



**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 210 S	20	PG	1.36
PS 210 S	10	PG	1.36
PS 210 S	10	HG	1.367
PS 210 S	20	HG	1.367
PS 210 S	20	GR	1.36
PS 210 S	10	GR	1.36
PS 210 S	10	PL	1.36
PS 210 S	20	PL	1.36
PS 210 S	20	ZD	1.36
PS 210 S	10	ZD	1.36

Beam Loading - PS 210 S						
Span (in)	Max Allowable 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	1,148	0.06	1,148	1,148	1,148	1.00
36	765	0.13	765	765	595	0.89
48	578	0.23	578	502	340	0.78
60	459	0.36	434	323	213	0.68
72	383	0.51	298	221	153	0.59
84	332	0.7	221	162	111	0.52
96	289	0.92	170	128	85	0.47
108	255	1.15	136	102	68	0.43
120	230	1.42	111	77	51	0.40
144	196	2.09	77	60	34	0.36
168	162	2.75	51	43	26	0.32
192	145	3.67	43	34	NR	0.30
216	128	4.61	34	26	NR	0.28
240	119	5.9	26	NR	NR	0.26
Note	NR - Not Recommended					

Refer to the General Specifications for loading information.

Column Loading - PS 210 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	2,800	8,040	7,330	6,360	5,430
36	2,410	6,480	5,430	4,190	3,210
48	1,940	4,990	3,830	2,760	2,160
60	1,550	3,740	2,760	2,050	1,640
72	1,290	2,860	2,160	1,640	1,320
84	1,100	2,310	1,780	1,370	1,110
96	950	1,950	1,520	1,180	950
108	840	1,690	1,320	1,030	KL/r>200
120	760	1,490	1,180	KL/r>200	KL/r>200
144	630	1,210	950	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.

**Project:**

**Architect / Engineer:**

**Date:**  **Phone:**

**Contractor:**

**Address:**

**Notes:**

**Approval Stamp:**