



Materials & Finishes - Standard:

- **Pregalvanized (PG):** Conforms to ASTM A653 SS GR 33, G90.
- **Unistrut 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)
P3001	10	PG	3.4
P3001	20	PG	3.4
P3001	20	HG	3.604
P3001	10	HG	3.604
P3001	20	GR	3.4
P3001	10	GR	3.4
P3001	10	PL	3.4
P3001	20	PL	3.4
P3001	20	ZD	3.4
P3001	10	ZD	3.4

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 - P3001						
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	*2,960	0.03	*2,960	*2,960	*2,960	1.00
36	2,400	0.08	2,400	2,400	2,400	1.00
48	1,800	0.15	1,800	1,800	1,610	1.00
60	1,440	0.23	1,440	1,440	1,030	0.98
72	1,200	0.33	1,200	1,080	720	0.95
84	1,030	0.46	1,030	790	530	0.92
96	900	0.59	810	610	400	0.88
108	800	0.75	640	480	320	0.85
120	720	0.93	520	390	260	0.82
144	600	1.34	360	270	180	0.76
168	510	1.81	260	200	130	0.70
192	450	2.38	200	150	100	0.64
216	400	3.01	160	120	80	0.58
240	360	3.72	130	100	NR	0.52
Note	NR - Not Recommended					
Note	*Load limited by weld shear					

Refer to the General Specifications for loading information.

Column Loading - P3001					
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	5,740	21,780	21,200	20,430	19,720
36	5,620	20,520	19,720	18,830	17,680
48	5,520	19,400	18,570	16,570	14,260
60	5,330	18,510	16,570	13,670	10,810
72	5,030	16,850	14,260	10,810	7,730
84	4,630	14,990	11,930	8,180	5,680
96	4,190	13,090	9,720	6,260	4,350
108	3,720	11,230	7,730	4,950	KL/r>200
120	3,300	9,460	6,260	4,010	KL/r>200
144	2,620	6,590	4,350	KL/r>200	KL/r>200

Refer to the General Specifications for loading information.