

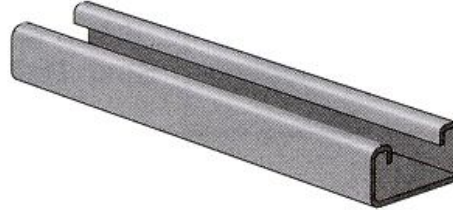


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 TEL (860) 289-0285 FAX (860) 282-1487
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PS 500 - STRUT CHANNEL

STAINLESS STEEL

(1 5/8" x 13/16" x 14 GA.)



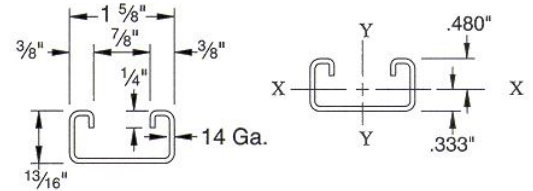
MATERIAL: STAINLESS STEEL - TYPE 304 OR TYPE 316, HEAT RESISTING CHROMIUM AND CHROMIUM-NICKEL STAINLESS STEEL.

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 OR TYPE 316).

WEIGHT (IBS./100 FT.)	AREA OF SECTION	X-X AXIS			Y-Y AXIS		
		MOMENT OF INER- TIA (INCH ⁴)	SECTION MODULUS (INCH ³)	RADIUS OF GYRATION (INCH)	MOMENT OF INER- TIA (INCH ⁴)	SECTION MODULUS (INCH ³)	RADIUS OF GYRATION (INCH)
98	0.287	0.025	0.053	0.298	0.106	0.131	0.609

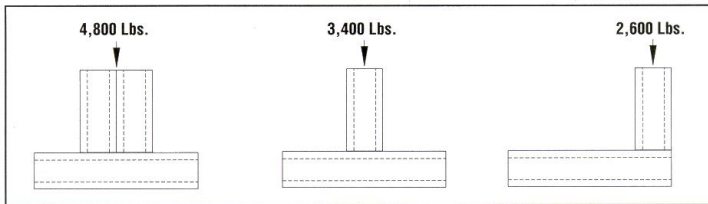


MODULUS OF ELASTICITY: 29,000,000 PSI

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	5,860	890	0.03	-	-
18	5,450	590	0.06	-	490
24	4,810	440	0.11	410	270
30	3,980	360	0.17	260	170
36	2,980	300	0.24	180	120
42	2,190	250	0.33	130	90
48	1,680	220	0.43	100	70
54	1,330	200	0.55	80	50
60	-	180	0.68	70	40
66	-	160	0.82	50	40
72	-	150	0.98	50	30
84	-	130	1.33	30	20
96	-	110	1.74	30	20
108	-	100	2.20	20	10
120	-	90	2.71	20	10

FOR PIERCED BEAM CHANNELS, REDUCE BEAM LOAD VALUES AS FOLLOWS:	
PS-500-EH	15%
PS-500-S	15%
PS-500-H	10%

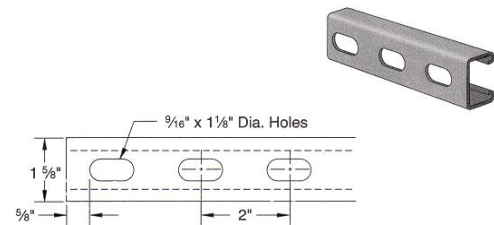
PS 500 - Crush Loads



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

Pull Out Strength - 1,400 lbs. per bolt when 1/2" PS NS channel nuts are used.

PS 500 EH - Channel with Elongated Holes



Weight: 87 lbs./100 ft.

SUBMITTAL INFORMATION

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