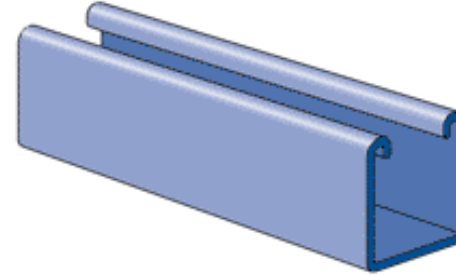
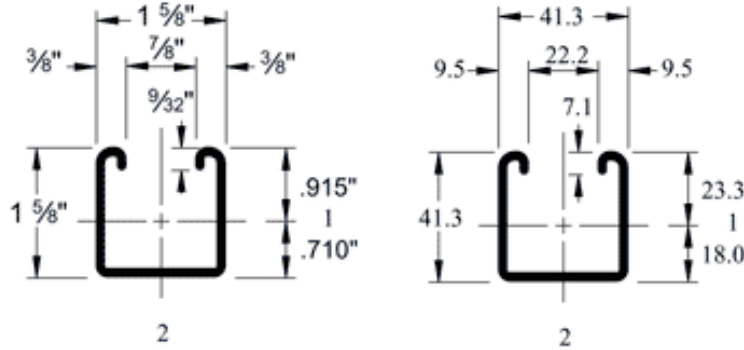


## P1000 - 1-5/8" x 1-5/8", 12 Gage Channel, Solid



### Column Loading - P1000

### Beam Loading - P1000

Unbraced Height (in)	Allowable Load at Slot Face (lbs)	Max Column Load Applied at C.G.				Span (in)	Max Allowable Uniform Load (lbs)	Defl at Uniform load (in)	Uniform Loading at Deflection			Lateral Bracing Reduction Factor
		K=0.65 (lbs)	K=0.65 (lbs)	K=0.65 (lbs)	K=0.65 (lbs)				Span /180 (lbs)	Span /240 (lbs)	Span /360 (lbs)	
24	3,550	10,740	9,890	8,770	7,740	24	1,690	0.06	1,690	1,690	1,690	1.00
36	3,190	8,910	7,740	6,390	5,310	36	1,130	0.13	1,130	1,130	900	0.94
48	2,770	7,260	6,010	4,690	3,800	48	850	0.22	850	760	500	0.88
60	2,380	5,910	4,690	3,630	2,960	60	680	0.35	650	480	320	0.82
72	2,080	4,840	3,800	2,960	2,400	72	560	0.50	450	340	220	0.78
84	1,860	4,040	3,200	2,480	1,980	84	480	0.68	330	250	160	0.75
96	1,670	3,480	2,750	2,110	1,660	96	420	0.89	250	190	130	0.71
108	1,510	3,050	2,400	1,810	*	108	380	1.14	200	150	100	0.69
120	1,380	2,700	2,110	*	*	120	340	1.40	160	120	80	0.66
144	1,150	2,180	1,660	*	*	144	280	2.00	110	80	60	0.61
*KL/r > 200						168	240	2.72	80	60	40	0.55
						192	210	3.55	60	50	-	0.51
						216	190	4.58	50	40	-	0.47
						240	170	5.62	40	-	-	0.44

[Channel Selection Chart](#)[Related Channel Nuts](#)**Finishes:** [GR](#) [PG](#) [HG](#) [ZD](#) [PL](#) [EA](#) [SS](#) [ST](#)**Weight:**190 Lbs/100 Ft  
(283 Kg/100 m)[Additional Specifications](#)**Elements of Section**Area of Section - 0.556 in<sup>2</sup> (3.6 cm<sup>2</sup>)

## Axis 1-1

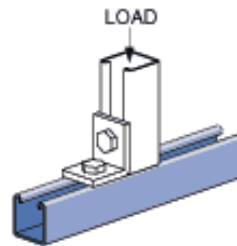
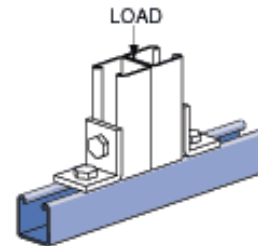
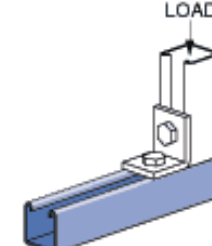
- Moment of Inertia (I) - 0.185 in<sup>4</sup> (7.7 cm<sup>4</sup>)
- Section Modulus (S) - 0.202 in<sup>3</sup> (3.3 cm<sup>3</sup>)
- Radius of Gyration (r) - 0.577 in (1.5 cm)

## Axis 2-2

- Moment of Inertia (I) - 0.236 in<sup>4</sup> (9.8 cm<sup>4</sup>)
- Section Modulus (S) - 0.290 in<sup>3</sup> (4.8 cm<sup>3</sup>)
- Radius of Gyration (r) - 0.651 in (1.7 cm)

**Notes:**

1. Above loads include the weight of the member. This weight must be deducted to arrive at the net allowable load the beam will support.
2. Long span beams should be supported so as to prevent rotation and twist.
3. Allowable uniformly distributed loads are listed for various simple spans, that is, a beam on two supports. If load is concentrated at the center of the span, multiply load from the table by 0.5 and corresponding deflection by 0.8.
4. The lateral bracing factor should be multiplied by the load to determine the load retained based on the distance between lateral braces.

**Bearing Load on Channel:**Max Load  
5,000 Lbs  
2,268 KgMax Load  
8,000 Lbs  
3,629 KgMax Load  
3,500 Lbs  
1,588 Kg