



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

Part No.	Length (ft)	Finish	Product Weight / Ft (lbs/ft)
PS 300H	20	PG	1.65
PS 300H	10	PG	1.65
PS 300H	10	HG	1.749
PS 300H	20	HG	1.749
PS 300H	20	GR	1.65
PS 300H	10	GR	1.65
PS 300H	10	PL	1.65
PS 300H	20	PL	1.65
PS 300H		SS	1.65

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.

Project:

Architect / Engineer:

Date: **Phone:**

Contractor:

Address:

Notes:

Approval Stamp:

Beam Loading - PS 300 H						
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	1,152	0.07	1,152	1,152	1,152	1.00
36	765	0.15	765	765	522	0.96
48	576	0.26	576	441	297	0.91
60	459	0.41	378	279	189	0.88
72	387	0.59	261	198	135	0.84
84	333	0.81	189	144	99	0.82
96	288	1.05	144	108	72	0.79
108	252	1.30	117	90	54	0.77
120	234	1.66	90	72	45	0.75
144	189	2.32	63	45	36	0.70
168	162	3.15	45	36	27	0.66
192	144	4.18	36	27	NR	0.62
216	126	5.21	NR	NR	NR	0.58
240	117	6.64	NR	NR	NR	0.54
Note	NR - Not Recommended					

Refer to the General Specifications for loading information.

Column Loading - PS 300 H					
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	2,400	6,650	6,080	5,280	4,470
36	2,050	5,380	4,470	3,370	2,500
48	1,600	4,090	3,040	2,100	1,590
60	1,230	2,960	2,100	1,500	1,160
72	970	2,190	1,590	1,160	910
84	790	1,720	1,270	950	760
96	660	1,410	1,060	800	650
108	570	1,200	910	700	KL/r>200
120	510	1,040	800	620	KL/r>200
144	420	830	650	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.