacity.					

Refer to the General Specifications for loading information.

Column Loading - PS 100

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: