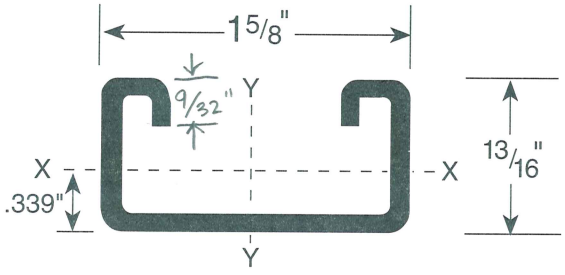
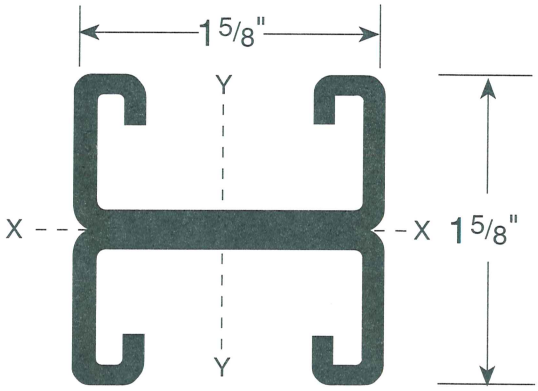
FS-500 • 13/16" CHANNEL • 14 Gauge

SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in^4	Sx in^3	Rx in	Iy in^4	Sy in^3	Ry in
FS-500	.99	.290	.025	.053	.295	.107	.132	.607
FS-501	1.98	.581	.117	.144	.449	.214	.263	.607

I = Moment of Inertia S = Section Modulus R = Radius of Gyration



FS-500 ACTUAL SIZE



FS-501 ACTUAL SIZE

CHANNEL FINISH: • PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR) • HOT-DIPPED GALVANIZED (HD) • ALUMINUM (AL) • STAINLESS (ST4) TYPE 304 • PVC COATED • STAINLESS (ST6) TYPE 316

STANDARD LENGTH: 20 FT. • 10 FT.

ALLOWABLE BEAM LOADS

Span In Inches

CHNL P/N		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-500	Stress	450	360	300	260	230	180	150	130	110	100	90
	1/240	450	270	190	140	110	70	50	35	30	20	17
FS-501	Stress	900	720	612	612	610	490	410	350	300	270	240
	1/240	900	720	612	612	480	310	210	160	120	100	80

1. TOTAL STATIC LOAD in LBS.
2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
4. Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.

ALLOWABLE COLUMN LOADS

Unsupported Height of Column in Inches

CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-500	4,723	4,040	3,200	2,480	1,990	1,370	1,000	*****	*****	*****	*****
FS-501	10,350	9,440	9,440	8,850	8,170	6,540	4,700	3,450	2,640	2,080	*****

***** = KL/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.