

FS-400 • 1" CHANNEL • 12 Gauge

SECTIO	ON PROPE	RTIES		X-X AXIS		Y-Y AXIS			
CHNL			Ix Sx		Rx Iy		Sy	Ry	
P/N	LBS.	SQ. IN.	in ⁴	in ³	in	in ⁴	in ³	in	
FS-400	1.43	.421	.052	.089	.350	.159	.195	.613	
FS-401	2.86	.843	.250	.250	.545	.317	.390	.613	
			I = Mo	ment of Inertia	t of Inertia S = Section Modulus R = Radius of G			f Gyration	
X _承 − 0.420'	X -		- 15/8" Y ! ! !		2"				

FS-400

FS-401

CHANNEL FINISH:

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• PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR) • HOT-DIPPED GALVANIZED (HD) • ALUMINUM (AL)

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STANDARD LENGTH: 20 FT. • 10 FT.

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CHNL		ALLOWABLE BEAM LOADS — Span In Inches												
P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"		
FS-400	Stress	750	600	500	430	370	300	250	210	190	170	150		
	1/240	***	560	390	280	220	140	100	70	50	40	35		
FS-401	Stress	1,540*	1,540*	1,390	1,190	1,040	830	695	595	520	465	420		
	1/240	***	***	***	***	***	670	465	340	260	205	170		

5. * Load limited by spot weld shear.

For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing.
*** Load controlled by 25,000 PSI design stress.

CHNL
P/N
FS-400

FS-401

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
7,350	6,765	6,240	5,555	4,750	3,260	2,265	1,665	****	****	****
14,420	13,965	13,420	12,805	12,130	10,655	9,090	7,540	6,070	4,800 ***** = K	3,890 L/R>200

1. COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.

2. ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.