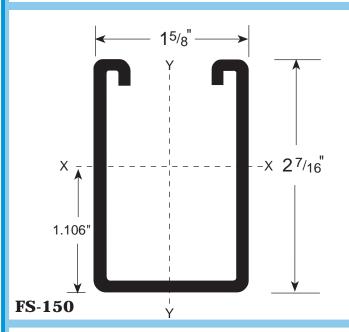
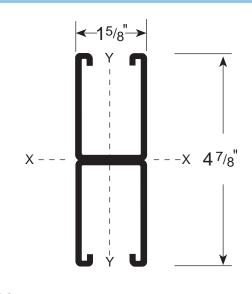
FS-150 • 2-7/16" CHANNEL • 12 Gauge



SECTION PROPERTIES				X-X AXIS		Y-Y AXIS			
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	Ix in ⁴	Sx in ³	Rx in	Iy in ⁴	Sy in ³	Ry 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	

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





FS-151

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

• HOT-DIPPED GALVANIZED (HD) • ALUMINUM (AL)

STANDARD LENGTH: 20 FT. • 10 FT.

> **CHNL** P/N

FS-150 Stress 1/240 FS-151 Stress

1/240

ALLOWABLE BEAM LOADS — Span In Inches

24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
3,230	2,580	2,150	1,850	1,620	1,290	1,080	920	810	720	650
***	***	***	***	***	***	940	700	540	430	340
3,800*	3,800*	3,800*	3,800*	3,800*	3,800*	3,190	2,740	2,390	2,130	1,920
***	***	***	***	***	***	***	***	***	***	1,870

- 2. Upper line is MAXIMUM ALLOWABLE UNIFORM LOAD creating 25,000 PSI Bending Stress about the X-Axis based on SIMPLE BEAM condition.

 3. Lower line shows TOTAL UNIFORM LOAD which produces a deflection of 1/240th of the SPAN, (i.e.; 1/2" Def. for 120" Span)

 4. 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. For punched channel, reduce weld limited loads by 0.75 due to 4" weld spacing. 7. *** Load controlled by 25,000 PSI design stress.

ALLOWARIE COLUMN LOADS

CHNL P/N FS-150 FS-151

ALLOWABLE COLUMN LOADS —							Unsupp	ortea H	eignt of C	olumn 1	mn in inches			
2	4"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"			
11,	,240	9,850	8,490	7,240	6,130	4,440	3,470	2,865	2.450	2,150	1,915			
28,	,010	27,375	26,600	25,700	24,695	22,440	19,965	17,390	14,825	12,375	10,110			

- 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.