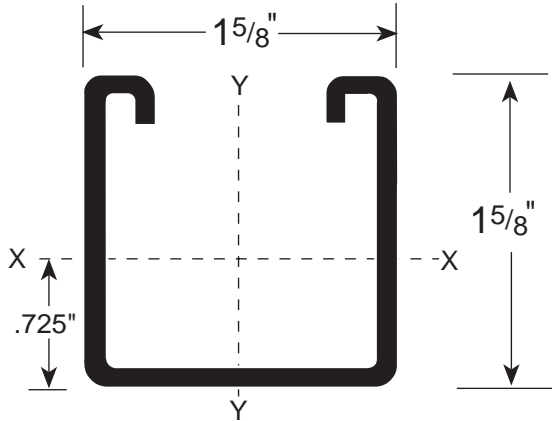


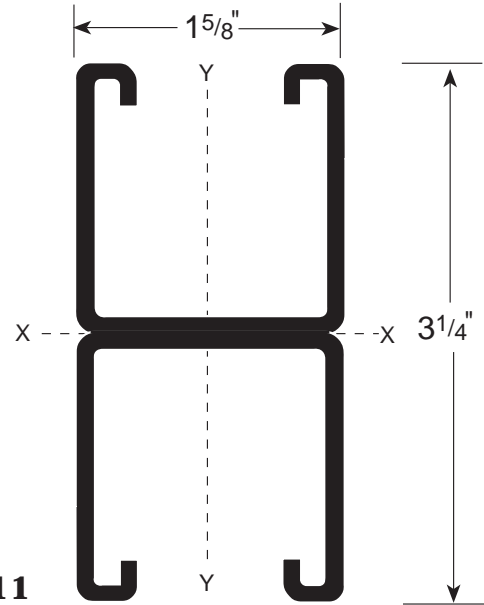
FS-210 • 1-5/8" CHANNEL • 14 Gauge

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-210	1.40	.412	.145	.161	.592	.180	.180	.661
FS-211	2.80	.824	.722	.444	.936	.361	.444	.661

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



FS-210



FS-211

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

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-210	Stress	1,340	1,070	900	770	670	540	450	380	340	300	270
	1/240	***	***	***	***	600	390	270	200	150	120	100
FS-211	Stress	2,180*	2,180*	2,180*	2,115	1,850	1,480	1,225	1,060	930	820	740
	1/240	***	***	***	***	***	***	***	980	750	590	480

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

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-210	6,600	5,845	5,090	4,385	3,745	2,715	2,100	1,720	1,460	1,270	1,125
FS-211	15,890	15,455	14,965	14,450	13,920	12,650	11,170	9,650	8,145	6,725	5,455

- 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.