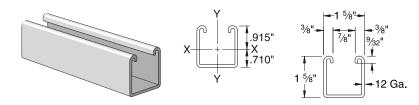


PS 200 – Steel Channel (15/8" x 15/8" x 12 ga.)



ELEMENTS OF SECTION - PS 200

			X-X Axis		Y-Y Axis		
Weight (lbs./100 ft.)	Area of Section (Inch²)	Moment of Inertia (Inch⁴)	Section Modulus (Inch³)	Radius of Gyration (Inch)	Moment of Inertia (Inch ⁴)	Section Modulus (Inch³)	Radius of Gyration (Inch)
189	0.555	0.185	0.202	0.577	0.236	0.290	0.651

MATERIALS:

Plain and painted green channels are formed from structural quality strip steel which conforms to the requirements of ASTM A-1011 SS Grade 33. Pre-galvanized channel conforms to the requirements of ASTM A-653 Grade 33.

STANDARD LENGTHS:

Stock lengths are 10 and 20 feet. Special lengths are available upon request.

STANDARD FINISHES:

Standard Power-Strut channel is available in plain, painted green, zinc dichromate or pre-galvanized finishes.

ORDERING INFORMATION:

When ordering, add the length or size and finish to the part number. AL(alum.), EG(elec. galv.), GR (green), HG(Hot-Dip Galv.), PG(PreGalv.), ZD(Yellow Dichromate)



PS 200 & PS 200 2T3 - Load Data

BEAM LOADING - PS 200

	Max		Uniform Loading at Deflection			
Span (in) Allowable Uniform Load (lb)		Defl. at Uniform Load (in)	Span/180 (lbs)	Span/240 (lbs)	Span/360 (lbs)	
24	1,690	0.06	1,690	1,690	1,690	
36	1,130	0.13	1,130	1,130	900	
48	850	0.22	850	760	500	
60	680	0.35	650	480	320	
72	560	0.50	450	340	220	
84	480	0.68	330	250	160	
96	420	0.89	250	190	130	
108	380	1.14	200	150	100	
120	340	1.40	160	120	80	
144	280	2.00	110	80	60	
168	240	2.72	80	60	40	
192	210	3.55	60	50	NR	
216	190	4.58	50	40	NR	
240	170	5.62	40	NR	NR	

^{*} Bearing load may govern capacity.

NR - Not Recommended

This load table is based on a solid channel section.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

PS-200-EH 15% PS-200-S 15% PS-200-H 10% PS-200-K06 5%

PS-200-SB 30%

For Extruded Aluminum Channels, reduce beam load values 38%.

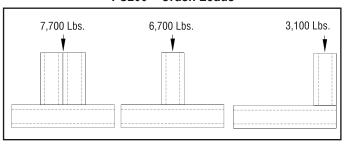
COLUMN LOADING - PS 200

	Max.	Maximum Column Load Applied at C.G.				
Unbraced Height (in)	Allowable Load at Slot Face (lbs)	K = 0.65 (lbs)	K = 0.80 (lbs)	K =1.0 (lbs)	K = 1.2 (lbs)	
24	3,550	10,740	9,890	8,770	7,740	
36	3,190	8,910	7,740	6,390	5,310	
48	2,770	7,260	6,010	4,690	3,800	
60	2,380	5,910	4,690	3,630	2,960	
72	2,080	4,840	3,800	2,960	2,400	
84	1,860	4,040	3,200	2,480	1,980	
96	1,670	3,480	2,750	2,110	1,660	
108	1,510	3,050	2,400	1,810	**	
120	1,380	2,700	2,110	**	**	
144	1,150	2,180	1,660	**	**	

^{**} KL/>20

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS200 - Crush Loads



Resistance to Slip -1,500 lbs. per bolt when 1/2" PS NS channel nuts are used. Pull Out Strength -2,000 lbs. per bolt when 1/2" PS NS channel nuts are used.

Type of Load	Safe Factor to Yield Strength	Safety Factor to Ultimate Strength		
Beam Loads	1.67	2.0		
Column Loads	1.80	2.2		