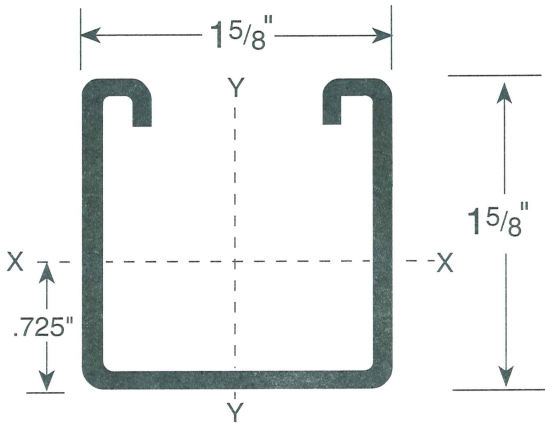


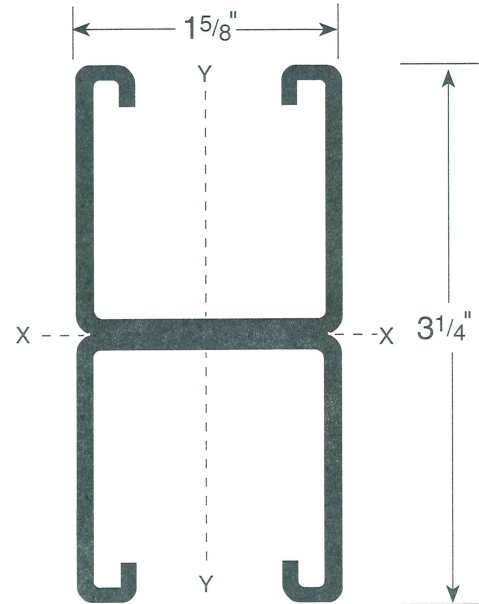
FS-210 • 1-5/8" CHANNEL • 14 Gauge

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 ACTUAL SIZE



FS-211 SCALED DOWN SIZE

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

STANDARD LENGTH: 20 FT. • 10 FT.

ALLOWABLE BEAM LOADS

CHNL P/N		Span In Inches										
		24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-210	Stress	1,350	1,080	900	770	680	540	450	386	340	300	270
	1/240	1,350	1,080	900	770	590	380	260	194	150	120	95
FS-211	Stress	2,700	2,160	1,800	1,540	1,360	1,250	1,250	1,070	940	830	750
	1/240	2,700	2,160	1,800	1,540	1,360	1,250	1,250	970	740	590	470

- 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.

ALLOWABLE COLUMN LOADS

CHNL P/N	Unsupported Height of Column in Inches										
	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-210	7,510	6,730	5,860	4,900	3,980	2,830	2,200	1,790	1,510	1,310	1,150
FS-211	16,250	15,350	14,640	13,850	13,100	11,800	10,770	9,880	8,090	6,390	5,170

- 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.

