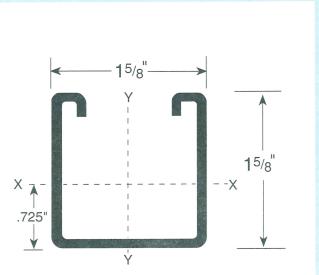
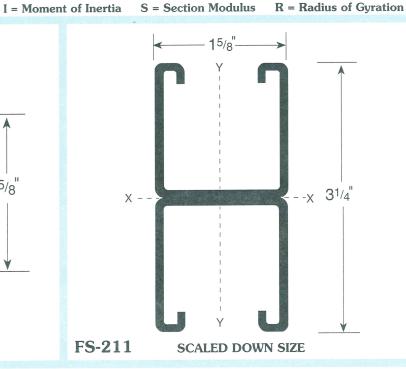
FS-210 · 1-5/8" CHANNEL · 14 Gauge



| SECTIO | N PROPE | RTIES | | X-X AXIS | 1999C440146.5440/4.040464544.44467. | Y-Y AXIS | | | |
|------------------|---------------|-----------------|-----------------------|------------------------------|-------------------------------------|---------------------------|------------------------------|------------------|--|
| CHNL P/N | WT/FT LBS. | AREA SQ. IN. | Ix in ⁴ | Sx in ³ | R x in | ly in ⁴ | Sy in ³ | R y in | |
| FS-210 FS-211 | 1.40 2.80 | .412 .824 | .145 .722 | .161 .444 | .592 .936 | .180 .361 | .180 .444 | .661 .661 | |





FS-210

ACTUAL SIZE

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

HOT-DIPPED GALVANIZED (HD)

STANDARD LENGTH: 20 FT. · 10 FT.

ALLOWABLE BEAM LOADS Span In Inches

| CHNL P/N | |
|-------------|-----------------|
| FS-210 | Stress 1/240 |
| FS-211 | Stress 1/240 |

| 24" | 30" | 36" | 42" | 48" | 60" | 72" | 84" | 96" | 108" | 120" | |
|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|------|--|
| 1,350 | 1,080 | 900 | 770 | 680 | 540 | 450 | 386 | 340 | 300 | 270 | |
| 1,350 | 1,080 | 900 | 770 | 590 | 380 | 260 | 194 | 150 | 120 | 95 | |
| 2,700 | 2,160 | 1,800 | 1,540 | 1,360 | 1,250 | 1,250 | 1,070 | 940 | 830 | 750 | |
| 2,700 | 2,160 | 1,800 | 1,540 | 1,360 | 1,250 | 1,250 | 970 | 740 | 590 | 470 | |
| | | | | | | | | | | | |

^{1.} TOTAL STATIC LOAD in LBS.

ALLOWABLE COLUMN LOADS Unsupported Height of Column in Inches

CHNL P/N FS-210 FS-211

| 24" | 30" | 36" | 42" | 48" | 60" | 72" | 84" | 96" | 108" | 120" |
|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 7,510 | 6,730 | 5,860 | 4,900 | 3,980 | 2,830 | 2,200 | 1,790 | 1,510 | 1,310 | 1,150 |
| 16,250 | 15,350 | 14,640 | 13,850 | 13,100 | 11,800 | 10,770 | 9,880 | 8,090 | 6,390 | 5,170 |

 $^{1.\,}$ COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.

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

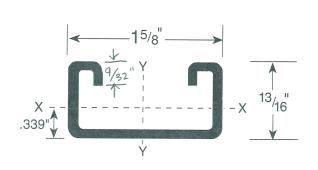
CONCENTRATED LOAD at 25,000 PSI Stress. Deflection by 0.8.

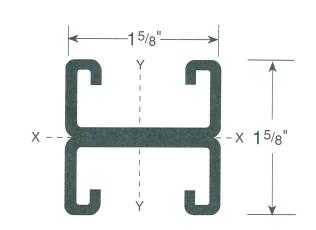
^{2.} ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions



$FS\text{-}500 \cdot 13/16 \text{" CHANNEL} \cdot 14 \text{ Gauge}$

| SECTION PROPERTIES | | | | X-X AXIS | | Y-Y AXIS | | | |
|--------------------|-------|---------|-----------------|------------------|-------------|-----------------|------------------------|------|--|
| CHNL | WT/FT | AREA | Ix | Sx | Rx | Iy | Sy | Ry | |
| P/N | LBS. | SQ. IN. | in ⁴ | in^3 | in | in ⁴ | in ³ | in | |
| FS-500 | .99 | .290 | .025 | .053 | .295 | .107 | .132 | .607 | |
| FS-501 | 1.98 | .581 | .117 | .144 | .449 | .214 | .263 | .607 | |
| | | | I = Mc | oment of Inertia | S = Section | n Modulus | R = Radius of Guration | | |





FS-500

ACTUAL SIZE

FS-501

ACTUAL SIZE

CHANNEL FINISH:

• PLAIN (PL) • PRE-GALVANIZED (PG) • GREEN (GR)

· HOT-DIPPED GALVANIZED (HD) · ALUMINUM (AL) · STAINLESS (ST4) TYPE 304

STAINLESS (ST6) TYPE 316

PVC COATED

STANDARD LENGTH: 20 FT. · 10 FT.

> Stress 1/240

ALLOWABLE BEAM LOADS

CHNL P/N

FS-500

FS-501 Stress 1/240

| Span in inches | | | | | | | | | | | | |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|--|--|
| 24" | 30" | 36" | 42" | 48" | 60" | 72" | 84" | 96" | 108" | 120" | | |
| 450 | 360 | 300 | 260 | 230 | 180 | 150 | 130 | 110 | 100 | 90 | | |
| 450 | 270 | 190 | 140 | 110 | 70 | 50 | 35 | 30 | 20 | 17 | | |
| 900 | 720 | 612 | 612 | 610 | 490 | 410 | 350 | 300 | 270 | 240 | | |
| 900 | 720 | 612 | 612 | 480 | 310 | 210 | 160 | 120 | 100 | 80 | | |

- 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.

ALLOWABLE COLUMN LOADS Unsupported Height of Column in Inches

CHNL P/N FS-500

FS-501

| 24" | 30" | 36" | 42" | 48" | 60" | 72" | 84" | 96" | 108" | 120" | | | | |
|--------|-------|-------|-------|-------|-------|-------|----------------|-------|------------------|-----------------|--|--|--|--|
| 4,723 | 4,040 | 3,200 | 2,480 | 1,990 | 1,370 | 1,000 | और और और और और | **** | **** | afe afe afe afe | | | | |
| 10,350 | 9,440 | 9,440 | 8,850 | 8,170 | 6,540 | 4,700 | 3,450 | 2,640 | 2,080 | 非非非非非 | | | | |
| | | | | | | | | | ***** = KL/R>200 | | | | | |

^{1.} COLUMN LOADS are allowable axial loads applied at the section centroid. Loads applied at the slot face must be reduced for Eccentricity.

(800) FX-STRUT

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.

^{2.} ALLOWABLE COLUMN LOADS shown are based upon an effective length factor K = 0.8 standard engineering practice required for evaluation of other conditions.