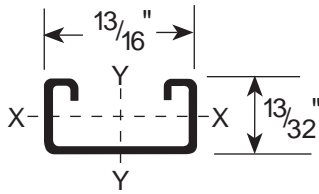
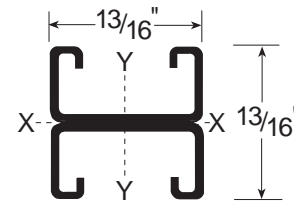


SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	I _x in ⁴	S _x in ³	R _x in	I _y in ⁴	S _y in ³	R _y in
FS-700	.24	.071	.002	.006	.144	.007	.016	.304
FS-701	.48	.141	.007	.016	.215	.013	.032	.304

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



FS-700



FS-701

CHANNEL FINISH: • PLAIN (PL) • GREEN (GR)

STANDARD LENGTH: 10 FT.

ALLOWABLE BEAM LOADS — Span In Inches

CHNL P/N		12"	18"	24"	30"	36"	42"	48"	60"	72"
FS-700	Stress	140	95	70	55	45	40	35	30	25
	1/240	135	60	35	20	15	10	8	5	5
FS-701	Stress	200*	190	145	115	95	80	70	55	50
	1/240	***	***	115	75	50	40	30	20	15

- TOTAL STATIC LOAD in LBS.
- Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.
- Lower line shows 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.
- * Load limited by spot weld shear.
- *** Load controlled by 25,000 PSI design stress.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

CHNL P/N		12"	18"	24"	30"	36"	42"	48"	60"	72"
FS-700		1,290	975	655	420	290	****	****	****	****
FS-701		2,930	2,610	2,185	1,740	1,320	970	745	475 **** = KL/R>200	****

- COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.
- ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.