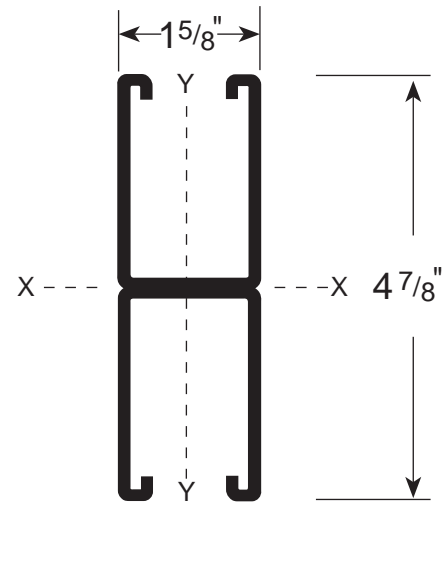
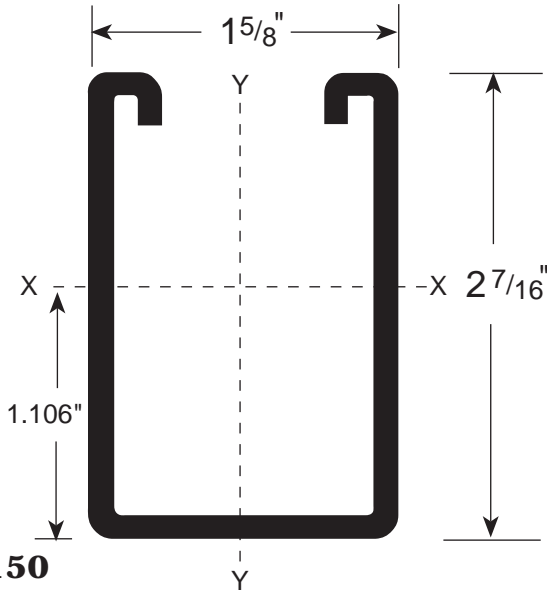


FS-150 • 2-7/16" CHANNEL • 12 Gauge

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-150	2.46	.723	.516	.388	.845	.333	.410	.679
FS-151	4.92	1.447	2.801	1.149	1.392	.666	.820	.679

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



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

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-150	Stress	3,230	2,580	2,150	1,850	1,620	1,290	1,080	920	810	720	650
	1/240	***	***	***	***	***	***	940	700	540	430	340
FS-151	Stress	3,800*	3,800*	3,800*	3,800*	3,800*	3,800*	3,190	2,740	2,390	2,130	1,920
	1/240	***	***	***	***	***	***	***	***	***	***	1,870

- 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-150	11,240	9,850	8,490	7,240	6,130	4,440	3,470	2,865	2,450	2,150	1,915
FS-151	28,010	27,375	26,600	25,700	24,695	22,440	19,965	17,390	14,825	12,375	10,110

- 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.