PS 150

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 150	10	PG	2.47
PS 150	20	PG	2.47
PS 150	20	HG	2.618
PS 150	10	HG	2.618
PS 150	20	GR	2.47
PS 150	10	GR	2.47
PS 150	10	PL	2.47
PS 150	20	PL	2.47
PS 150	20	ZD	2.47
PS 150	10	ZD	2.47
PS 150	10	EA	0.97
PS 150	20	EA	0.97

Beam Loading - PS 150

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	3,270	0.04	3,270	3,270	3,270	0.99
36	2,180	0.09	2,180	2,180	2,180	0.89
48	1,640	0.15	1,640	1,640	1,420	0.77
60	1,310	0.24	1,310	1,310	910	0.67
72	1,090	0.34	1,090	950	630	0.58
84	940	0.47	930	700	470	0.51
96	820	0.61	710	530	360	0.46
108	730	0.78	560	420	280	0.42
120	650	0.95	460	340	230	0.40
144	550	1.39	320	240	160	0.36
168	470	1.89	230	170	120	0.32
192	410	2.46	180	130	90	0.30
216	360	3.07	140	110	70	0.28
240	330	3.86	110	90	60	0.26

Refer to the General Specifications for loading information.

Column Loading - PS 150

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	4,640	13,840	12,570	10,840	9,190
36	3,970	11,050	9,190	7,030	5,370
48	3,180	8,420	6,390	4,620	3,630
60	2,550	6,250	4,620	3,450	2,780
72	2,120	4,790	3,630	2,780	2,260
84	1,810	3,890	3,010	2,330	1,910
96	1,580	3,290	2,580	2,020	1,650
108	1,400	2,860	2,260	1,770	1,440
120	1,270	2,530	2,020	1,580	KL/r>200
144	1,060	2,070	1,650	KL/r>200	KL/r>200
168	920	1,750	1,380	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.

Project:

Architect / Engineer:

Date: **Phone:**

Contractor:

Address:

Notes:

Approval Stamp: