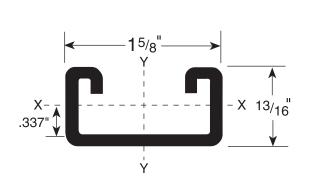
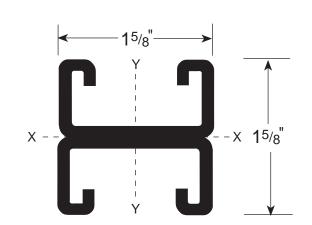


FS-520 • 13/16" CHANNEL • 12 Gauge

SECTION PROPERTIES				X-X AXIS		Y-Y AXIS			
CHNL	WT/FT	AREA	Ix	Sx	Rx	Iy	Sy	Ry	
P/N	LBS.	SQ. IN.	in ⁴	in^3	in	in ⁴	in^3	in	
FS-520	1.32	.375	.030	.062	.282	.140	.172	.600	
FS-521	2.64	.750	.145	.180	.435	.280	.345	.600	

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





FS-520

FS-521

CHANNEL FINISH: • PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR)

• HOT-DIPPED GALVANIZED (HD)

STANDARD LENGTH: 20 FT. • 10 FT.

> CHNL P/N

FS-520 Stress 1/240

FS-521

Stress 1/240

ALLOWABLE BEAM LOADS — Span In Inches

24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
530	420	350	300	260	210	175	150	130	120	105
500	320	220	160	125	80	55	40	30	25	20
1,245*	1,190	990	850	745	595	495	425	370	330	295
***	***	***	790	605	385	270	195	150	120	95

- 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.
- Upper line is how TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)
 Multiply values in upper line by 0.5 to obtain ALLOWABLE CENTER CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.

- 5. * Load limited by spot weld shear.
 6. *** Load controlled by 25,000 PSI design stress.

CHNL P/N FS-520 FS-521

24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
5,600	4,960	4,280	3,595	2,940	1,895	****	****	****	****	****
15,300	14,365	13,300	12,145	10,930	8,495	6,230	4,575	3,505	2,765 **** = K	**** L/R>200

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

(800) **FX-STRUT**

^{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.