PS 100 2T3

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 2 T3	20	PG	6.1
PS 100 2 T3	10	PG	6.1
PS 100 2 T3	10	HG	6.466
PS 100 2 T3	20	HG	6.466
PS 100 2 T3	10	GR	6.1
PS 100 2 T3	20	GR	6.1
PS 100 2 T3	10	PL	6.1
PS 100 2 T3	20	PL	6.1

Beam Loading - PS 100 2T3

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	* 6,890	0.01	* 6,890	* 6,890	* 6,890	1.00
36	* 6,890	0.02	* 6,890	* 6,890	* 6,890	1.00
48	* 6,890	0.05	* 6,890	* 6,890	* 6,890	0.97
60	6,420	0.10	6,420	6,420	6,420	0.90
72	5,350	0.14	5,350	5,350	5,350	0.83
84	4,590	0.19	4,590	4,590	4,590	0.76
96	4,020	0.25	4,020	4,020	4,020	0.68
108	3,570	0.32	3,570	3,570	3,360	0.61
120	3,210	0.39	3,210	3,210	2,720	0.54
144	2,680	0.57	2,680	2,680	1,890	0.43
168	2,290	0.77	2,290	2,080	1,390	0.35
192	2,010	1.01	2,010	1,590	1,060	0.30
216	1,780	1.27	1,680	1,260	840	0.27
240	1,610	1.58	1,360	1,020	680	0.24
Note	Bearing load may govern capacity.					
Note	*Load limited by weld shear					

Refer to the General Specifications for loading information.

Column Loading - PS 100 2T3

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	10,670	39,230	38,030	36,210	34,240
36	10,350	36,450	34,240	31,200	28,260
48	9,940	33,220	30,200	26,430	23,190
60	9,290	29,950	26,430	22,470	19,380
72	8,560	26,880	23,190	19,380	16,450
84	7,860	24,140	20,520	17,040	12,090
96	7,220	21,790	18,370	13,330	9,250
108	6,600	19,790	16,450	10,530	7,310
120	5,760	18,130	13,330	8,530	KL/r>200
144	4,390	14,020	9,250	KL/r>200	KL/r>200
168	3,420	10,300	6,800	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.

Project:

Architect / Engineer:

Date: **Phone:**

Contractor:

Address:

Notes:

Approval Stamp: