

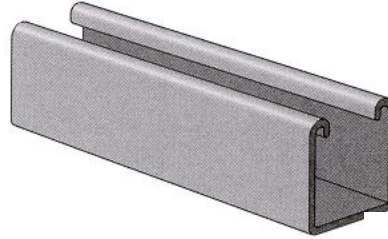


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# PS 200 - STRUT CHANNEL

## (1 5/8 x 1 5/8 x 12 GA.)

### 304 STAINLESS STEEL

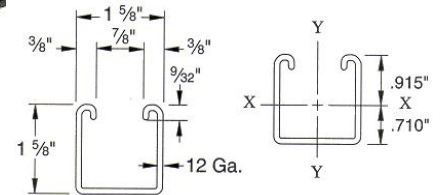


**FINISH:**  PLAIN  PRE-GALVANIZED  PAINTED GREEN  PVC COATED  
 (BLACK POLY VINYL CHLORIDE RESIN COATED TO A MAX THICKNESS OF 20 MILS)  HOT DIPPED GALVANIZED

**STOCK LENGTH:** 10' AND 20', OTHER LENGTHS ON REQUEST.

**NOTES:** COLUMN LOADS ARE FOR ALLOWABLE AXIAL LOADS AND MUST BE REDUCED FOR ECCENTRIC LOADING. FOR CONCENTRATED LOAD AT CENTER OF SPAN, DIVIDE UNIFORM LOAD BY 2 AND MULTIPLY CORRESPONDING DEFLECTION BY 0.8. THE TABLE BELOW IS BASED ON A SOLID CHANNEL SECTION.

**STAINLESS STEEL (SS)** - MATERIAL IN ACCORDANCE WITH ASTM A 240 (TYPE 304)



WEIGHT (IBS./100 FT.)	AREA OF SECTION (INCH <sup>2</sup> )	X-X AXIS			Y-Y AXIS		
		MOMENT OF INERTIA (INCH <sup>4</sup> )	SECTION MODULUS (INCH <sup>3</sup> )	RADIUS OF GYRATION (INCH)	MOMENT OF INERTIA (INCH <sup>4</sup> )	SECTION MODULUS (INCH <sup>3</sup> )	RADIUS OF GYRATION (INCH)
176	0.519	0.176	0.192	0.581	0.222	0.273	0.654

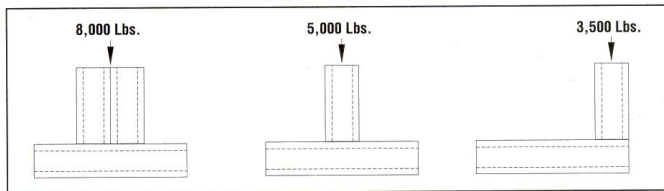
**MODULUS OF ELASTICITY: 29,000,000 PSI**

SPAN, OR COLUMN IN	MAX. LOAD OF COLUMN LOADED AT C.G. (K=1.0) LBS	STATIC BEAM LOAD (X-X AXIS)			
		TOTAL UNIFORM LOAD @25,000 PSI LBS	DEFLECTION @25,000 PSI IN	TOTAL UNIFORM LOAD @ 1/240 SPAN DEFLECTION LBS	TOTAL UNIFORM LOAD @ 1/360 SPAN DEFLECTION LBS
12	10,580	3230	0.01	-	-
18	9,720	2150	0.03	-	-
24	8,670	1610	0.06	-	-
30	7,530	1290	0.09	-	1,230
36	6,360	1080	0.13	-	850
42	5,240	920	0.17	-	630
48	4,420	810	0.22	720	480
54	3,830	720	0.28	570	380
60	3,390	650	0.35	460	310
66	3,040	590	0.42	380	250
72	2,760	540	0.50	320	210
84	2,310	460	0.69	230	160
96	1,980	400	0.90	180	120
108	1,710	360	1.14	140	90
120	-	320	1.40	120	80

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%

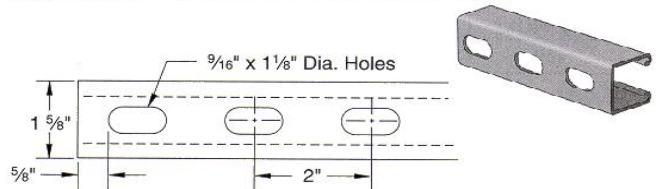
**PS 200 - Crush Loads**



**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.

**PS 200 EH - Channel with Elongated Holes**



Weight: 185 lbs./100 ft.

### SUBMITTAL INFORMATION

CUSTOMER:		APPROVAL STAMP
PROJECT NAME:		
PROJECT NUMBER:	SECTION:	
PARAGRAPH:	OTHER:	

REV: A

2008