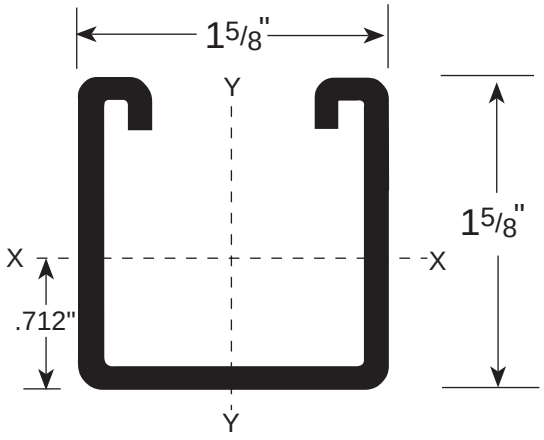
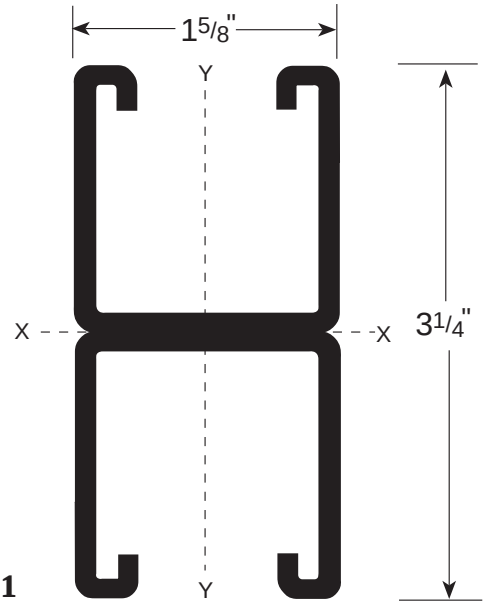
FS-200 • 1-5/8" CHANNEL • 12 Gauge

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-200	1.88	.553	.182	.199	.574	.234	.289	.651
FS-201	3.76	1.105	.925	.569	.915	.469	.577	.651

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



FS-200



FS-201

CHANNEL FINISH:
- **PLAIN (PL)** • **PRE-GALVANIZED (PG)** • **GREEN (GR)**
- **HOT-DIPPED GALVANIZED (HD)** • **ALUMINUM (AL)** • **STAINLESS (ST4) TYPE 304**
- **PVC Coated** • **STAINLESS (ST6) TYPE 316**

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-200	Stress 1/240	1,660 ***	1,330 ***	1,110 ***	950 ***	830 760	660 490	550 340	480 250	420 190	370 150	330 120
FS-201	Stress 1/240	2,550* ***	2,550* ***	2,550* ***	2,550* ***	2,370 ***	1,900 ***	1,580 ***	1,360 1,260	1,190 960	1,050 760	950 620

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 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.

ALLOWABLE COLUMN LOADS — Unsupported Height of Column in Inches

CHNL P/N	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
FS-200	9,050	8,090	7,185	6,370	5,650	4,470	3,615	3,040	2,615	2,285	2,015
FS-201	21,995	21,445	20,840	20,045	19,170	17,220	15,105	12,940	10,820	8,820	7,145

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.