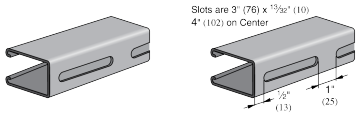
POWER-STRUT®

PS 150 S



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 150S	10	PG	2.42
PS 150S	20	PG	2.42
PS 150S	20	HG	2.512
PS 150S	10	HG	2.512
PS 150S	10	GR	2.42
PS 150S	20	GR	2.42
PS 150S	20	PL	2.42
PS 150S	10	PL	2.42
PS 150S	20	ZD	2.42
PS 150S	10	ZD	2.42

Project:

Architect / Engineer:

Date: **Phone:**

Contractor:

Address:

Notes:

Approval Stamp:

Beam Loading - PS 150 S

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	2,780	0.04	2,780	2,780	2,780	0.99
36	1,853	0.09	1,853	1,853	1,853	0.89
48	1,394	0.15	1,394	1,394	1,207	0.77
60	1,114	0.24	1,114	1,114	774	0.67
72	927	0.34	927	808	536	0.58
84	799	0.47	791	595	400	0.51
96	697	0.61	604	451	306	0.46
108	621	0.78	476	357	238	0.42
120	553	0.95	391	289	196	0.40
144	468	1.39	272	204	136	0.36
168	400	1.89	196	145	102	0.32
192	349	2.46	153	111	77	0.30
216	306	3.07	119	94	60	0.28
240	281	3.86	94	77	51	0.26

Refer to the General Specifications for loading information.

Column Loading - PS 150 S

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.