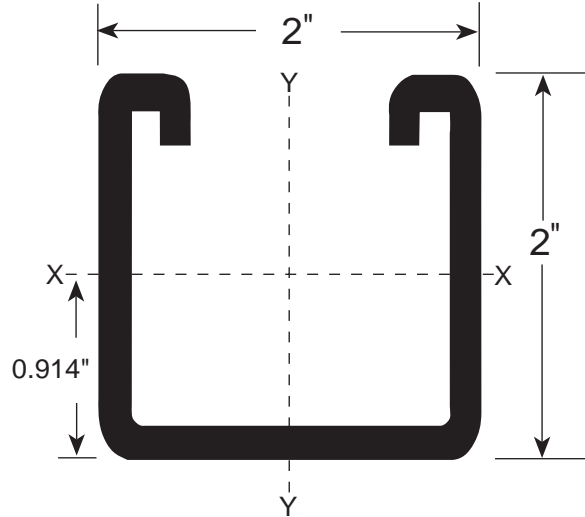


SECTION PROPERTIES			X-X AXIS			Y-Y AXIS		
CHNL P/N	WT/FT LBS.	AREA SQ. IN.	I _x in ⁴	S _x in ³	R _x in	I _y in ⁴	S _y in ³	R _y in
FS-280	3.10	.912	.476	.438	.723	.569	.569	.790

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



FS-280

CHANNEL FINISH:

- PLAIN (PL)
- HOT-DIPPED GALVANIZED (HD)

STANDARD LENGTH: 20 FT. • 10 FT.

CHNL P/N

ALLOWABLE BEAM LOADS — Span In Inches

FS-280

Stress 1/240

24"	36"	48"	60"	72"	84"	96"	108"	120"	132"	144"	156"	180"
3,650	2,440	1,830	1,460	1,220	1,040	910	810	730	660	610	560	490
***	***	***	1,270	880	650	500	390	320	260	220	190	140

1. TOTAL STATIC LOAD in LBS.
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 controlled by 25,000 PSI design stress.

CHNL P/N

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

FS-280

24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
16,320	15,055	13,765	12,520	11,350	9,300	7,635	6,315	5,385	4,690	4,135

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.